

VIBHAAS
Architectural Portfolio
SOORYA

2018 - 2023



SATHYABAMA

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

Accredited with “A” grade by NAAC | 12B Status by UGC | Approved by AICTE

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600 119

www.sathyabama.ac.in

SCHOOL OF BUILDING AND ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

PRACTICAL TRAINING PORTFOLIO (SAR4063)

JANUARY 2023

Name of the Student: Vibhaas Vijayakumar Soorya

Batch

: **2018 - 2023**

Reg No.

: 38210076

Semester

: **X**



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SCHOOL OF BUILDING AND ENVIRONMENT DEPARTMENT OF ARCHITECTURE

VIVA-VOCE EXAMINATION

This is to certify that the practical training SAR 4063 is the work of **VIBHAAS VIJAYAKUMAR SOORYA**, Who had undergone training in **CHARIS CONSTRUCTION PRIVATE LIMITED** has been monitored by the continuous assessment during JANUARY 2023 to MAY 2023.

Dr. Devyani Gangopadhyay

DEAN

Submitted for Viva voce Examination held on 09/05/2023

Internal Examiner

External Examiner



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DECLARATION

I, **VIBHAAS VIJAYAKUMAR SOORYA** hereby declare that the Training Report **JANUARY 2023 to MAY 2023** done by me under the guidance of **Ar. PAUL K JACOB** is submitted in partial fulfillment of the requirements for the completion of practical training session.

DATE : 09/05/2023

PLACE : ANNA NAGAR, CHENNAI.

 Soorya
9/5/23

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 practical training and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. Devyani Gangopadhyay**, Dean, School of Building and Environment and **Ar.Sarath Chandra Kanth**, Design Chair, Department of Architecture for having been a constant source of support and encouragement.

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

I also wish to thank **SHARON. C. PACKIAMUTHU**, for the experience of interning at their firm.

CONFIRMATION LETTER



CHARIS CONSTRUCTION
PRIVATE LIMITED



www.charisconstructions.com
info@charisconstructions.com
+91 93840 80101 / 044-26568989

Date: 03rd June, 2023

From

Charis Construction Private Limited,
AA 47, 2nd Floor, 2nd Street,
3rd Main Road,
Anna Nagar,
Chennai – 600040.

To

Mr. Vibhaas Vijayakumar Soorya,
S/o, Mr. Vijayakumar.S,
Sathyabama Institute of Science and Technology,
Chennai.

Dear Mr. Vibhaas Vijayakumar Soorya

Sub: Internship Acceptance Letter

We would like to confirm that your application for internship for the position of Architect intern in the Architecture department has been accepted. This internship will be an offline internship. Here are some terms you will be following in this internship:

1. The duration of the internship will be from 23rd January, 2023 to 6th June, 2023 for a period of 90 days.
2. You will be designated as an Intern and you may or may not receive a stipend every month which may or may not increase depending on performance which will be handed over at the end of the internship period.
3. During the internship period, you are to abide by all the terms and conditions of the internship.

Wishing you good luck on your future endeavours!

Kind Regards

Divya
HR
Charis Construction Private Limited

ADDRESS : AA 47, 2ND STREET, 3RD MAIN ROAD
ANNA NAGAR, CHENNAI - 600040

MONTHLY REPORT 1 & 2



PROFESSIONAL PRACTICAL TRAINING REPORT 2023

(Monthly Progress to be documented and submitted to the HOD by the Architect in charge of Trainee of the Organization)

1. Name of the Office / Organization : CHARIS CONSTRUCTIONS PVT. LTD.
2. Address & Contact Number : AA 47, 2nd Street, 3rd Main Road, Anna Nagar, Chennai 600042
3. Name of the Student : VIBHAAS SORRYA
4. Duration : From 23-1-23 To 06/3/23
5. Total No. of days : 30
6. Evaluation of Performance Criteria shall be on

Description of works	Excellent	Good	Fair	Poor	NA
Office Culture Comprehension		✓			
Participation in the Office	✓				
Reading of Drawings	✓				
Presentation Techniques		✓			
Model Making	✓				
Understanding of Construction Details	✓				
Drafting Skills (Manual/Computer)	✓				
Site Supervision / Client Interaction Skills	✓				
Time Schedule Adherence		✓			
Other Computer Skills		✓			
Files and Office Maintenance		✓			
Coordination with other Consultants		✓			
Overall Grading*	Good (80)				

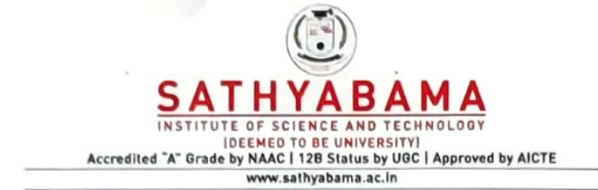
* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month*

7. Any other Remarks:

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

CHARIS CONSTRUCTION PVT LTD

Director



PROFESSIONAL PRACTICAL TRAINING REPORT 2023

(Monthly Progress to be documented and submitted to the HOD by the Architect in charge of Trainee of the Organization)

1. Name of the Office / Organization : Charis Construction Private Limited
2. Address & Contact Number : Anna Nagar, Chennai
3. Name of the Student : VPbhaas Sorrya
4. Duration : From 08/03/23 To 17/04/23
5. Total No. of days : 25 days
6. Evaluation of Performance Criteria shall be on

Description of works	Excellent	Good	Fair	Poor	NA
Office Culture Comprehension		✓			
Participation in the Office		✓			
Reading of Drawings	✓				
Presentation Techniques	✓				
Model Making	✓				
Understanding of Construction Details		✓			
Drafting Skills (Manual/Computer)	✓				
Site Supervision / Client Interaction Skills		✓			
Time Schedule Adherence			✓		
Other Computer Skills		✓			
Files and Office Maintenance		✓			
Coordination with other Consultants		✓			
Overall Grading*	Good 80/90				

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

7. Any other Remarks:

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



MONTHLY REPORT 3 & 4



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PROFESSIONAL PRACTICAL TRAINING REPORT 2023

(Monthly Progress to be documented and submitted to the HOD by the Architect in charge of Trainee of the Organization)

- Name of the Office / Organization : Charis Construction Pvt Ltd
- Address & Contact Number : Anna Nagar, Chennai
- Name of the Student : Vibhaas Soorya
- Duration : From 18/04/2023 To 11/05/2023
- Total No. of days : 19
- Evaluation of Performance Criteria shall be on

Description of works	Excellent	Good	Fair	Poor	NA
Office Culture Comprehension		✓			
Participation in the Office	✓				
Reading of Drawings	✓				
Presentation Techniques		✓			
Model Making		✓			
Understanding of Construction Details		✓			
Drafting Skills (Manual/Computer)		✓			
Site Supervision / Client Interaction Skills		✓			
Time Schedule Adherence		✓			
Other Computer Skills		✓			
Files and Office Maintenance		✓			
Coordination with other Consultants		✓			
Overall Grading*	Good 80/90				

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

7. Any other Remarks:

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

CHARIS GROUP OF COMPANIES
No. AA-47, 2nd Street,
3rd Main Road, Anna Nagar,
Chennai - 600 040.
Ph : 8925444489



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PROFESSIONAL PRACTICAL TRAINING REPORT 2023

(Monthly Progress to be documented and submitted to the HOD by the Architect in charge of Trainee of the Organization)

- Name of the Office / Organization : Charis Construction Private Limited
- Address & Contact Number : Anna Nagar, Chennai
- Name of the Student : Vibhaas Soorya
- Duration : From 12/05/2023 To 06/06/2023
- Total No. of days : 16
- Evaluation of Performance Criteria shall be on

Description of works	Excellent	Good	Fair	Poor	NA
Office Culture Comprehension	✓				
Participation in the Office	✓				
Reading of Drawings	✓				
Presentation Techniques	✓				
Model Making		✓			
Understanding of Construction Details		✓			
Drafting Skills (Manual/Computer)		✓			
Site Supervision / Client Interaction Skills		✓			
Time Schedule Adherence		✓			
Other Computer Skills		✓			
Files and Office Maintenance	✓				
Coordination with other Consultants	✓				
Overall Grading*	(80/90) Good.				

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

7. Any other Remarks:

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

CHARIS GROUP OF COMPANIES
No. AA-47, 2nd Street,
3rd Main Road, Anna Nagar,
Chennai - 600 040.
Ph : 8925444489

WORK DIARY

	PROJECTS NAME	WORK
WEEK 1	BEACH VIEW VILLA.	DESIGNED AND MODELED THE WHOLE VILLA.
WEEK 2	CONTAINER HOUSING	CREATED A BLOG ON CONTAINER HOUSING & HOW EFFECTIVE IT IS AND HOW IS IT MADE.
WEEK 3	BEACH VILLA, MALDIVES.	WORKED ON LIVE CREATING FORMS AND ANALYZING MATERIALS.
WEEK 4	APARTMENT INTERIORS, MALDIVES.	WORKED ON APARTMENT INTERIORS OF LIVE PROJECT PROPOSED IN MALDIVES
WEEK 5	GATED COMMUNITY, PANAIYUR.	WORKED ON THE ZONING OF A GATED COMMUNITY, AND SUGGESSTED FEW OPTIONS.
WEEK 6	APARTMENT INTERIORS, MADHAVARAM.	WORKED ON LIVE INTERIOR PROJECT ON AN APARTMENT. ANALYSED AND SUGGESTED A OPTION
WEEK 7	APARTMENT INTERIORS, MADHAVARAM.	WORKED ON THE APARTMENT FOR ANOTHER OPTION.
WEEK 8	PRESTINE LIVING, MALDIVES.	ANALISED THE SITE AND SURROUNDING AND OTHER FACTORS.
WEEK 9	PRESTINE LIVING, MALDIVES.	DESIGNED MULTIPLE OPTIONS FOR THE FORM OF THE BUILDING
WEEK 10	PRESTINE LIVING, MALDIVES.	WORKED ON ZONING AND PARKING LAYOUT
WEEK 11	PRESTINE LIVING, MALDIVES.	WORKED ON PLANS AND CIRCUALTION.
WEEK 12	PHYSICAL MODEL.	WORKED ON THE PHYSICAL MODEL TO PLACE IT AS A CENTERPIECE IN CHARIS, AND TO PROMOTE ITS SUSTAINABILITY.
WEEK 13	PRESTINE LIVING, MALDIVES.	WORKED AND DETAILED OTHER PLANS.
WEEK 14	PRESTINE LIVING, MALDIVES.	WORKED ON THE INTERIORS OF THE PENTHOUSE IN THAT BUILDING.
WEEK 15	ARUVI ART WORKS,	WORKED IN THE INTERIORS OF ANOTHER COMMERCIAL LIVE PROJECT.
WEEK 16	OFFICE WALL DEISGN, CHARIS RECEPTION.	WORKED ON DESIGNING AN ACCENT WALL ON CHARIS RECEPTION.

CONSOLIDATED CERTIFICATE

CERTIFICATE OF INTERNSHIP

PROUDLY PRESENTED TO

Vibhaas Vijayakumar Soorya

This certificate is awarded to you for successfully completing a 3-month architect internship at Charis Construction Private Limited. We extend our warmest congratulations to you for your outstanding work and contributions during your internship period.

23-01-2023 to 06-06-2023

DURATION

CHARIS GROUP OF COMPANIES
No. AA-47, 2nd Street,
3rd Main Road, Anna Nagar,
Chennai - 600 040
Charis Ph : 8925444489

SIGNATURE



ABOUT THE FIRM:

We are an international entity formed of a set of companies evolving in various forms of business around the globe. We have our interest and success in the field of modern construction, developments and consultants , project management renewable energy & sustainability, media and communication, Informations technology , food production and agriculture. We are a unique manufacturer of Lime mortar and we also build new buildings and renovate ancient heritage building using our skilled labourer.

we are rapidly expanding into various fields, and we sure want to make a global impact on sustainable development, Charis takes absolute pride in being a part of sustainable development and its contribution to the globe.



VISION:

We have a vision of being the best choice in Building Construction and the best in rendering services such as provision of professionals in project management, QA/QC and Construction safety to our esteemed clients."

"CHARIS is committed to providing the highest level of construction and building maintenance services in the Global south region, the Eastern world and Europe. We will ensure the longevity of our company through repeat and referral business achieved by customer satisfaction by exceeding their expectations on every project we work on."

Mission

"Our mission is to focus on the client as the most important aspect of our business. Each project is undertaken with an uncompromising commitment to excellence and 100% customer satisfaction."

"It is the mission of the CHARIS to provide its customers with the highest quality, cost effective services by complying with client specifications and work requirements." "We are 100% committed to safety, quality, and performance. We take our reputation as a leading construction contractor quite seriously."

Beach View Villa



Aruvi Art Works,

Mahabalipuram.



Apartment Interiors,

Madhavaram.

Charis Reception,

Anna Nagar, Chennai.



Standard Apartment Interiors,

Maldives.



PHYSICAL MODEL



Prestine Living Complex,

Maldives.

BLOG CREATION





Beach View Villa

BEACH VIEW
VILLA

GROUND FLOOR PLAN

- NOTES
- ALL DIMENSION ARE AS MENTIONED.
 - THIS DRAWING IS TO BE READ AND NOT SCALED.
 - THIS DRAWING IS A COPYRIGHT AND PROPERTY OF THE ARCHITECT IS NOT TO BE PRODUCED HANDED OVER TO THIRD PARTY OR USED FOR ANY OTHER PURPOSE OTHER THAN FOR WHICH IT IS INTENDED
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL STRUCTURAL AND SERVICES DRAWINGS ANY DISCREPANCY NOTICED SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANTS WITHIN REASONABLE TIME OF RECEIPT OF THIS DRAWING BUT ALWAYS PRIOR TO PROCUREMENT/EXECUTION OF WORKS.
 - ANY DISCREPANCY IN THE DRAWING , SHOULD BE BOUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.

Paula Jant 14.00.2002020

Seal & Signature:



SHEET NO.

1

PROJECT NO. : 01
SCALE : SCALE TO FIT
DRAWN BY : AR. VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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AA 47, 2nd Floor - 2nd Street, 3rd Main Road
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BEACH VIEW
VILLA

FIRST FLOOR PLAN

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Paula J. 14.00.2020

Seal & Signature:



SHEET NO.
2

PROJECT NO. : 01
SCALE : SCALE TO FIT
DRAWN BY : AR. VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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BEACH VIEW VILLA

MASTER PLAN

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Paulle Paul 14.00.2002020

Seal & Signature:



SHEET NO.

3

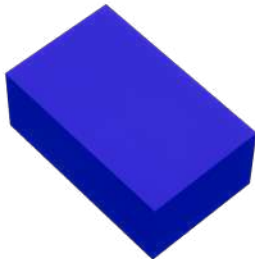
PROJECT NO. : 01
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DRAWN BY : AR. VIBHAAS SOORYA
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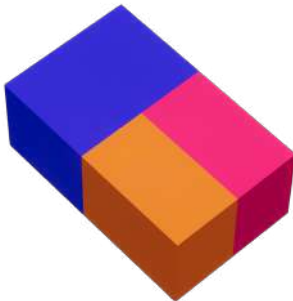
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FORM EVOLUTION:

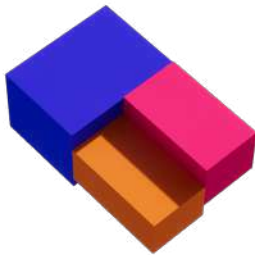
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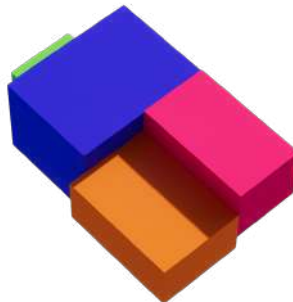
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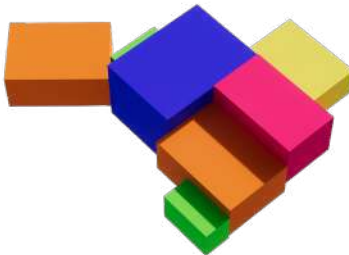
3



4



5



RENDERS:



BEACH VIEW VILLA

MASTER PLAN

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Paula Paul 14.00.2002020

Seal & Signature:



SHEET NO.

4

PROJECT NO. : 01
SCALE : SCALE TO FIT
DRAWN BY : AR. VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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Madhavaram Interiors

APARTMENT
INTERIORS,

MADHAVARAM

INTERIOR RENDERS
PLAN VIEW

- NOTES
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Paula Paul 14.00.2002020

Seal & Signature:



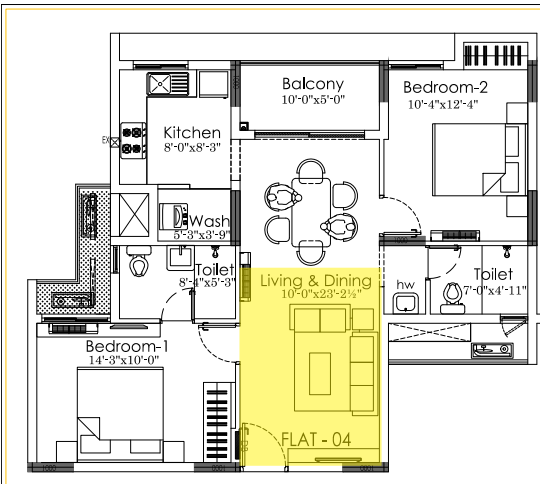
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1

PROJECT NO. : 02
SCALE : SCALE TO FIT
DRAWN BY : AR. VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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APARTMENT INTERIORS,

MADHAVARAM

INTERIOR RENDERS LIVING ROOM TYPE 1

- NOTES
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Paula Paul CA 002002020

Seal & Signature:



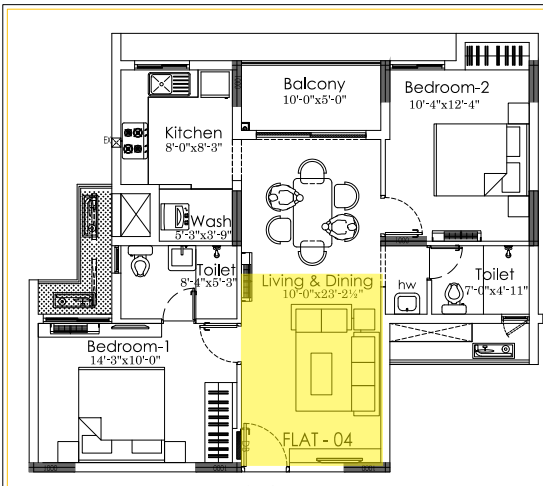
SHEET NO.

2

PROJECT NO. : 02
SCALE : SCALE TO FIT
DRAWN BY : AR. VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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APARTMENT INTERIORS,

MADHAVARAM

INTERIOR RENDERS LIVING ROOM & DINING TYPE 2

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Paula Paul 14/02/2020

Seal & Signature:



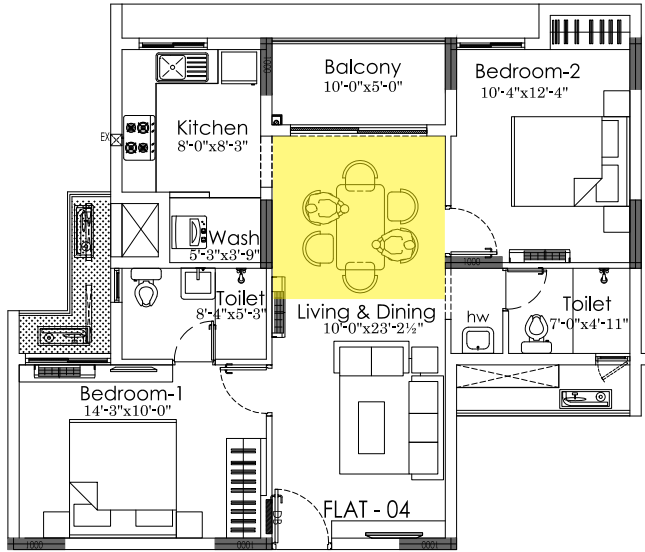
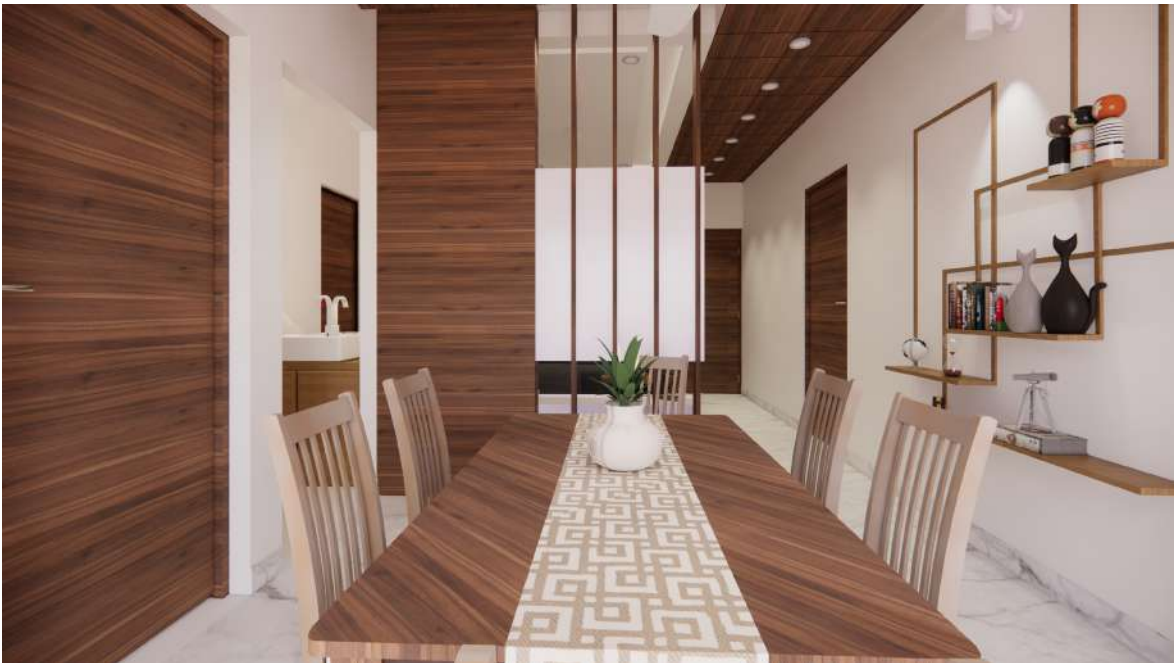
SHEET NO.

3

PROJECT NO. : 02
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APARTMENT INTERIORS,

MADHAVARAM

INTERIOR RENDERS DINING

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Paula Paul 14/02/2020

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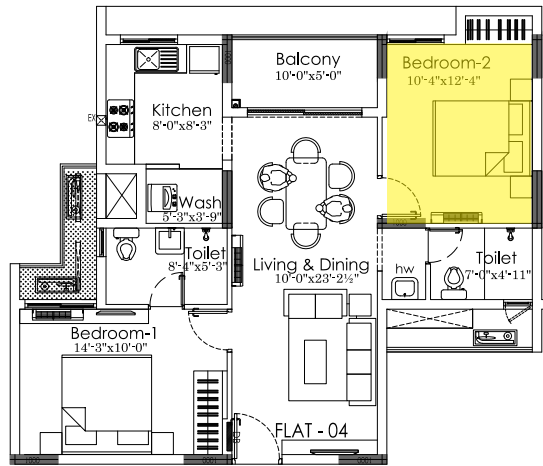
SHEET NO.

4

PROJECT NO. : 02
SCALE : SCALE TO FIT
DRAWN BY : AR. VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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PHONE NO. : +91 8925444489
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WEBSITE : charisgroup.co.uk



APARTMENT INTERIORS,

MADHAVARAM

INTERIOR RENDERS KIDS BED ROOM

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Paula Paul 14/02/2020



Seal & Signature:



SHEET NO.

5

PROJECT NO. : 02
SCALE : SCALE TO FIT
DRAWN BY : AR. VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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PRIVATE LIMITED
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APARTMENT
INTERIORS,
MADHAVARAM

INTERIOR RENDERS
MASTER BEDROOM

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Paula Paul 14.00.2002020

Seal & Signature:



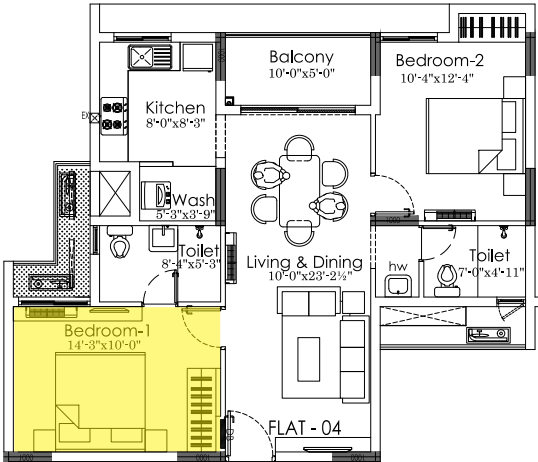
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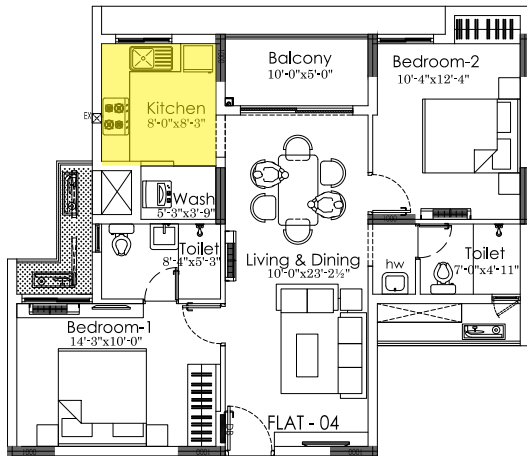
6

PROJECT NO. : 02
SCALE : SCALE TO FIT
DRAWN BY : AR. VIBHAAS SOORYA
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APARTMENT INTERIORS, MADHAVARAM

INTERIOR RENDERS KITCHEN

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Paula Paul 14/02/2020

Seal & Signature:



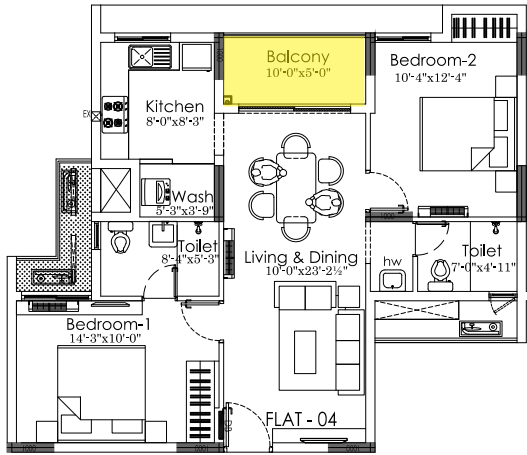
SHEET NO.

7

PROJECT NO. : 02
SCALE : SCALE TO FIT
DRAWN BY : AR. VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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APARTMENT INTERIORS,

MADHAVARAM

INTERIOR RENDERS BALCONY

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Paula Paul 14/02/2020

Seal & Signature:



SHEET NO.

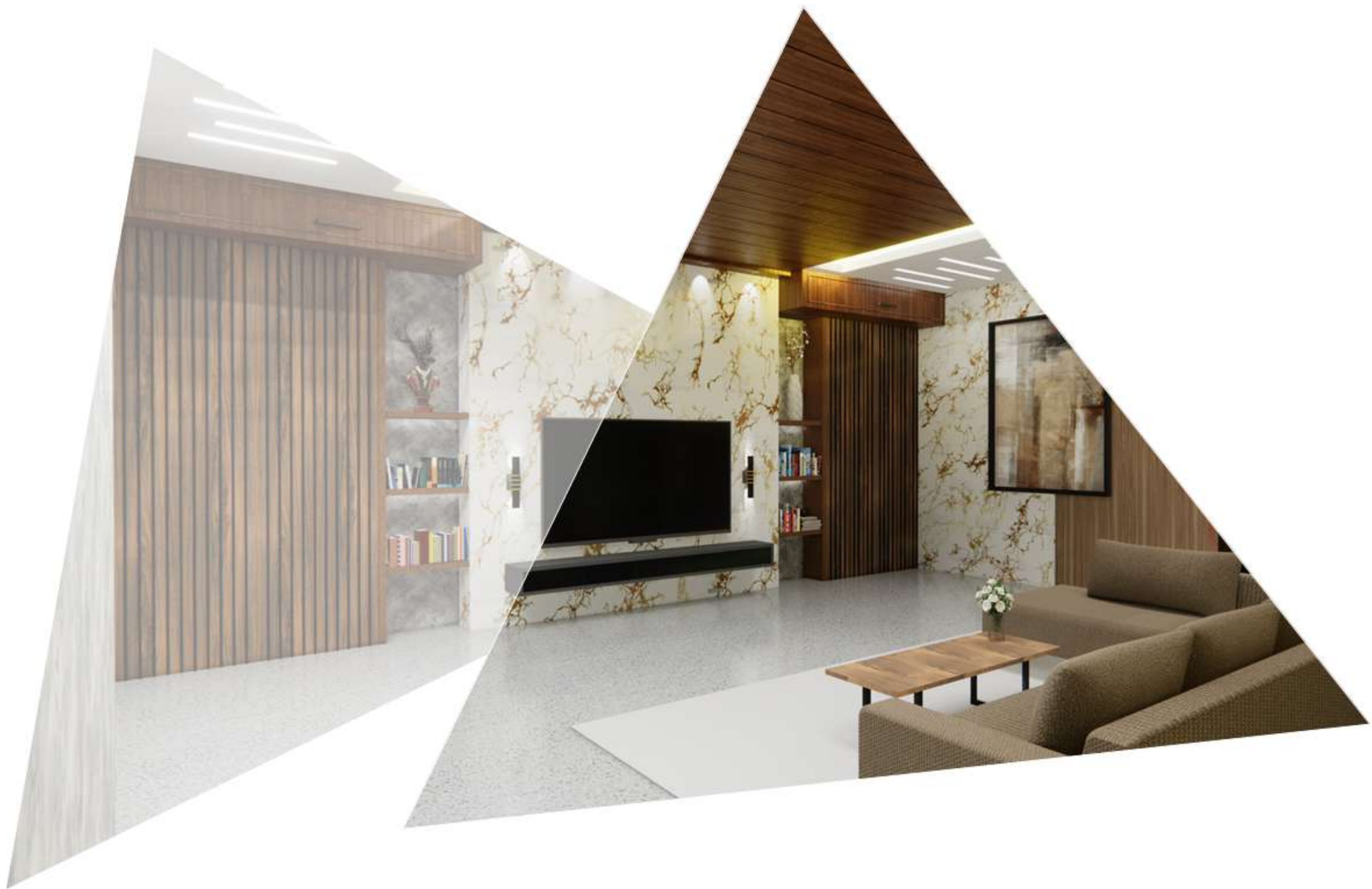
8

PROJECT NO. : 02
SCALE : SCALE TO FIT
DRAWN BY : AR. VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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Standard apartment, Maldives

STANDARD
APARTMENT,
MALDIVES

INTERIOR RENDERS
LIVING ROOM

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Paulle Paul 14.00.2002020

Seal & Signature:



SHEET NO.

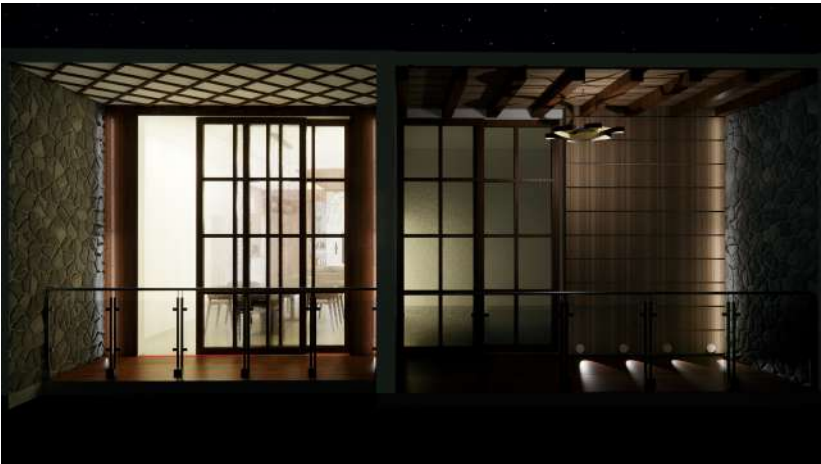
1

PROJECT NO. : 03
SCALE : SCALE TO FIT
DRAWN BY : AR. VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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STANDARD APARTMENT,

MALDIVES

INTERIOR RENDERS KITCHEN AND BALCONY

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Paula Paul 14/02/2020

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SHEET NO.

2

PROJECT NO. : 03
SCALE : SCALE TO FIT
DRAWN BY : AR. VIBHAAS SOORYA
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PRESTINE LIVING, Maldives

PRESTINE LIVING

MALDIVES

STANDARD APARTMENT
FLOOR PLAN

- NOTES
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Paula Paul 14/02/2020

Seal & Signature:



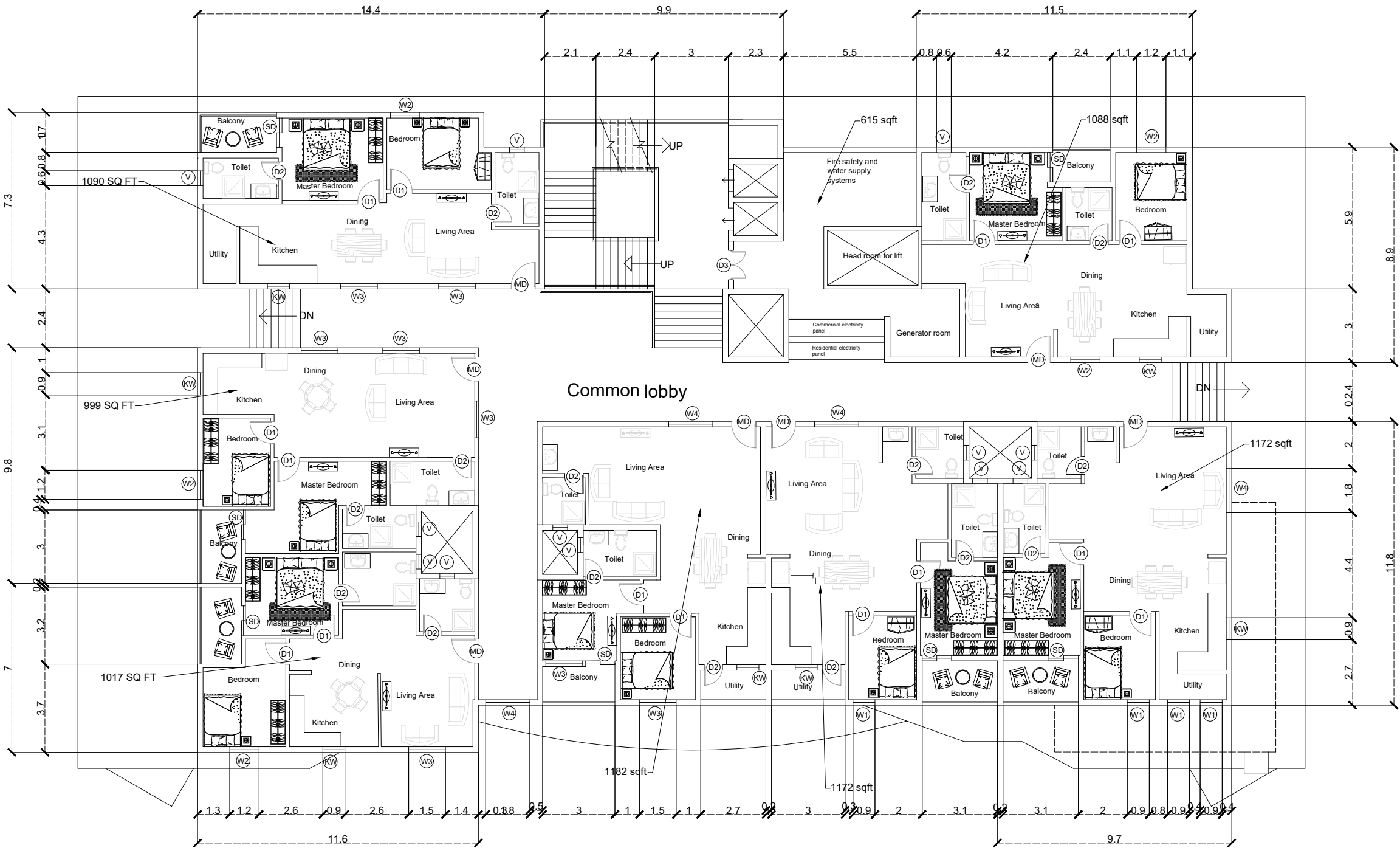
SHEET NO.

1

PROJECT NO. : 04
SCALE : SCALE TO FIT
DRAWN BY : AR.VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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PRESTINE LIVING

MALDIVES

STANDARD LUXURY APARTMENT
FLOOR PLAN

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Paula Paul 14/02/2020

Seal & Signature:

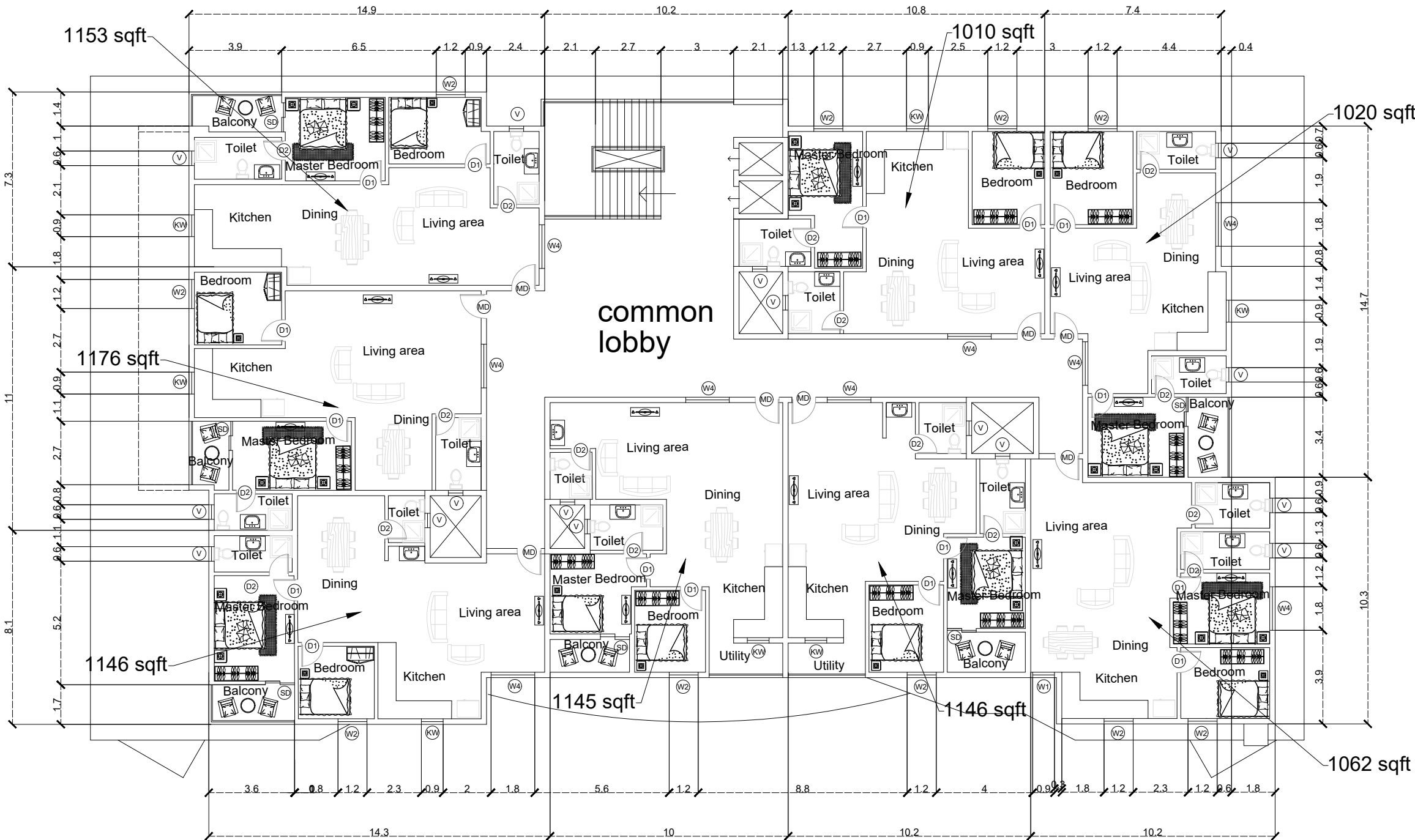


SHEET NO.
2

PROJECT NO. : 04
SCALE : SCALE TO FIT
DRAWN BY : AR.VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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PRESTINE LIVING

MALDIVES

EXTERIOR RENDERS

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Paula Paul 14.00.2002020

Seal & Signature:



SHEET NO.

3

PROJECT NO. : 04
SCALE : SCALE TO FIT
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PRESTINE LIVING

MALDIVES

INTERIOR RENDERS PENTHOUSE MODEL 1

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SHEET NO.
4

PROJECT NO. : 04
SCALE : SCALE TO FIT
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PRESTINE LIVING

MALDIVES

INTERIOR RENDERS PENTHOUSE MODEL 2

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Paula Paul 14/02/2020

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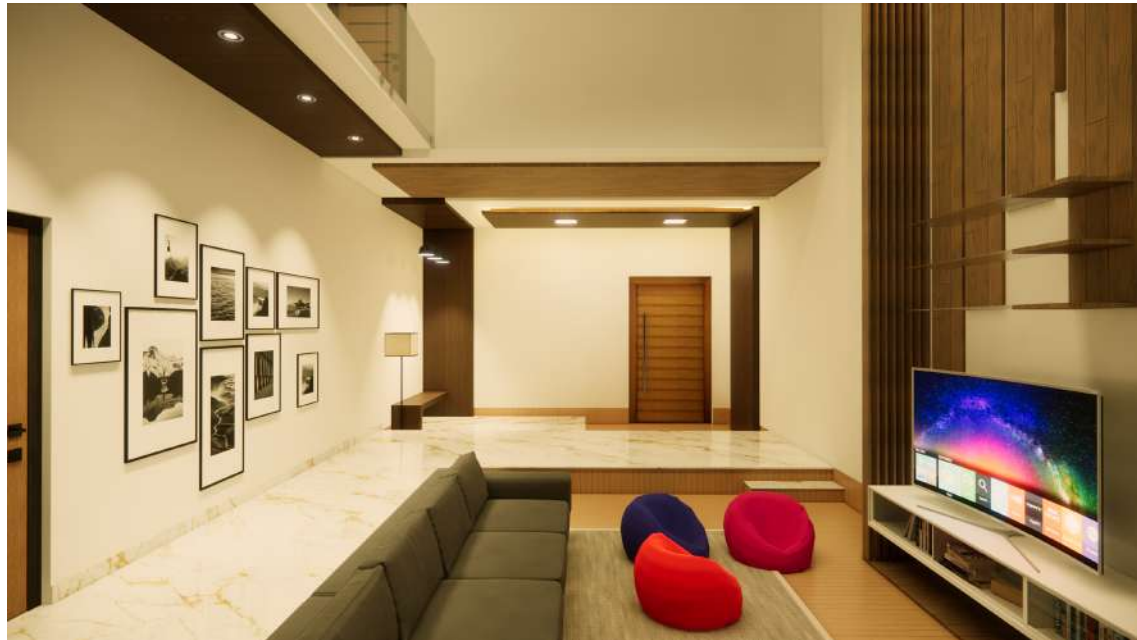
SHEET NO.

5

PROJECT NO. : 04
SCALE : SCALE TO FIT
DRAWN BY : AR.VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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PRESTINE LIVING

MALDIVES

INTERIOR RENDERS PENTHOUSE MODEL 2

NOTES

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Paula Paul 14/00/2002/2020

Seal & Signature:



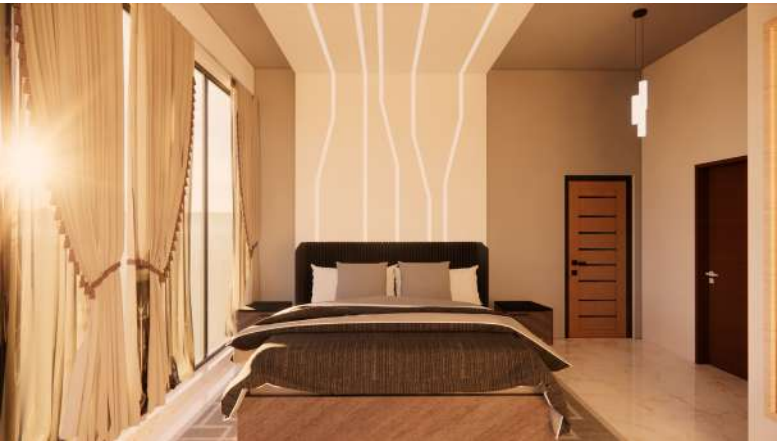
SHEET NO.

6

PROJECT NO. : 04
SCALE : SCALE TO FIT
DRAWN BY : AR.VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT



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PRESTINE LIVING

MALDIVES

INTERIOR RENDERS PENTHOUSE BEDROOM

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Paula Paul 14.00.2002.2020

Seal & Signature:



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7

PROJECT NO. : 04
SCALE : SCALE TO FIT
DRAWN BY : AR.VIBHAAS SOORYA
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Aruvi art works, Mahabalipuram.

ARUVI ART
WORKS,
MAHABALIPURAM.

INTERIOR RENDERS

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Paula Paul 14.00.2002020

Seal & Signature:



SHEET NO.

1

PROJECT NO. : 05
SCALE : SCALE TO FIT
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Wall Renovation, Charis Reception.

ARUVI ART
WORKS,
MAHABALIPURAM.

INTERIOR RENDERS

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Paula Paul 14/02/2020

Seal & Signature:



SHEET NO.
1

PROJECT NO. : 05
SCALE : SCALE TO FIT
DRAWN BY : AR.VIBHAAS SOORYA
CHECKED BY : PROJECT ARCHITECT

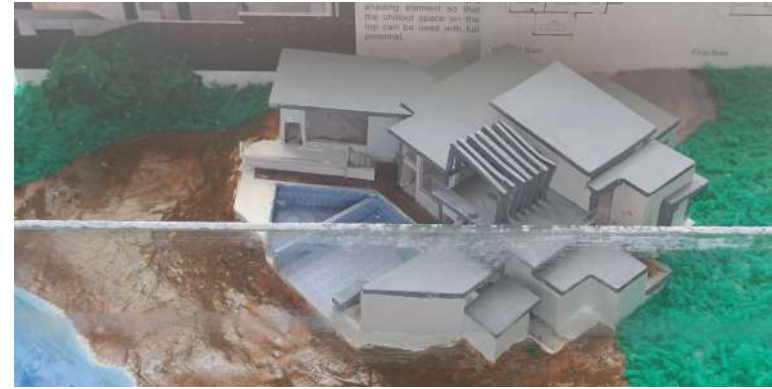
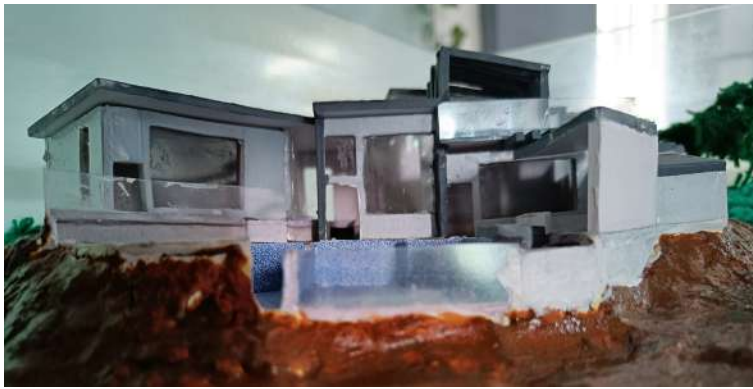


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PHYSICAL MODEL



PHYSICAL MODEL

EXPLLANATION SHEET

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Paula Paul EA002002020

Seal & Signature:



SHEET NO.

1

PROJECT NO. : 07

SCALE : SCALE TO FIT

DRAWN BY : AR.VIBHAAS SOORYA

CHECKED BY : PROJECT ARCHITECT



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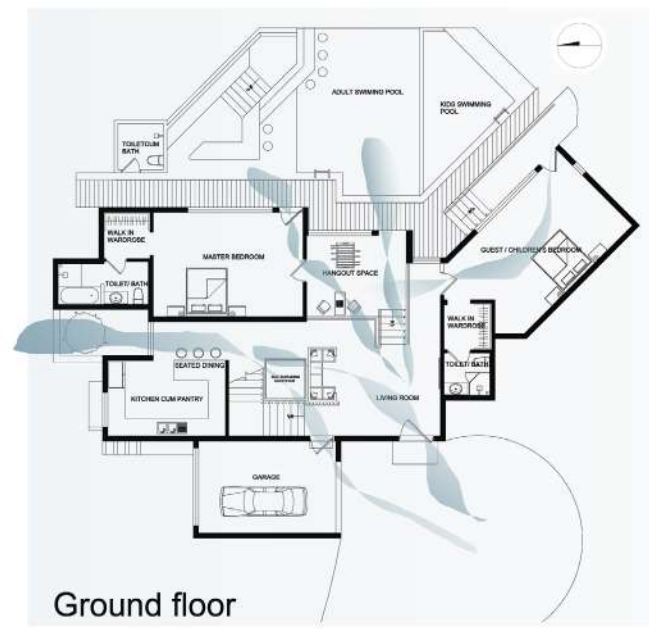
The Section here shows the level difference and the use of contours in a efficient way. The vertical and horizontal members ont the roofs are not only for aesthetics but serving its purpose as a shading element so that the chillout space on the top can be used with full potential.

Section

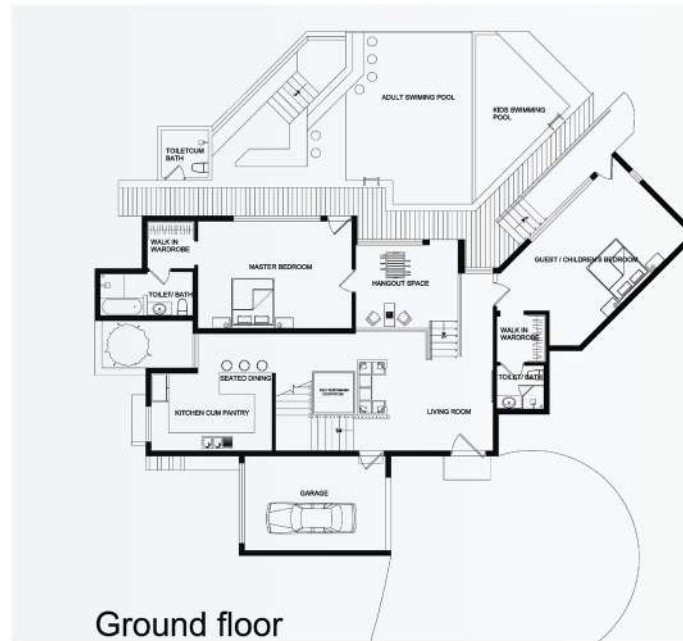
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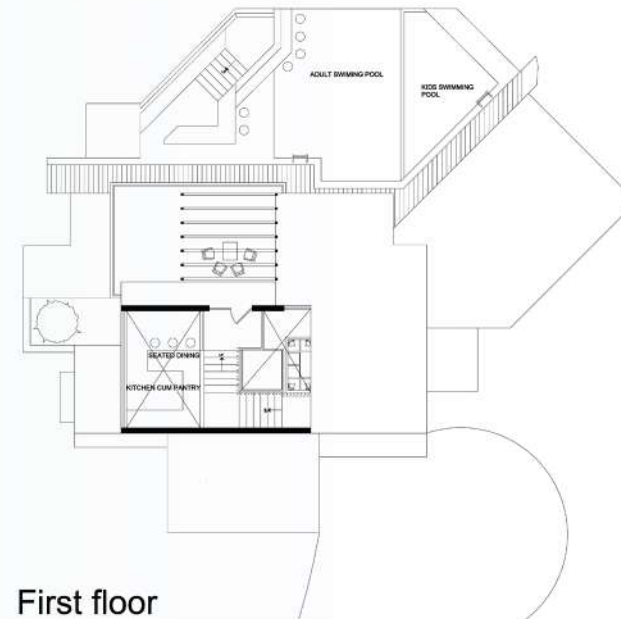
Elevation



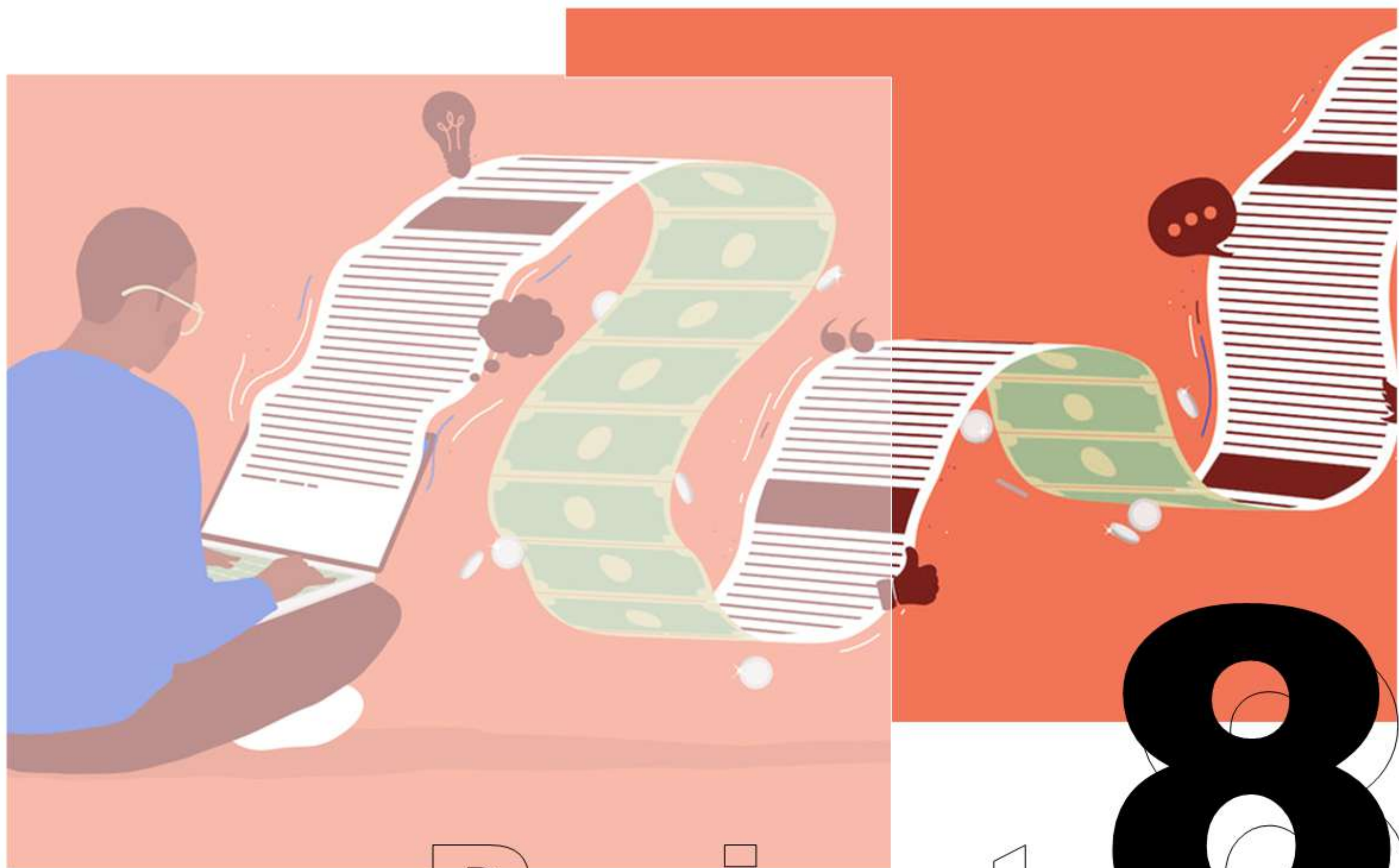
Ground floor



Ground floor



First floor



Project

8

CONTAINER HOUSING

-vibhaas vijayakumar soorya

Container houses are living homes created by reusing intermodal containers that are used to transport goods and other materials.

Container housing holds a lot of potential when it comes to the construction industry because of its easy availability and reusability. Containers are known for their durable case as they are used for shipping materials and products and are specially built to withstand corrosion and earthquake.



Modifying containers as living space can be a really good idea as it can be a potential design element and low-cost built-ups. The whole modified container can range from 4 lakhs to 15 lakhs.

Containers can be easily modified into houses, offices, storage units, lounges, garages, dormitories, security cabins, villas, etc....

Container housing can be an option for people who are thinking about having a house that lasts for a long time, even with low maintenance it can last more than 25 years, and with good maintenance, it can last up to decades.

These shipping containers are available in three sizes 20'x 8' which holds around 160sqft of useable area, 40' x 8' which holds around 320sqft of useable area and 53' x 8' containers which holds around 420sqft of usable area. These modified containers can be used as personal offices or can be combined with multiple containers and can be constructed into a multi-storey building

There are various advantages when it comes to container housing. These modified container houses are much cost effective than the conventionally built houses as the whole end product can be achieved in a minimum of 5 lakhs. As these container homes require less labour and less building materials. Even to reduce the cost we can be on our creative side and explore some of DIY skills. They are really quick to construct as the whole end product can be constructed in just a week if just used one or two containers. If it's a multi-story building, then it can be constructed within a month. Using containers as a concept of modular homes as they are easy to modify. We can use a mixture of 40' and 20' containers to build a large home with dining, living room, bedroom, guest rooms, and other extra rooms. Containers are mostly built-in high-quality and durable steel, so they can be weather and climatic-proof more than traditionally constructed buildings. And the final advantage of container homes is they are mobile, container homes that can be picked up and transported anywhere around the world.



There are some disadvantages using container homes, the concept of reusing containers can backfire as some of the potential buyers prefer new containers to used containers. Thus not necessarily eco-friendly. The services can be really difficult, (i.e.) cutting open the structural reinforcements can make the container weaker, so hiring a structural engineer is essential. Container houses often need reinforcement. Even though these containers are built out of durable steel, making an opening reduces the structural stability of the container, so they often need to be reinforced. The main disadvantage of using used containers is not knowing where the container has been used, as they can be used to transport hazardous chemicals. Even some containers are painted with toxic chemicals to withstand the corrosion by sea.

So these are some of the main disadvantages of reusing containers for houses. But comparatively, advantages hold the upper hand over the disadvantages. So I bet Containers are best for reusing for construction.

BLOG CREATION

CONTAINER HOUSING

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Paula J. Paul 14/02/2020

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GREEN VILLAGE – SMART CITY

-Vibhaas Vijayakumar Soorya

A blog trying to combine both concepts for designing new cities

SMART CITY:

A smart city is a city that uses advanced technology and data analysis to optimize various aspects of urban life such as transportation, energy, public safety, waste management, and more. A smart city's goal is to improve its residents' quality of life while promoting economic growth, sustainability, and efficiency.

In a smart city, various systems and devices are interconnected through the Internet of Things (IoT), allowing for the collection and analysis of large amounts of data. This data can be used to inform decision-making, enhance city services, and improve overall quality of life.

GREEN VILLAGE:

The Green Village concept is a type of sustainable development focusing on an environmentally friendly and sustainable environment. A Green village is designed to be self-sufficient and able to meet the needs of its residents with Renewable energy and Smart technologies. A green village typically includes a mix of residential, commercial, and community spaces that are designed to maximize energy efficiency and minimize environmental impact.

GREEN VILLAGE – SMART CITY:

the green village concept and smart city concept can be combined to design a new city that is both sustainable and technologically advanced. Many new cities and urban developments around the world are being designed with both concepts in mind.

A city that combines the principles of green village and smart city concepts would prioritize sustainability, energy efficiency, and the use of renewable



resources, while also leveraging technology and data to optimize city operations and improve the quality of life for residents.

For example, a city designed with the green village concept might feature energy-efficient buildings, sustainable transportation systems, and renewable energy sources like solar and wind power.

Combining the green village and smart city concepts could also lead to innovative solutions to urban challenges, such as reducing greenhouse gas emissions, improving access to public transportation, and promoting sustainable food production. Ultimately, a city that integrates both concepts would aim to create a more livable, sustainable, and technologically advanced urban environment.

In this blog, we'll see the advantages and disadvantages of this approach, combining two concepts together, as well as how it can be used to create human-friendly spaces.

Advantages of these combined concepts:

- (i) The advantages of combining green village and smart city concepts are abundant. By using renewable energy sources, sustainable transportation systems, and environmentally-friendly buildings, a green village can significantly reduce its carbon footprint. At the same time, by using technology and data to optimize city operations, a smart city can improve efficiency and reduce costs.
- (ii) Combining these two concepts can also lead to the development of many innovative solutions to urban challenges. For example, a city that uses renewable energy sources can use smart technology to optimize energy usage and reduce waste. Similarly, a city that prioritizes sustainable transportation can use technology to improve traffic flow and reduce congestion.
- (iii) Another advantage of combining green village and smart city concepts is the potential to create human-friendly spaces. By designing cities with the needs and preferences of residents in mind, urban planners can create environments that are safe, comfortable, and accessible. For example, green spaces can be incorporated into urban design to improve mental and physical health, and technology can be used to enhance public safety and security.

Disadvantages of these combined concepts:

- (i) More expensive to implement:

The advantages of combining green village and smart city concepts are significant, but there are also some potential disadvantages to consider. One potential disadvantage is the expense to implement these concepts. Building sustainable infrastructure and incorporating smart technology can be expensive, and not all cities have the resources to make these investments.

- (ii) It might worsen inequality:

Another potential disadvantage is the risk of intensifying inequality. If only certain parts of the city have access to sustainable infrastructure and smart technology, it could worsen the gap between the fortunate and the unfortunate. It is important to ensure that all residents have access to the benefits of these concepts, regardless of their socioeconomic status.

Analysis of human usage of spaces:

When designing a city that combines green village and smart city concepts, it is important to consider how humans will use the spaces within the city. This requires a thorough understanding of human behavior and preferences, as well as the cultural and social context of the city.

The important element of human-friendly design is the incorporation of green spaces, walkability, Universal accessibility, Safety and security, Community and social spaces, and Sustainable infrastructure. Studies have shown that providing access to green spaces can improve people's mental health, reduce stress, and promote physical activity from a stationary lifestyle. Overall, the human-friendly design seeks to prioritize the well-being and happiness of residents by creating environments that are safe, accessible, and enjoyable to live in.

Smart surveillance systems can be used to monitor public spaces and detect potential threats. At the same time, privacy concerns must be addressed to ensure that residents feel safe and secure without sacrificing their privacy.

Combining the green village and smart city concepts can lead to the development of cities that are sustainable, efficient, and liveable. However, it is important to consider the potential advantages and disadvantages of this approach, as well as the human element of urban design. By incorporating green spaces, enhancing public safety, and promoting accessibility and inclusivity, cities can create environments that are truly human-friendly.

BLOG CREATION

GREEN VILLAGE & SMART CITY
CONCEPT

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CRITICAL OVERVIEW:

Each and every project is a learning experience at **CHARIS** . The friendly culture there gave me to explore so much. The project completion, Deadlines, one on one experience with the clients, Working in live projects gave me the best all these gave me the best knowledge in practical field.

Talking about the practical field, Unlike academics project there are much more criteria that we would be looking before proceeding into a design. We would to checking for the availability of the material and check for the budget and then the design would be executed. **CHARIS** has a motto “**We design for a Green Earth**”, and probably heard a million of times and proceeding that way.

After plenty of client visit, Vendor visit and Site visits the final outcome of the design seems to be a master piece. Working on a project for designing and detailing it. After looking into reality, executed properly gives us a good confidence in the field. CHARIS, In spite of being a startup gave me an opportunity to experience professionalism and finish my Internship period.