

PROFESSIONAL TRAINING REPORT

Submitted in partial fulfillment of the requirements for the award of
Master of Architecture degree in Sustainable Architecture

by

A S SAI SARANYA 40890014



**SCHOOL OF BUILDING AND ENVIRONMENT
DEPARTMENT OF ARCHITECTURE**

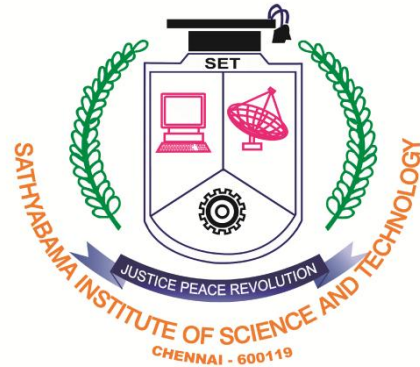
SATHYABAMA

**INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)**

Accredited with Grade "A" by NAAC

JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI - 600 119

JAN 2022



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PHONE: 2450 1443/9941912481 INTERNET: www.sathyabama.ac.in

E-mail: archhod@sathyabama.ac.in



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

**PROFESSIONAL TRAINING PORTFOLIO (S89A PT)
JAN 2022**

Name of the Student : A S SAI SARANYA

Semester : III

Batch : 2020-2022

Reg No. : 40890014



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SCHOOL OF BUILDING AND ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

M. Arch (Sustainable Architecture)

BONAFIDE CERTIFICATE

This is to certify that the professional training (S89A PT) is the work of A S SAI SARANYA 40890014 who had undergone training in THE LIVING HOUSE STUDIO and has been monitored by the continuous assessment during **Dec 2021 to Jan 2022.**

DR.DEVYANI GANGOPADHYAY

DEAN,

School of Building and
Environment

Department of Architecture

Submitted for Viva voce Examination held on 05- Feb- 2022

Internal Examiner

External Examiner



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E-mail: archhod@sathyabama.ac.in



DECLARATION

I A S SAI SARANYA hereby declare that the Professional Training Report **6th DEC 2021 – 13th JAN 2022** done by me under the guidance of **Ar. AJAY NITYANANDA** is submitted in partial fulfillment of the requirements for the completion of practical training session.

DATE : 13th January 2022

PLACE : Tiruvannamalai

SIGNATURE OF CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to Board of Management of **SATHYABAMA** 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 and Head of Department , School of building and Environment, Dept. of architecture for providing me necessary support and details at the right time during the progressive training session.

I would like to express my sincere and deep sense of gratitude to **Ar. AJAY NITYANANDA, CHIEF ARCHITECT, THE LIVING HOUSE STUDIO** for his valuable guidance, suggestions and constant encouragement paved way for the successful completion of my project work. My sincere thanks to **Ar. Sheetal Amraotkar** Professional Training Coordinator for her motivation and guidance.

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.

And I would also like to express my gratitude to my friend and well wisher **Ar Sree Hari (Chief Architect, MAKING MUD MATTER)** who helped me during my professional training period in guiding the office and site works.



proliferating
human-scale
eco-conscious
architecture
since 2007

20.10.2021

To Head of the Department,
Sathyabama College of Architecture,
Chennai

This is to state that A S Sai Saranya (Post Grad student of architecture) has been selected for an internship in my office in Tiruvannamalai (Tamil Nadu) for the extent of her training/ research period.

Sincerely,

Ajay Nityananda
B.Arch (IIT Kharagpur), M.F.A (University of Texas at Austin)
(Architect and Builder)

ajay nityananda | ajay@thelivinghouse.info | +91-9626481686
Thiruvannamalai/Auroville, Tamil Nadu, India | <http://www.thelivinghouse.info/projects>



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architecture
since 2007

16.01.2022

To Head of the Department,
College of Architecture, Sathyabama College,
Chennai.

This is to state that SAI SARANYA A S (40890014) (M.Arch student of architecture) at your esteemed college has completed working at our firm, The Living House Design Studio, over the past 1 month.

She has successfully completed the requirements of her practical training.

She has worked on the following projects

1. Guest House for The Vilvam Foundation, Tiruvannamalai
2. Residence for Bharath and Shanti, Tiruvannamalai
3. Residence for Ramanan, Tiruvannamalai

She has been involved in

1. Documentation
2. Site Supervision
3. Interfacing with Clients
4. Interfacing with Labour
5. Detail Drawings

I wish her best of luck in her future endeavours.

Sincerely,



The Living House Design and Do
proliferating human-scale eco-conscious
architecture since 2007
Ajay Nityananda B.Arch, M.F.A
Thiruvannamalai/Auroville
+91 9626481686
<http://www.thelivinghouse.info>

Ajay Nityananda B.Arch M.F.A
(Architect and Builder)

ajay nityananda | ajay@thelivinghouse.info | +91-9626481686
Thiruvannamalai/Auroville, Tamil Nadu, India | <http://www.thelivinghouse.info/projects>

JOINING AND COMPLETION LETTER

A S SAI SARANYA
40890014 | 205895002
M.Arch
SUSTAINABLE ARCHITECTURE

PROFESSIONAL TRAINING
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DEPARTMENT OF ARCHITECTURE M. Arch (Building management)

Continuous Assessment Report for Professional training

(Continuous progress report of the trainee architect/Project Manager for the period of 30 working days in the office to be submitted to HOD by the Trainee attending the training session)

1. Name of the office / organization : THE LIVING HOUSE STUDIO

2. Address & Contact Number : TIRUVANNAMALAI, 9626481686

3. Name of the student : A S SAI SARANYA

4. Duration : From 06/12/2021 To 11/12/2021

5. Total No. of days : 06

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; which will be converted to the allotted 200 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture and methodology	✓				
Active Participation in the Project activities	✓				
Documentation and tracking of project		✓			
Presentation Skills developed					✓
Understanding of construction details & techniques		✓			
Participation and contribution in project meetings		✓			
Understanding of codes and standards		✓			
Schedule preparation & tracking activities		✓			
Preparation / Management of drawings		✓			
Learning / Application of software in Projects					✓
Preparation of concept for projects					✓
Site Management / Discussion with clients		✓			
Overall Grading*	A				

(A - 8.0, B - 7.0, C - 6.0, D - 5.5, E - 5.0, F - <5)

7. Any other Remarks :

8. Signature of the
Head of the Office /
Organization (With Seal)

[Signature]
The Living House

Mr. Nityasundar S. Arch, B.A.
Jepplaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.
9626481686
nityasundar

WEEKLY REPORT

DEPARTMENT OF ARCHITECTURE M. Arch (Building management)

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1. Name of the office / organization : THE LIVING HOUSE STUDIO

2. Address & Contact Number : TIRUVANNAMALAI, 9626481686

3. Name of the student : A S SAI SARANYA

4. Duration : From 13/12/2021 To 18/12/2021

5. Total No. of days : 06

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; which will be converted to the allotted 200 marks by the department.

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Organization (With Seal)

[Signature]
The Living House

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Jepplaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.
9626481686
nityasundar

A S SAI SARANYA
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1. Name of the office / organization : THE LIVING HOUSE STUDIO

2. Address & Contact Number : TIRUVANNAMALAI, 9626481686

3. Name of the student : A S SAI SARANYA

4. Duration : From 20/12/2021 To 24/12/2021

5. Total No. of days : 05

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; which will be converted to the allotted 200 marks by the department.

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Head of the Office /
Organization (With Seal)

[Signature]



the living house design & co-architects
premier living house-scale eco-council
architecture since 2007
Jay Nityananda S. Arch, M.A.
Tiruvannamalai/Auroville
91 9626481686
the living house

DEPARTMENT OF ARCHITECTURE M. Arch (Building management)

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1. Name of the office / organization : THE LIVING HOUSE STUDIO

2. Address & Contact Number : TIRUVANNAMALAI, 9626481686

3. Name of the student : A S SAI SARANYA

4. Duration : From 27/12/2021 To 31/12/2021

5. Total No. of days : 05

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; which will be converted to the allotted 200 marks by the department.

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WEEKLY REPORT

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1. Name of the office / organization : THE LIVING HOUSE STUDIO

2. Address & Contact Number : TIRUVANNAMALAI, 9626481686

3. Name of the student : A S SAI SARANYA

4. Duration : From 03/01/2022 To 08/01/2022

5. Total No. of days : 06

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; which will be converted to the allotted 200 marks by the department.

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[Signature]
The Living House Studio
No. 11, Thiruvannamalai/Auroville
Pin: 602048
Mob: 9626481686



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2. Address & Contact Number : TIRUVANNAMALAI, 9626481686

3. Name of the student : A S SAI SARANYA

4. Duration : From 10/01/2022 To 13/01/2022

5. Total No. of days : 04

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; which will be converted to the allotted 200 marks by the department.

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[Signature]
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Pin: 602048
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WEEKLY REPORT

A S SAI SARANYA
40890014 | 205895002
M.Arch
SUSTAINABLE ARCHITECTURE

PROFESSIONAL TRAINING
REPORT

	DATE	PROJECT NAME	WORK DONE
WEEK - 1 {	06-12-21	All projects	Site Visit
	07/12/2021 and 08/12/2021	Guest House -2	Landscape marking
	09/12/2021 and 10/12/2021	Guest House -1	Bamboo fencing
	10-12-21	Ramya House	Oxide flooring and Athangudi flooring marking
	11-12-21	Vilvam foundation	Site Visit
WEEK - 2 {	13-12-21	Residence for Bharat and shanthi	Counter top casting- on site
	14-12-21	Residence for Ramanan	Electrical layout I.O
	15-12-21	Residence for Bharat and shanthi	Plumbing corrections, tile marking and layout
	16/12/2021 to 18/12/2021	Residence for Bharat and shanthi	Bathroom tile layout drawing, marking on site and client meeting
	20-12-21	Guest House -1	Bamboo fencing painting
WEEK - 3 {	21-12-21	Guest House -2	Interior supervising
	22/12/2021 and 23/12/2021	Guest House -2	Landscape finishing
	24-12-21	Residence for Bharat and shanthi	Bathroom tile finishing, flooring slope marking
WEEK - 4 {	27-12-2021 and 28/12/2021	Residence for Bharat and shanthi	Athangudi tile marking and laying
	29/12/2021 to 31/12/2021	Residence for Bharat and shanthi	Oxide mixing workshop and athangudi tiles techniques
WEEK - 5 {	03/01/2022 to 05/01/2022	Residence for Bharat and shanthi	Service layout and landscape drawing
	06/01/2022 to 08/01/2022	Residence for Ramanan	Reinforcement, electrical work installation and concreting
WEEK - 6 {	10/01/2022 to 13/01/2022	Residence for Bharat and shanthi	Kitchen cabinets and loft elevation drawings for interior designer meeting.



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architecture since 2007

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<http://www.thelivinghouse.info>

WORK DIARY

A S SAI SARANYA
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M.Arch
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PROFESSIONAL TRAINING
REPORT

TABLE OF CONTENTS

CHAPTER NO	TITLE	PAGE NO
1.	ABOUT THE FIRM	1
2.	WEEK-1 SITE VISIT	2
3.	WEEK-1 HANDS ON WORK	7
4.	WEEK-2 RESIDENCE FOR BHARAT AND SHANTHI	8
5.	WEEK-2 RESIDENCE FOR BHARAT AND RAMANAN	9
6.	WEEK-3 GUEST HOUSE 1 AND 2	10
7.	WEEK-4 RESIDENCE FOR BHARAT AND SHANTHI	11
8.	WEEK-5 RESIDENCE FOR BHARAT AND SHANTHI	12
9.	WEEK-5 RESIDENCE FOR RAMANAN	14
10.	WEEK-6 RESIDENCE FOR BHARAT AND SHANTHI	14
11.	OVERVIEW	16

Essence . . .



The living house design studio is an architectural firm proliferating human-scale, eco-conscious architecture since 2007.

It was started by Ar. Ajay Nityananda towards his vision of making architecture with mud, stressfree architect- client relationship and in architectural vision that connects natural material, on-site processing, human expertise and work, with products of a unique and substantially hand-made character.

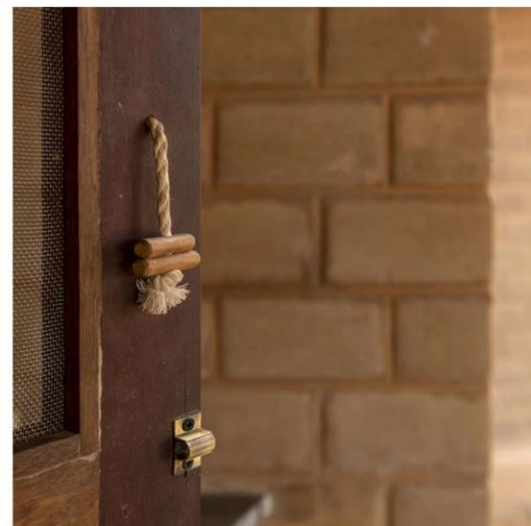
And also he is someone who believes that manifesting this vision takes time, patience, money, expertise, willingness to experiment and desire.



There are several other projects in Auroville, chennai, Bangalore and tiruvannamalai which stand as a of uniqueness for its materials and construction techniques.

SERVICES

The Living house design studio offer a closed ranfge of services such as architectural planning, interiors, landscap designing, retrofitting, restoration, material experimenting, an intro to new construction techniques etc.



ABOUT THE FIRM

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WEEK-1

PROJECTS :

- Guest house-1
- Guest house-2
- Ramya House
- Raghu House
- Vilvam Foundation
- Residence for Bharat and Shanthi
- Residence for Ramanan

Initial week was case and site visits to explore the type of work done and ongoing works. On site construction techniques were done and hands-on was conducted in order to understand the materials sourced and used.

GUEST HOUSE-1



Exterior view



Bathroom with mud plastering walls and tandoor stone flooring.



Fillers slab throughout the house



Slope roof - where calcium silicate boards are used as base, on which terracotta tiles are laid.

GUEST HOUSE-2



Living area- oxide flooring, mud plastering walls and thinnai concept.



Skylight with slope roof (terracotta)



On site carpentring work, with Kali marudhi wood, palakatu vengai wood (available only in kerala)



Fillers slab ceiling, on-site casted exposed concrete counter top and mud plastered walls.

WORKS DONE

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WEEK-1

PROJECTS :

- Guest house-1
- Guest house-2
- Ramya House
- Raghu House
- Vilvam Foundation
- Residence for Bharat and Shanthi
- Residence for Ramanan

RAMYA HOUSE



Ramya house is a fusion of mud and conventional architecture, it is a G+1 residence, designed with mud walls and mud plaster finishing along with a central skylight. They have used different materials such as oxide flooring, athangudi tiles, tandoor stones and kadappa stones. And also infused with thinnai concept in Living with slope roof with terracotta tiles.

RAGHU HOUSE



Raghu's house is a house with thinnai and G+1 structure, which has re-used the wooden-stone pillar from pondicherry. They have mud plastering, oxide floors and walls, used tandoor stone for flooring. They have also used slope roof with Calcium silicate boards as base along with terracotta tiles.

WORKS DONE

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WEEK-1

PROJECTS :

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- Raghu House
- Vilvam Foundation
- Residence for Bharat and Shanthi
- Residence for Ramanan



Bathroom with CSEB walls and mud plaster finish, landscape with random rubble and tandoor stone.



VILVAM FOUNDATION - Wild Ideas



A Rural Livelihood Project, Wild Ideas came into being in 2014 in rural Tiruvannamalai, Tamil Nadu, with just two women from two villages. In the following six years, the number of women has grown to close to a hundred from 15 villages surrounding Tiruvannamalai. Though from disadvantaged backgrounds, their desire to stand on their own feet, become financially independent and live a life of dignity has been the inspiration and impetus behind the Wild Ideas story and brand – a brand that stands for resilience & transformation; for sustainable living; for reviving traditional recipes; for fair trade.



Raw wooden tree logs used as pillars on stone base.



Jack arch roof is composed of arches of brick, supported on lower flange of R.S.J.s. The joists are spaced 1.0 to 1.5 m centre to centre, and are supported at their ends either on walls or on longitudinal girders. The rise of the arch is kept 1/12th of the span.



Bamboo blinds covered for restricting heat and excess light.

WORKS DONE

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WEEK-1

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- Raghu House
- Vilvam Foundation
- Residence for Bharat and Shanthi
- Residence for Ramanan

RESIDENCE FOR BHARAT & SHANTHI



(ON - GOING)

RESIDENCE FOR RAMANAN



WORKS DONE

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WEEK- I

Guest house - Bamboo fencing



Hands on work, bamboo fencing and compound gate which initially works on "tension" with horizontal members which is then drilled and screwed.

The bamboo vertical and horizontal members are sourced, treated in boric acid, planned - installed and fixed on site. (Trial and error)

And then is painted.



WORKS DONE

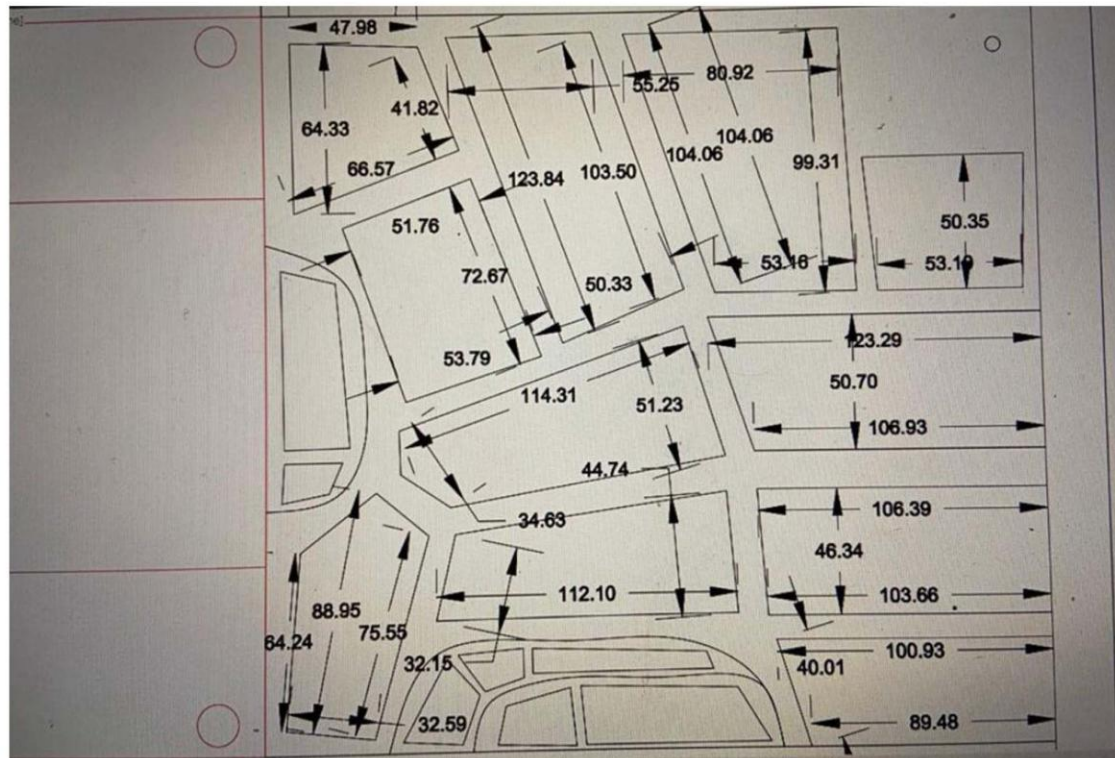
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REPORT

WEEK-1

HANDS-ON WORK

Guest house 2 - Landscape marking



Front Area of Guest house-2

Designing was done according to the site and context. With materials specified by the clients.



WORKS DONE

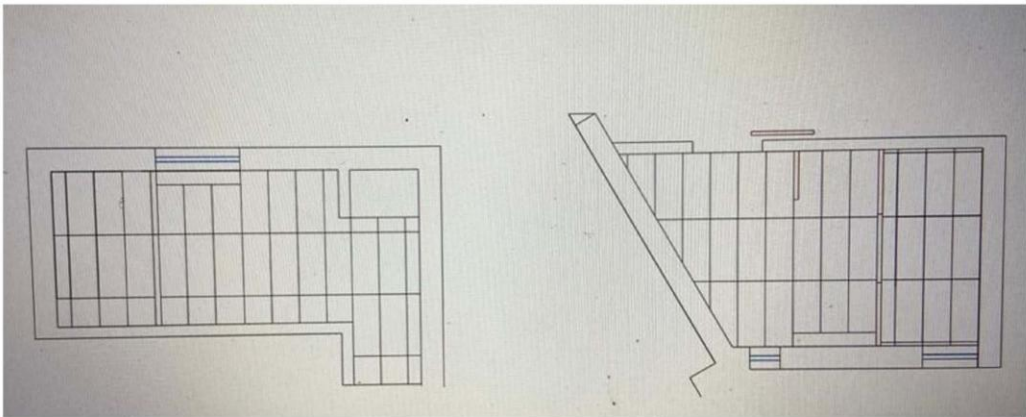
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REPORT

WEEK-2

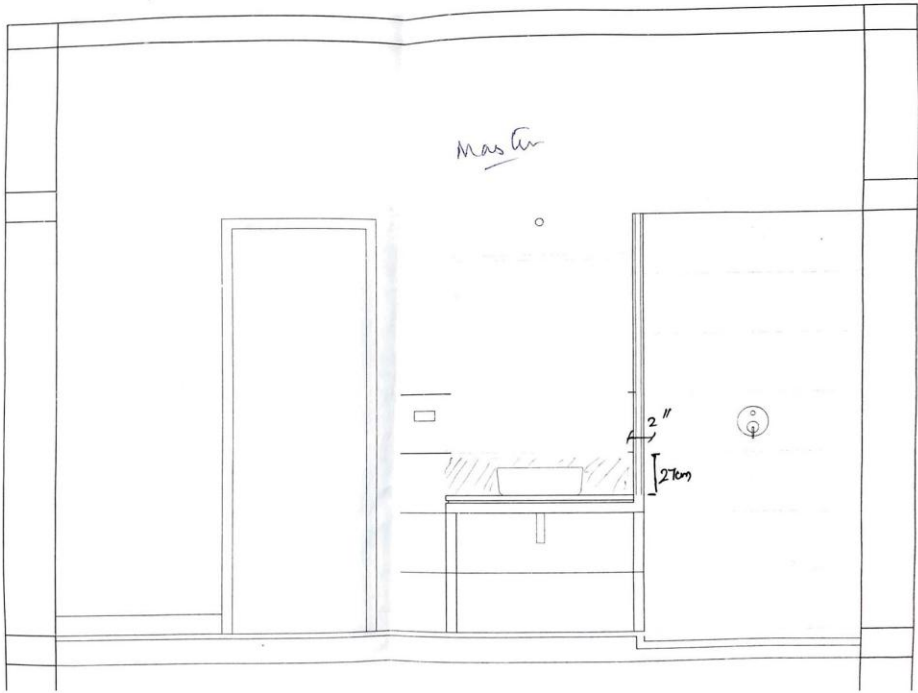
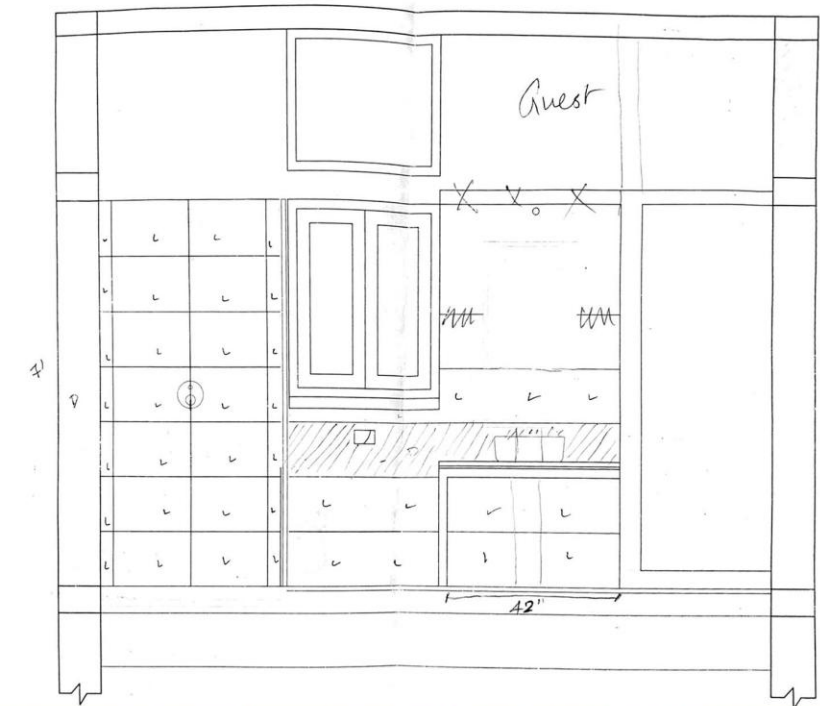
Residence for Bharat and Shanthi

DATE	PROJECT NAME	WORK DONE
13-12-21	Residence for Bharat and shanthi	Counter top casting- on site
14-12-21	Residence for Ramanan	Electrical layout I.O
15-12-21	Residence for Bharat and shanthi	Plumbing corrections, tile marking and layout
16/12/2021 to 18/12/2021	Residence for Bharat and shanthi	Bathroom tile layout drawing, marking on site and client meeting



Bathroom flooring - tile layout

Half/ dwarf wall and wash basin counter on-site casting



Master bedroom bathroom
and
Guest bedroom bathroom
- fixture detailing,
- tiles layout
and
- site marking.

WORKS DONE

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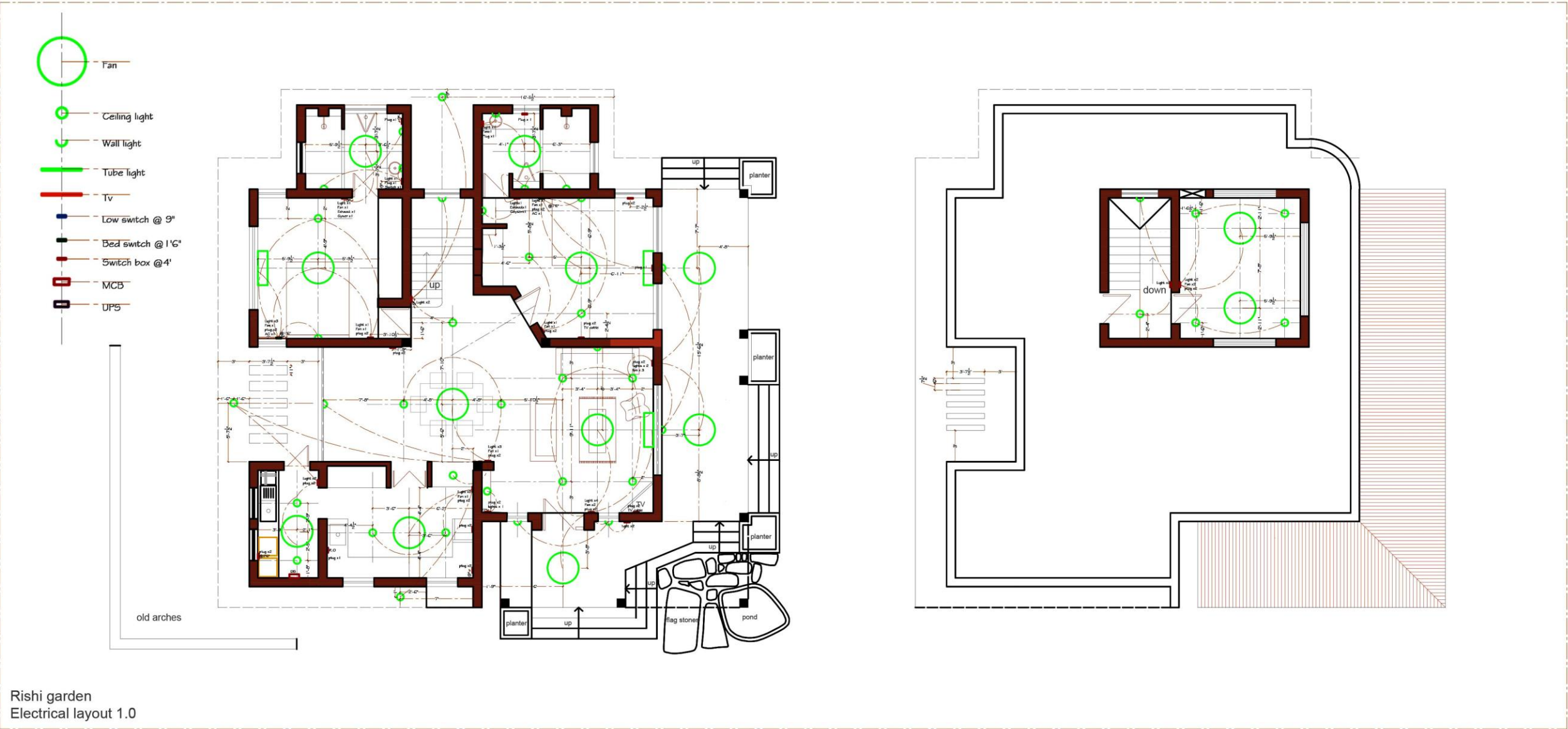
WEEK-2

Residence for Ramanan

DATE	PROJECT NAME	WORK DONE
13-12-21	Residence for Bharat and shanthi	Counter top casting- on site
14-12-21	Residence for Ramanan	Electrical layout 1.0
15-12-21	Residence for Bharat and shanthi	Plumbing corrections, tile marking and layout
16/12/2021 to 18/12/2021	Residence for Bharat and shanthi	Bathroom tile layout drawing, marking on site and client meeting

The electrical layout was done based on central line, linear alignment to the openings or doors or windows.

Further carried out after the client meeting and their requirements.



WORKS DONE

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WEEK - 3

DATE	PROJECT NAME	WORK DONE
20-12-21	Guest House - 1	Bamboo fencing painting
21-12-21	Guest House - 2	Interior supervising
22/12/2021 and 23/12/2021	Guest House - 2	Landscape finishing
24-12-21	Residence for Bharat and shanthi	Bathroom tile finishing, flooring slope marking

Guest house-2 (interiors supervising)



Oxide mixing according to ratios



Oxide skirting and border (patti)



Oxide flooring

Guest house-1 (Bamboo fencing painting)



Painted using epoxy paint to prevent from termites or insects and climate.

Residence for Bharat and Shanthi

Bathroom tile marking and flooring marking



WORKS DONE

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WEEK - 4

DATE	PROJECT NAME	WORK DONE
27-12-2021 and 28/12/2021	Residence for Bharat and shanthi	Athangudi tile marking and laying
29/12/2021 to 31/12/2021	Residence for Bharat and shanthi	Oxide mixing workshop and athangudi tiles techniques

Residence for Bharat and Shanthi
Athangudi tile marking and laying



Athangudi tiles sourced from Athangudi village



Gaps filling after 3 days from laying using oxide powder with white cement.



Marking and laying of Athangudi tiles by skilled men from Karaikudi.

Residence for Bharat and Shanthi
Oxide flooring and techniques workshop



Mixing of oxide colour, white cement and grey cement.

Paste made with water

Samples to match the tiles



Samples tried with different ratios and colours

WORKS DONE

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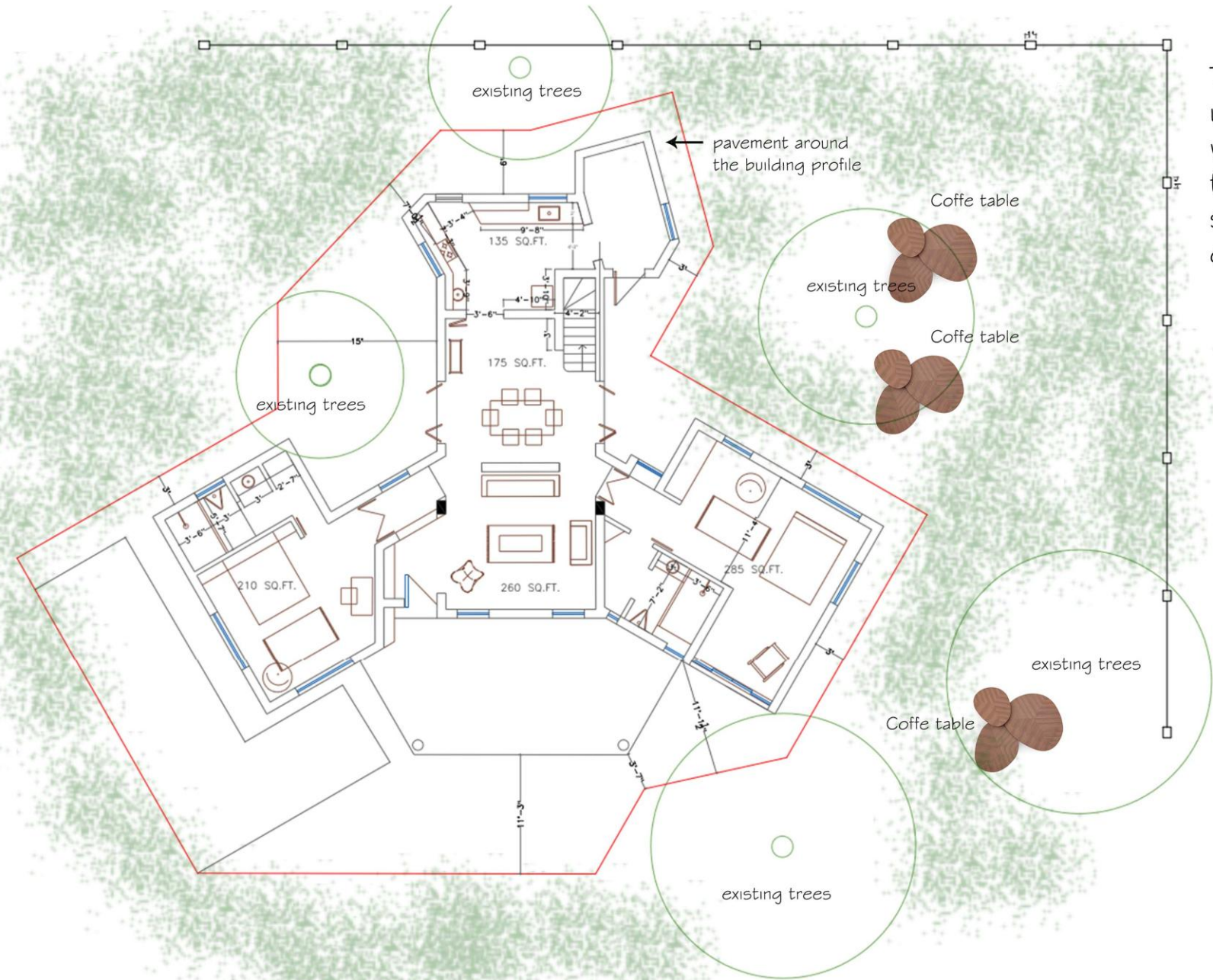


WEEK - 5

Residence for Bharat and Shanthi
Service layout and landscape drawing

DATE	PROJECT NAME	WORK DONE
03/01/2022 to 05/01/2022	Residence for Bharat and shanthi	Service layout and landscape drawing
06/01/2022 to 08/01/2022	Residence for Ramanan	Reinforcement, electrical work installation and concreting

Landscape was planned and designed based on client’s requirements and desires. And also the trees on site are retained and surrounding which the seating, design elements, add-on vegetation etc are included.



The furniture is designed and will be executed on site using old wood sourced from old buildings, which will be further examined about the age of the wood, type of the wood, treated, checked if any damage, strength is examined, if in case of any damage or crack is stuck with ardalite.



On-site work

WORKS DONE

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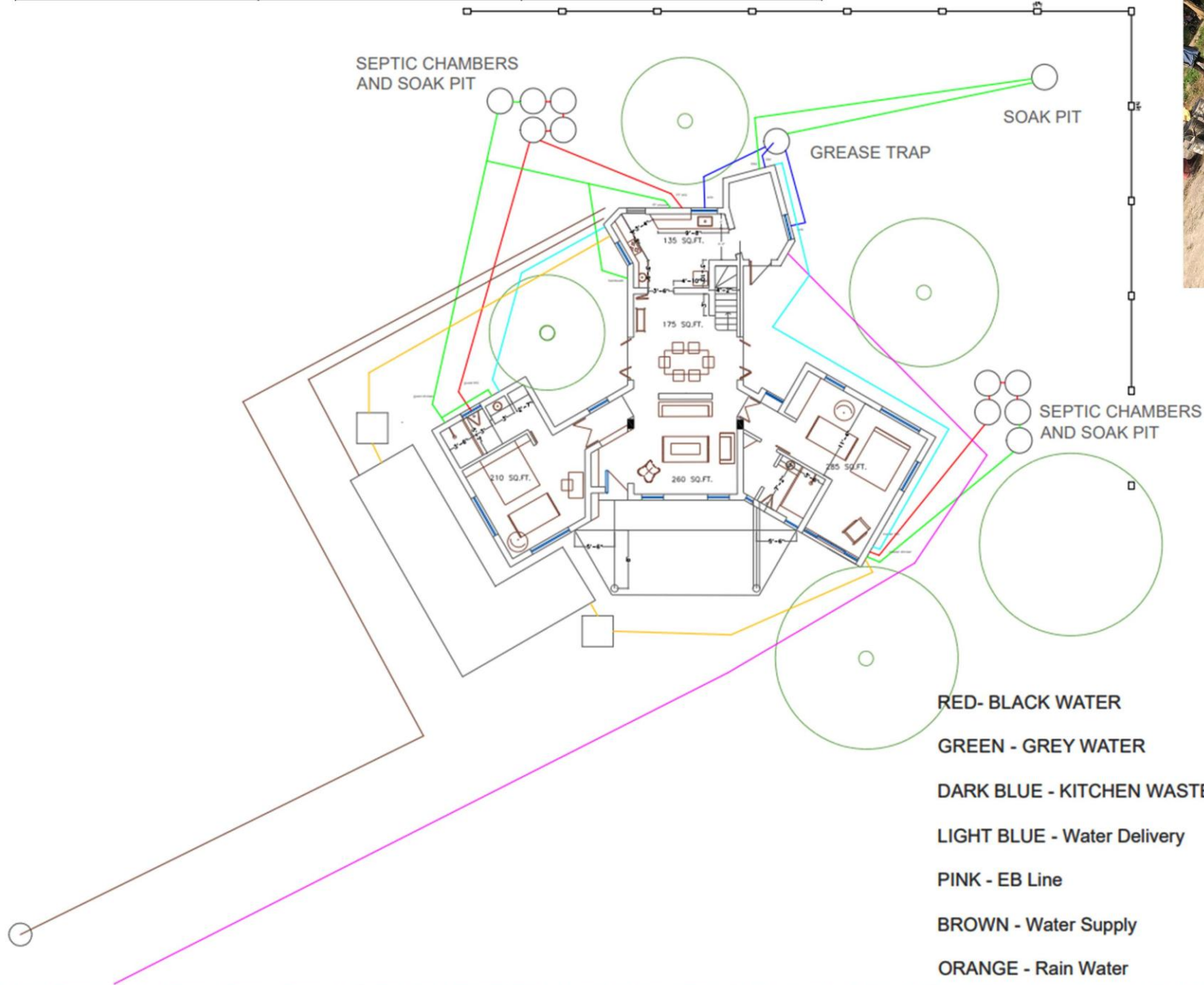


WEEK - 5

Residence for Bharat and Shanthi
Service layout

DATE	PROJECT NAME	WORK DONE
03/01/2022 to 05/01/2022	Residence for Bharat and shanthi	Service layout and landscape drawing
06/01/2022 to 08/01/2022	Residence for Ramanan	Reinforcement, electrical work installation and concreting

Soak pit
Rings casting
each 1 feet



The soak pits are 4 feet in height, in which 3 inches pcc is given as base. So in total 3 rings are placed, the last one is called as soak pit, where sewage is soaked.

WORKS DONE

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WEEK - 5

Residence for Ramanan

Reinforcement, electrical marking and concreting

DATE	PROJECT NAME	WORK DONE
03/01/2022 to 05/01/2022	Residence for Bharat and shanthi	Service layout and landscape drawing
06/01/2022 to 08/01/2022	Residence for Ramanan	Reinforcement, electrical work installation and concreting

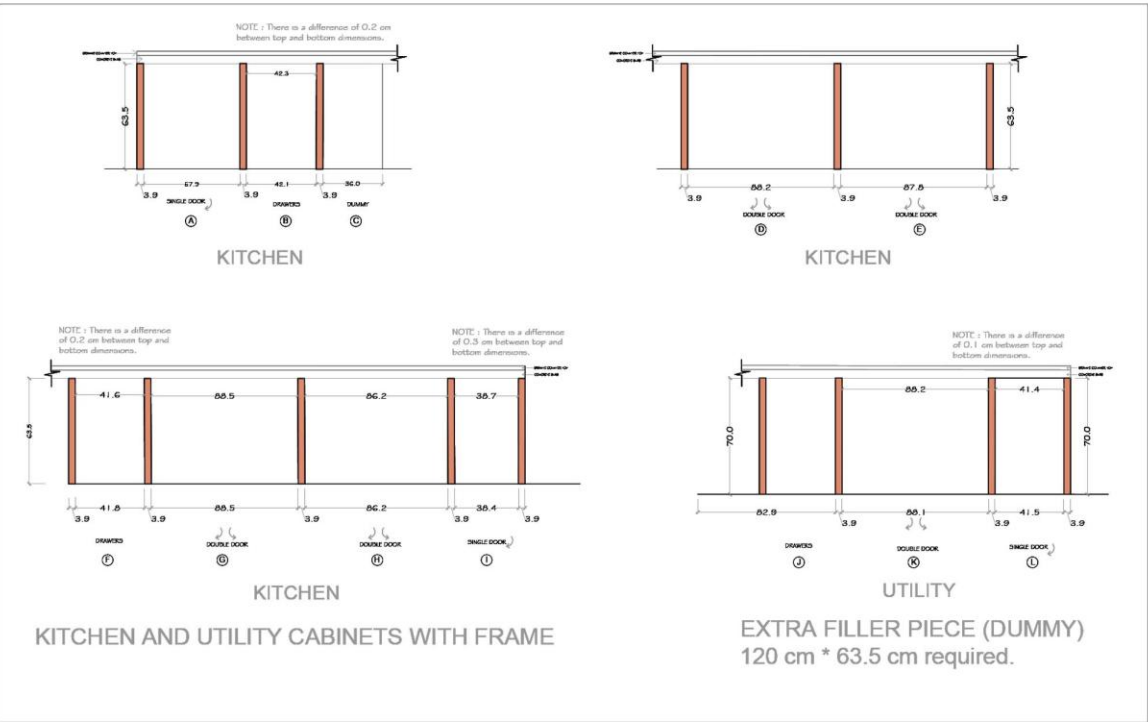


WEEK - 6

DATE	PROJECT NAME	WORK DONE
10/01/2022 to 13/01/2022	Residence for Bharat and shanthi	Kitchen cabinets and loft elevation drawings for interior designer meeting.

Residence for Bharat and Shanthi

Kitchen cabinets, loft and wardrobe elevation drawings for interior designer meeting.



Vertical members are fixed as frames

WORKS DONE

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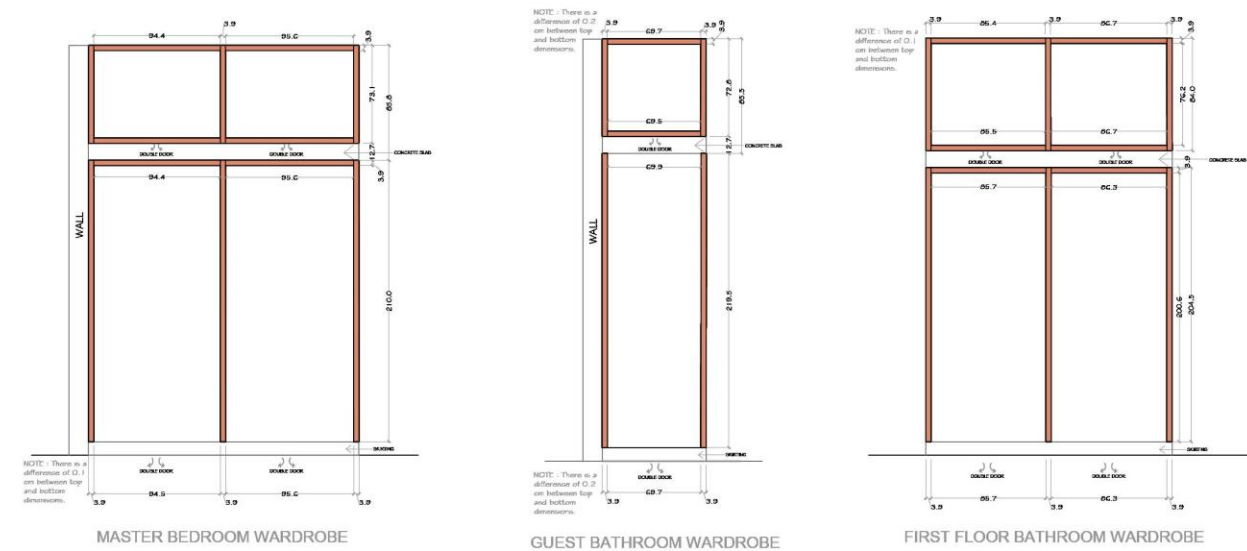
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ROFESSIONAL TRAINING REPORT

WEEK - 6

DATE	PROJECT NAME	WORK DONE
10/01/2022 to 13/01/2022	Residence for Bharat and shanthi	Kitchen cabinets and loft elevation drawings for interior designer meeting.



WARDROBES WITH FRAME

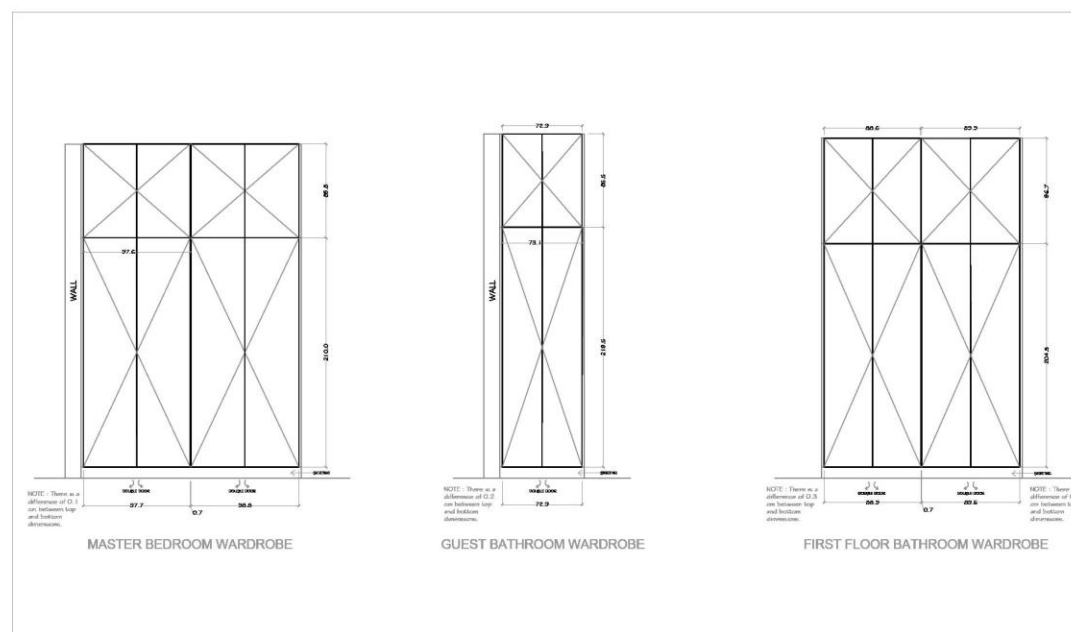
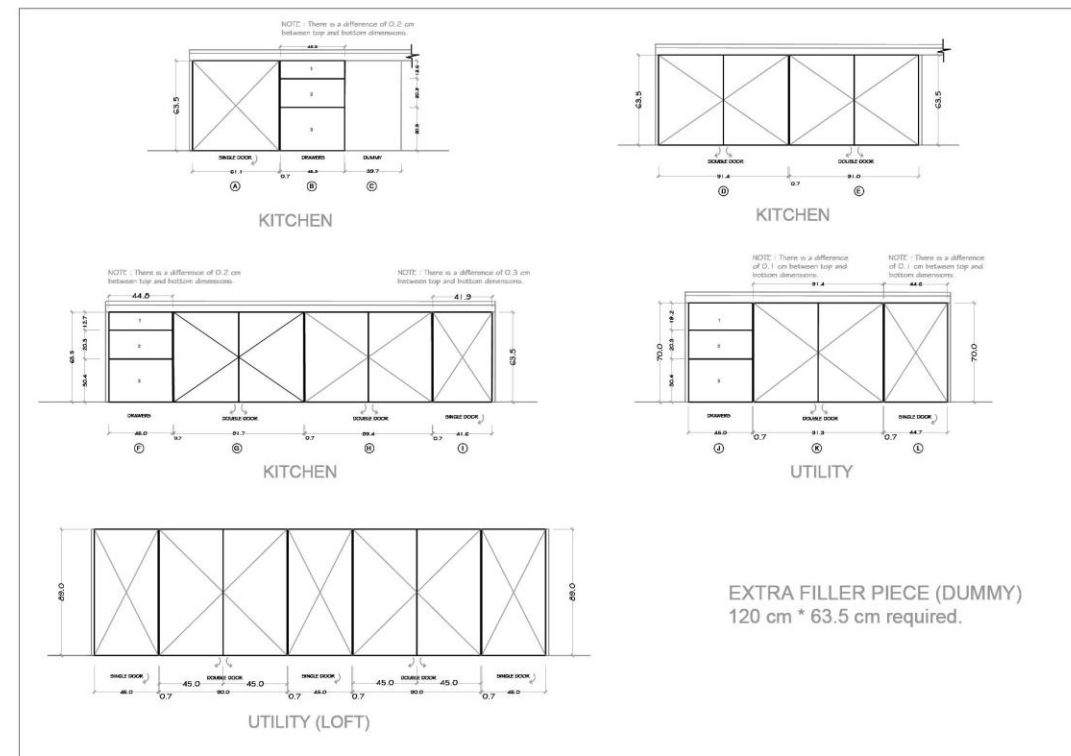


Vertical members are fixed as frames

WORKS DONE

Residence for Bharat and Shanthi

Kitchen cabinets, loft and wardrobe elevation drawings for interior designer meeting.



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PROFESSIONAL TRAINING REPORT

Had a very lively and raw experience, getting hands dusted and having an interaction with masons and workers on site.

Thank you

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