

# **ARCHITECTURAL DESIGN IV PORTFOLIO**

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**DESIGN GUIDE:  
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BA19ARC002**

## WORK PROCESS

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- CASE STUDYING
- SITE ANALYSIS
- SITE ZONING
- CONCEPT DEVELOPMENT
- SITE PLANNING
- DETAIL INDIVIDUAL PLANNING
- 3D COMPOSITION

# CONTENTS

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- CASE STUDY INFERENCES
- SITE ANALYSIS
- CONCEPT
- DETAIL ROOF AND SITE PLAN
- INDIVIDUAL PLANS , SECTIONS , ELEVATIONS AND 3D VIEWS.
- SPECIFICATIONS.

# TAKE WAYS OF CASE STUDY

## INTERLACE SINGAPORE

- Working on levels with respect to climate.
- working of site plan with service cores.
- How to balance between buildup and green covers.
- Horizontal stacking of mass rather than skyscrapers
- an expansive interconnected network of living and communal spaces integrated with the natural environment.

## 18 SCREENS

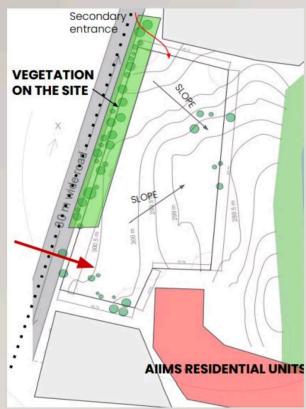
- How aesthetics can be perfectly bended with architecture in context to climate responsive planning.
- use of materials with context for different spaces.
- Design elements such as jaali derived with respect to its socio culture.

## SERVICES OF APARTMENT

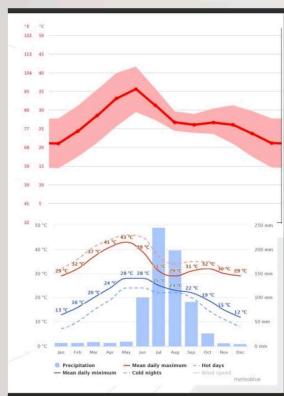
- How different layout are worked out i.e Plumbing layout, Electrical layout, light layout.

# SITE ANALYSIS

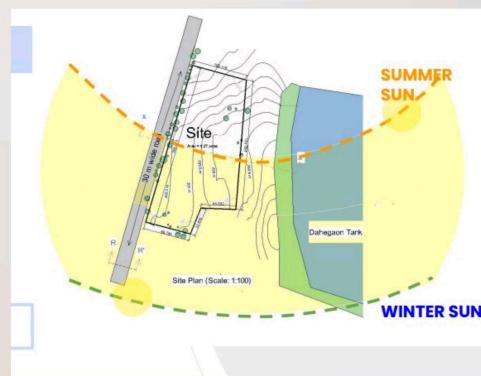
## SITE FEATURES



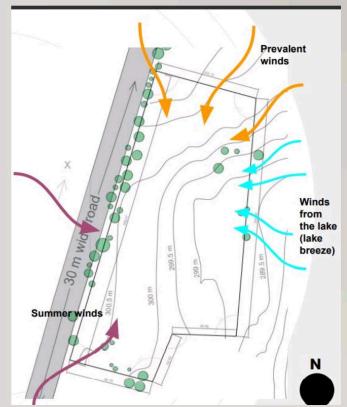
## CLIMATE



## SUN PATH

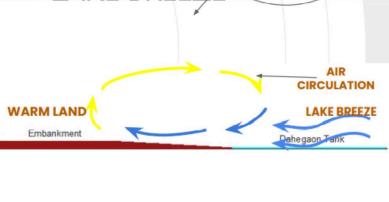


## WINDS



# SITE ANALYSIS

LAKE BREEZE



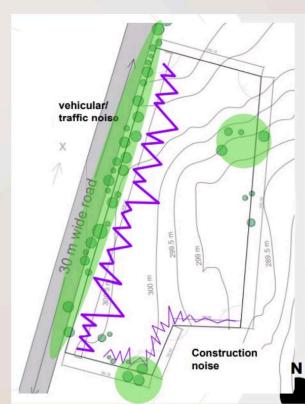
SURFACE DRAINAGE



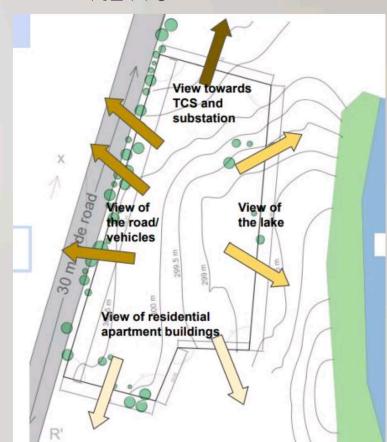
CONTOUR



NOISE LEVELS



VIEWS



## Norms and bye-laws

### SETBACKS

- As road is 30m wide, **front setback of 6m** to be given
- Side and rear setback- **6.00 mtr.** or **1/3rd the height** of the building for facades with habitable room and **1/5th the height** of the building for facades with non habitable rooms whichever is more

### FSI

- Max permissible FSI= 1.5
- Shall not exceed 35% of residential development
- Max ground coverage **65%**

### PATHWAYS

- For 30m road requires 7.5 M Width road for accessibility
- Vehicular Road not less than 4.5m wide
- Pedestrian road not less than 2M wide

### PLINTH

- Plinth height 0.45m min or 0.6m above high flood level

### OPEN SPACES

- Open area should be min 10% of the total area
- Open area excludes the area of roads and streets
- Open space should be not less than 400 M SQ and length is min 2 1/2 its width
- The open Side & rear space on all sides shall be Minimum 3.00 m. for building height upto 15 m

### HEIGHT

- The maximum height of building shall not exceed 1.5 times total of the width of road abutting plus front open space subject to other restrictions, if any.
- Road width 30m, therefore  $30 \times 1.5 = 45\text{m}$  max height of building

### PARKING

- Motor Vehicle 2.5 mtr. x 5.0 mtr.
- Scooter, Motorcycle 1.2 mtr. x 2.5 mtr.
- Bi-Cycle 1.0 mtr. x 1.4 mtr.
- Transport vehicle 3.75 mtr. x 7.5 mtr.
- Allotted parking space as per tenements

## CONCEPT

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- TO CREATE A SELF SUFFICIENT , SUSTAINABLE SPACE.
- DESIGNING AS PER THE CLIMATE AND THUS CREATE A LIVING SPACE WITH MAXIMUM ACHIEVABLE HUMAN COMFORT.
- INCORPORATION OF PASSIVE COOLING METHODOLOGIES ‘COURTYARD SYSTEM’ BEING THE KEY FEATURE. IN ORDER TO ACHIEVE THERMAL COMFORT.

## PROJECT FEATURES

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- WORLD CLASS AMENITIES AND LUXURIOUS RESIDENCES.
- AMENITIES: CLUBHOUSE, GUEST HOUSE, CHILDRENS PLAY AREA , JOGGING TRACK , MINI,THEATRE, GYM AND YOGA, SONA SPA, SWIMMING POOL , INDOOR PLAY ARENA, OUTDOOR PLAY ARENA., ETC.

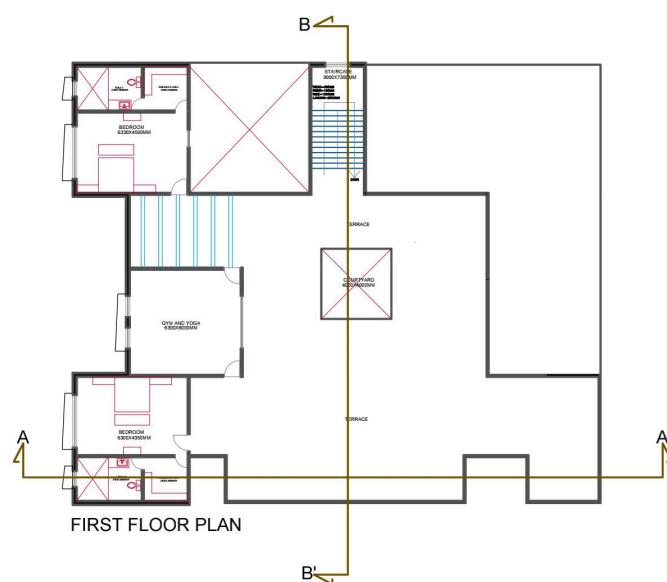
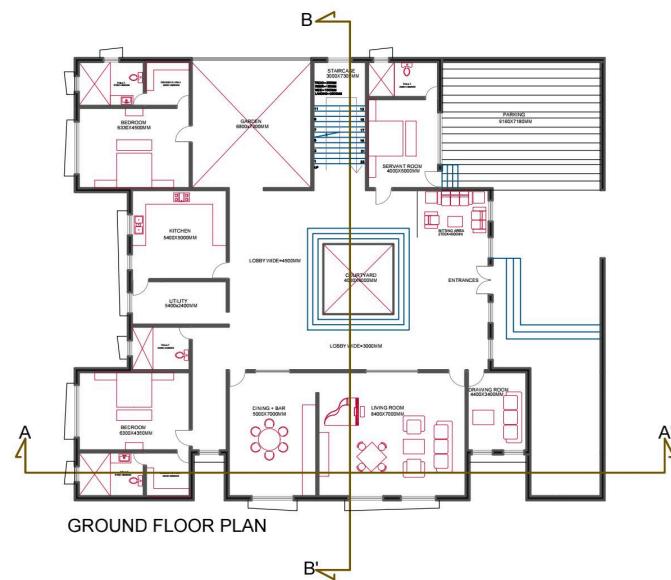
## SITE ZONING AND ROOF PLAN



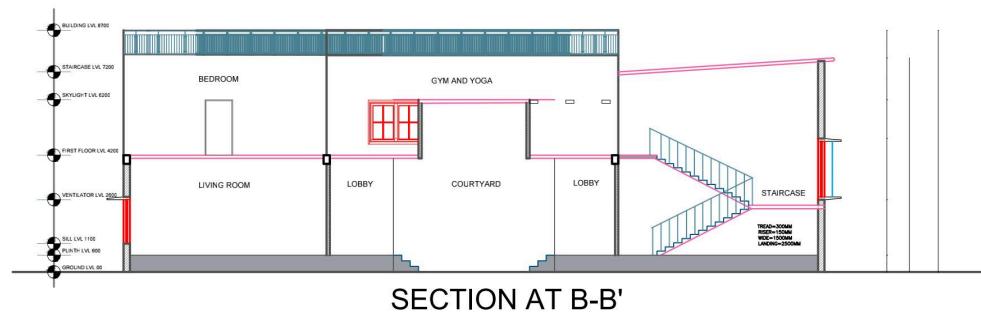
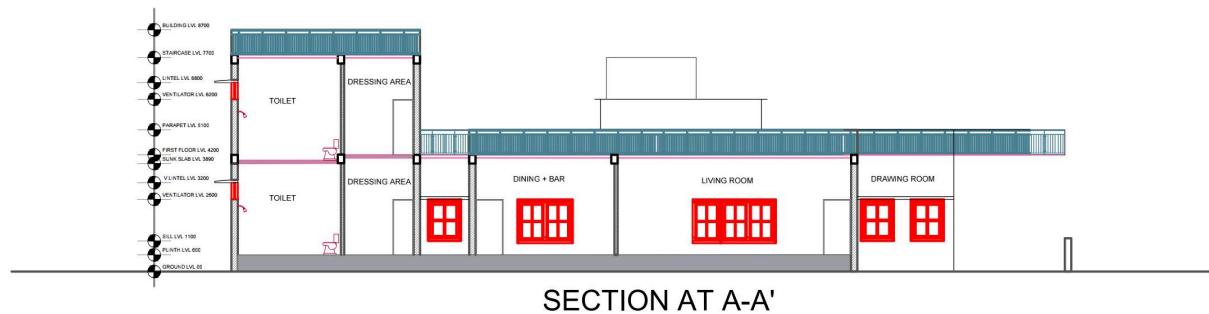
**DETAIL SITE PLAN  
WITH GF DETAIL**



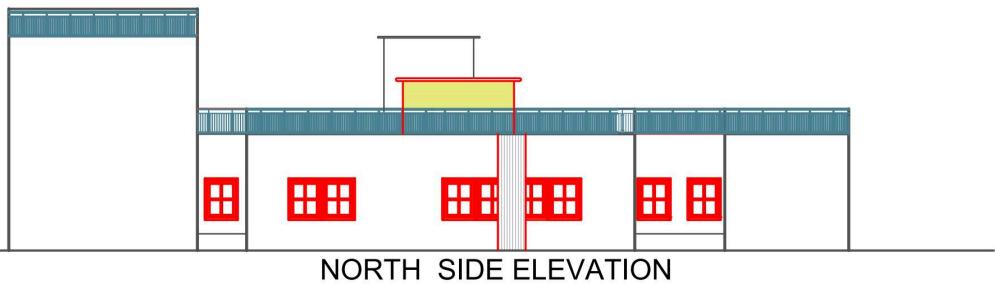
# VILLA FOR VP



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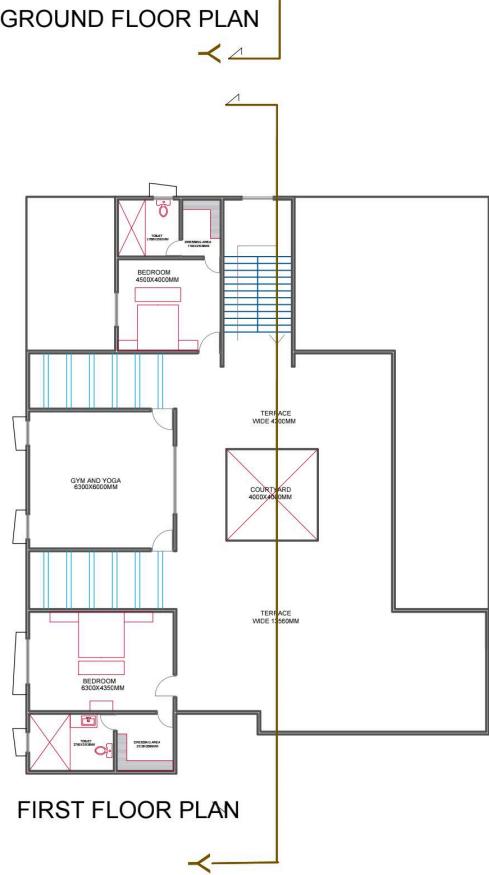
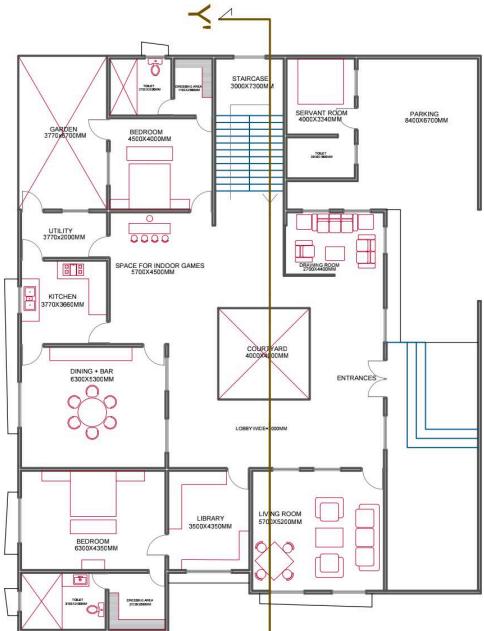


NORTH SIDE ELEVATION

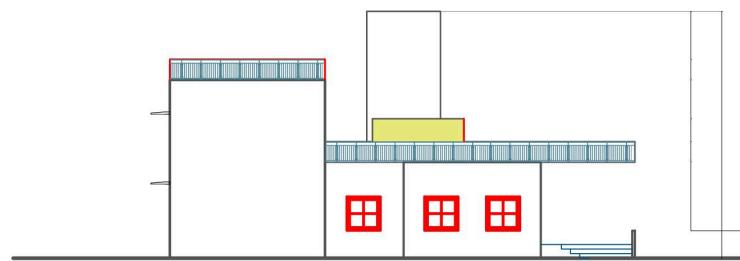
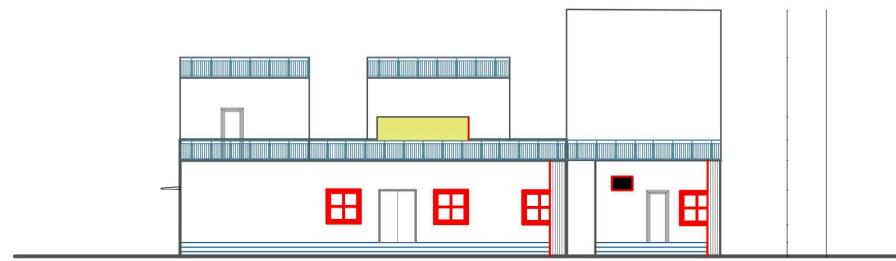
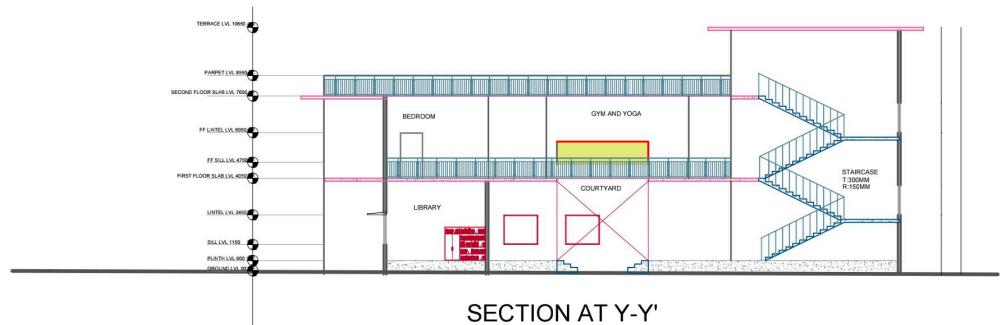


WEST SIDE ELEVATION

# VILLA FOR CEO



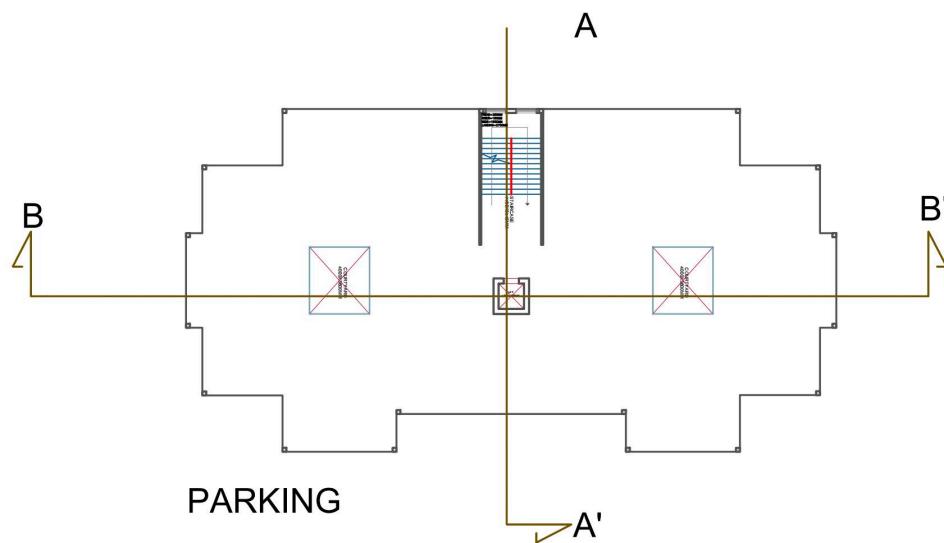
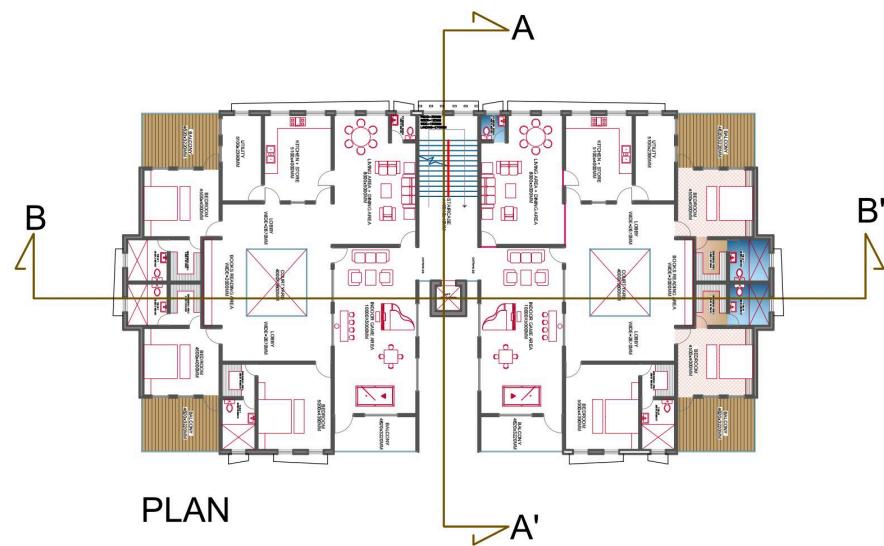
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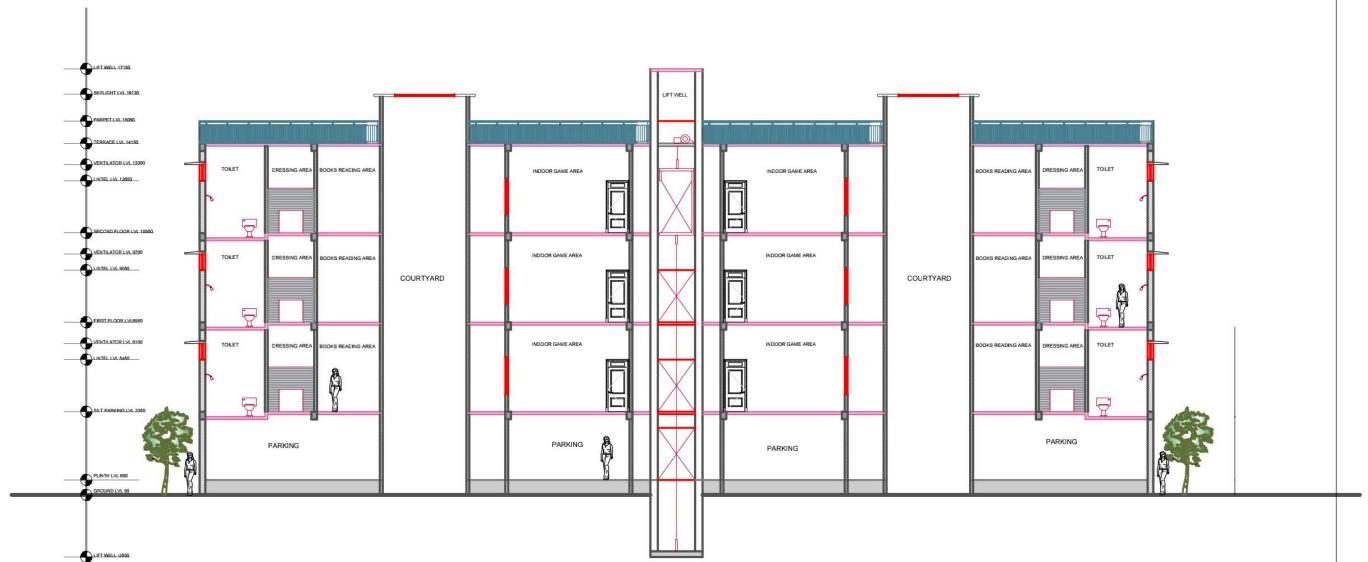




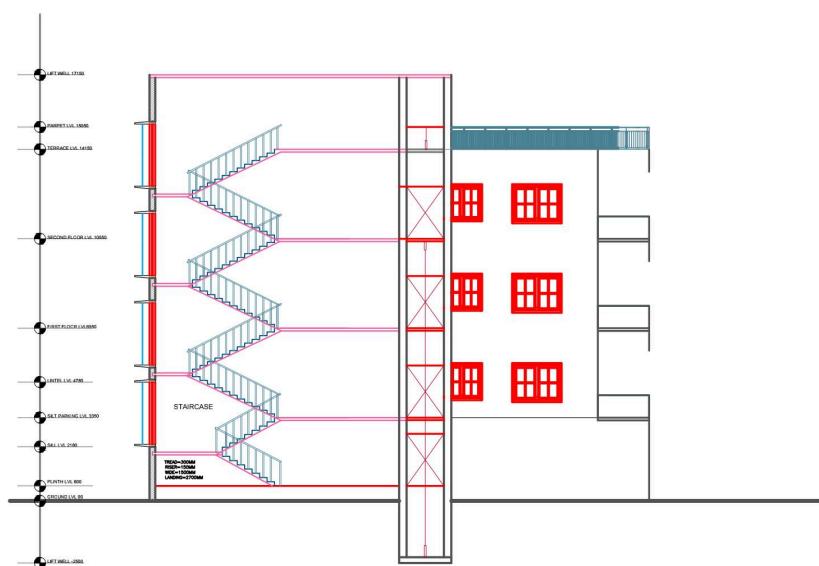
# SENIOR EXECUTIVE APARTMENT



# SENIOR EXECUTIVE APARTMENT



SECTION AT B-B'

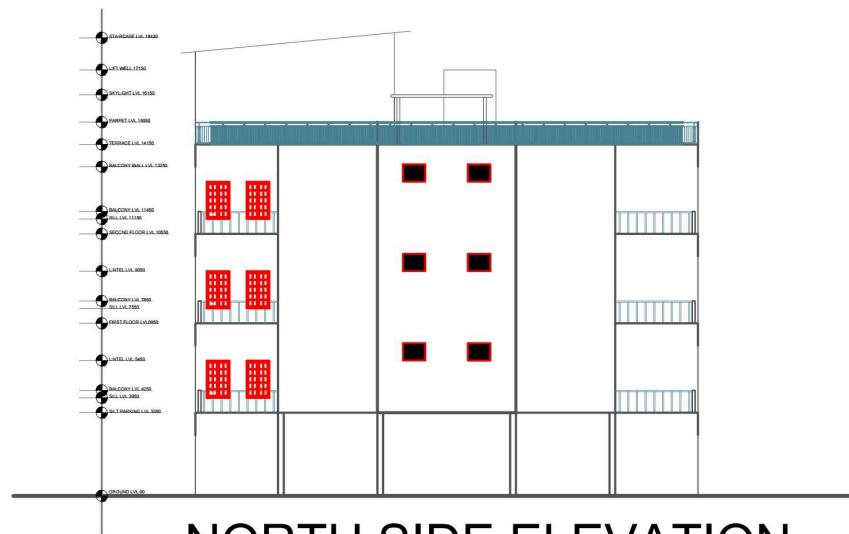


SECTION AT A-A'

# SENIOR EXECUTIVE APARTMENT



EAST SIDE ELEVATION



NORTH SIDE ELEVATION

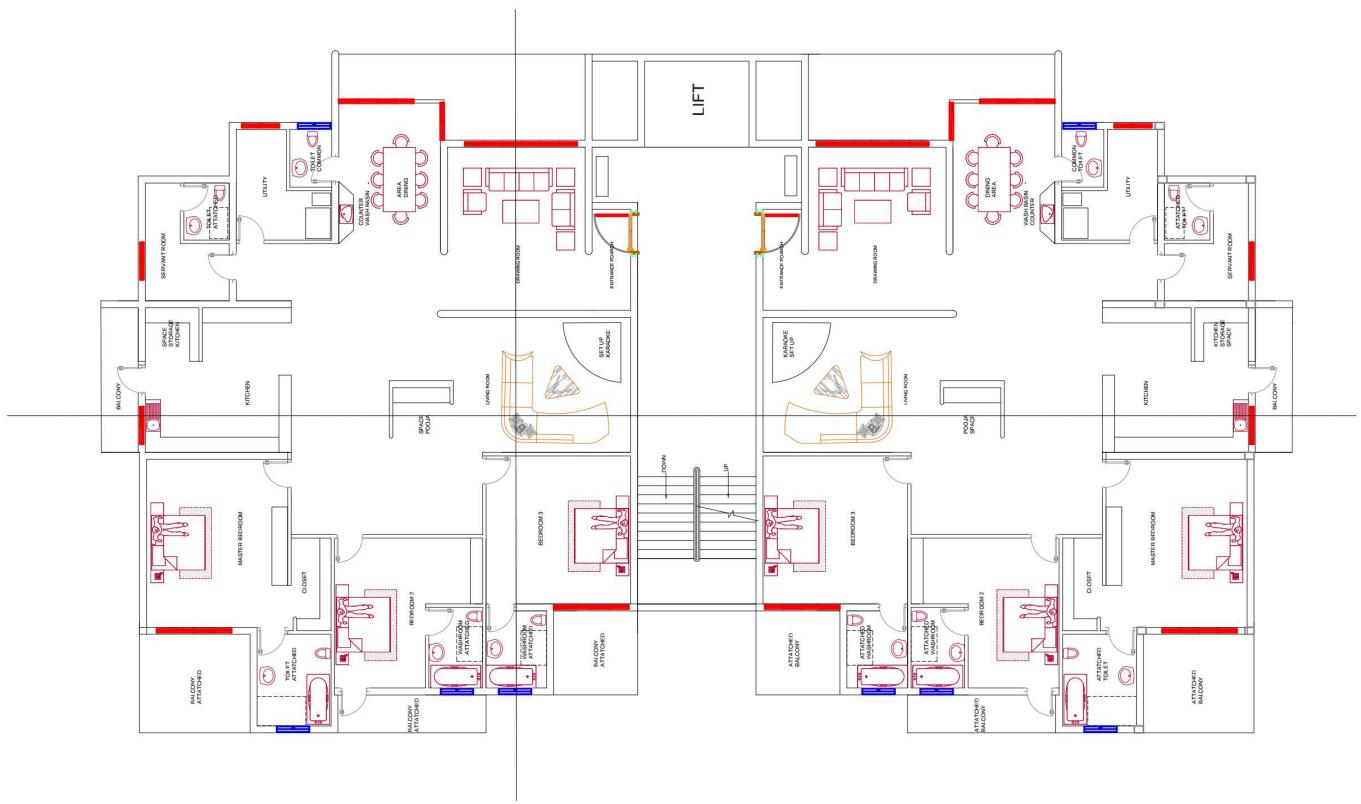




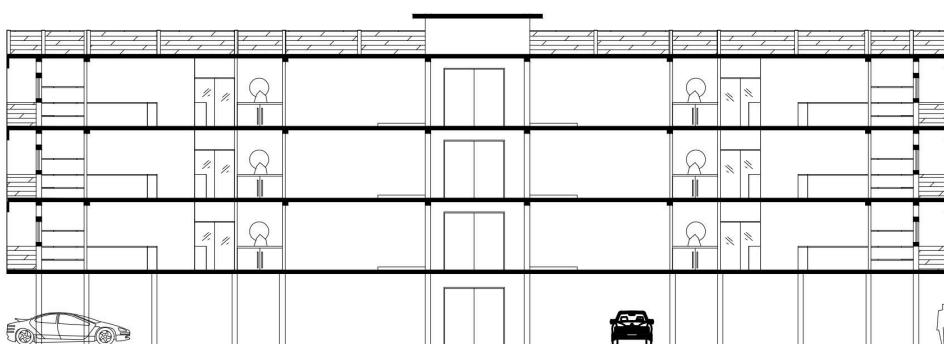
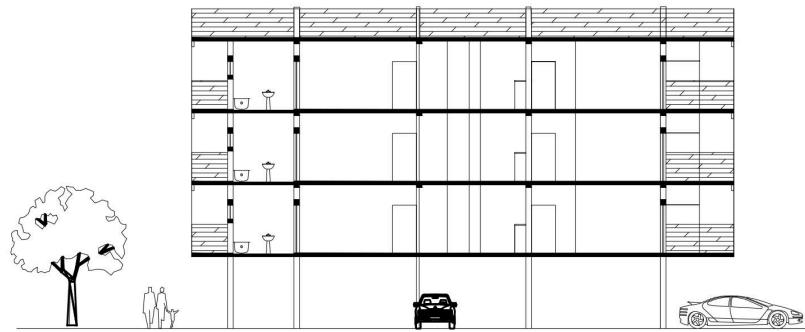




# JUNIOR EXECUTIVE APARTMENT



# JUNIOR EXECUTIVE APARTMENT

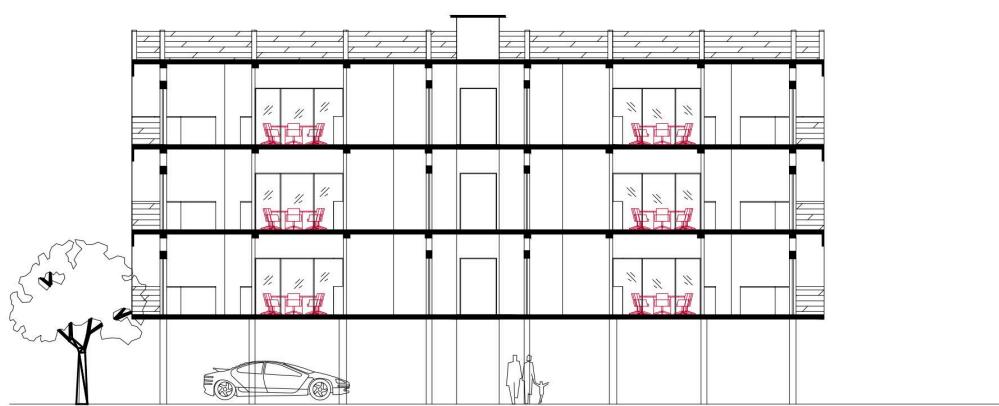
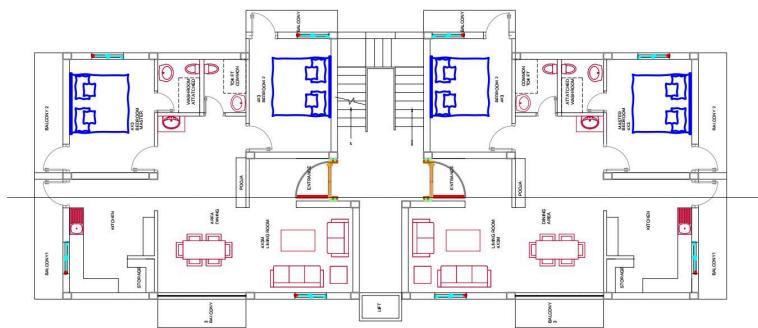








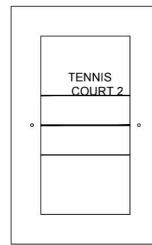
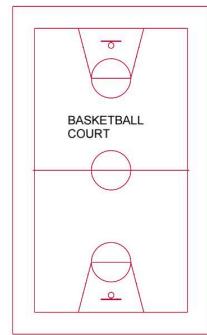
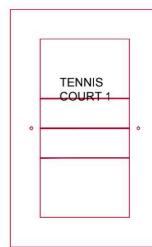
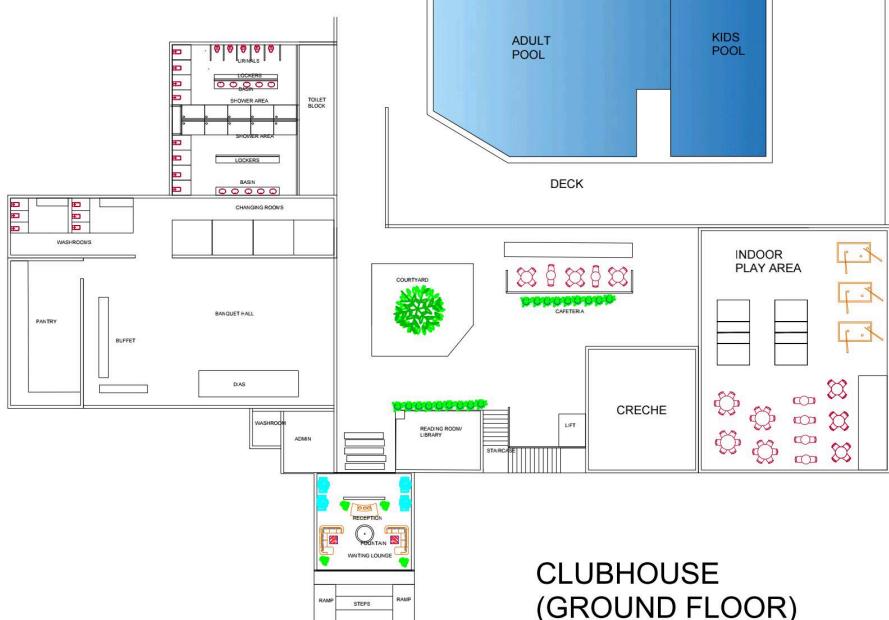
# CARE TAKER'S APARTMENT

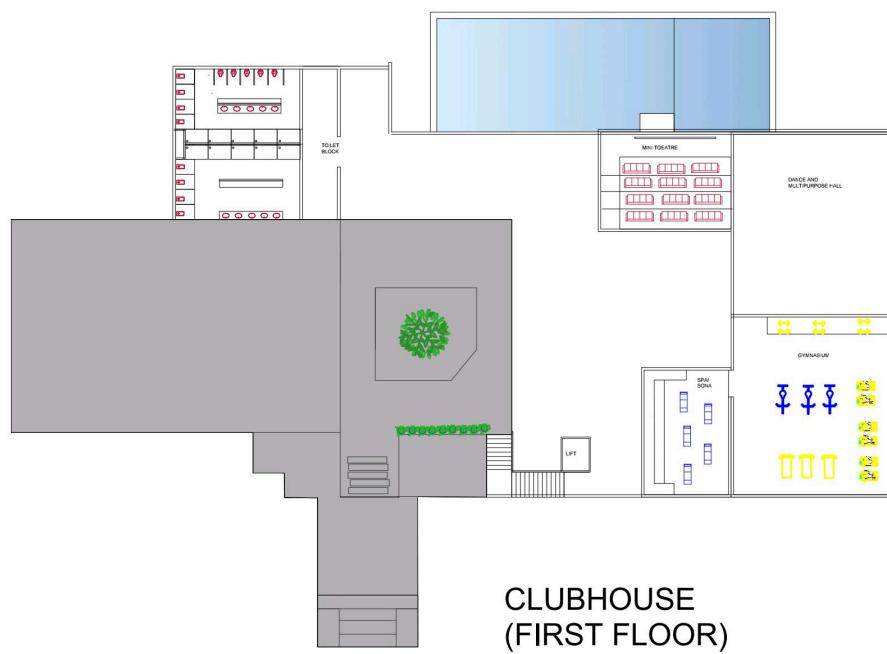




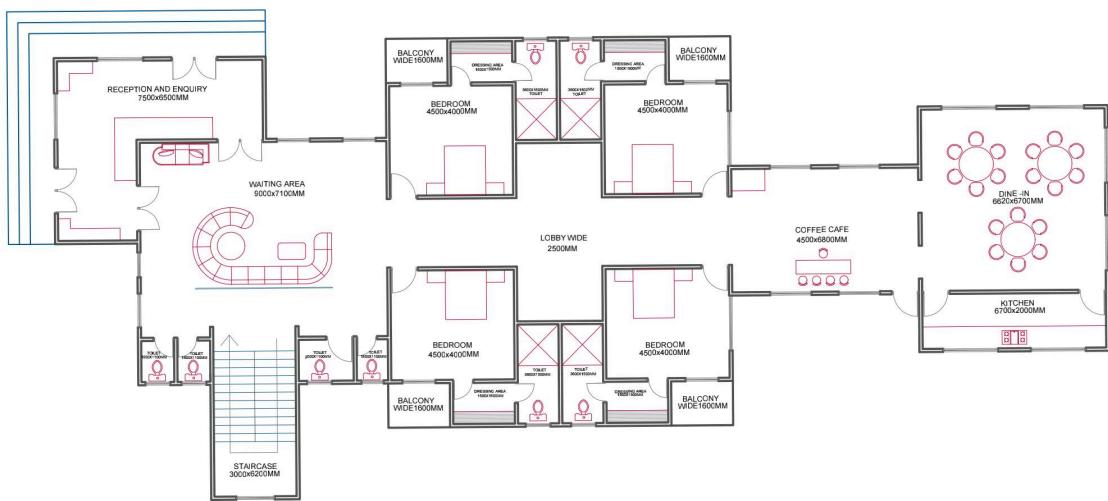








# GUEST HOUSE PLAN





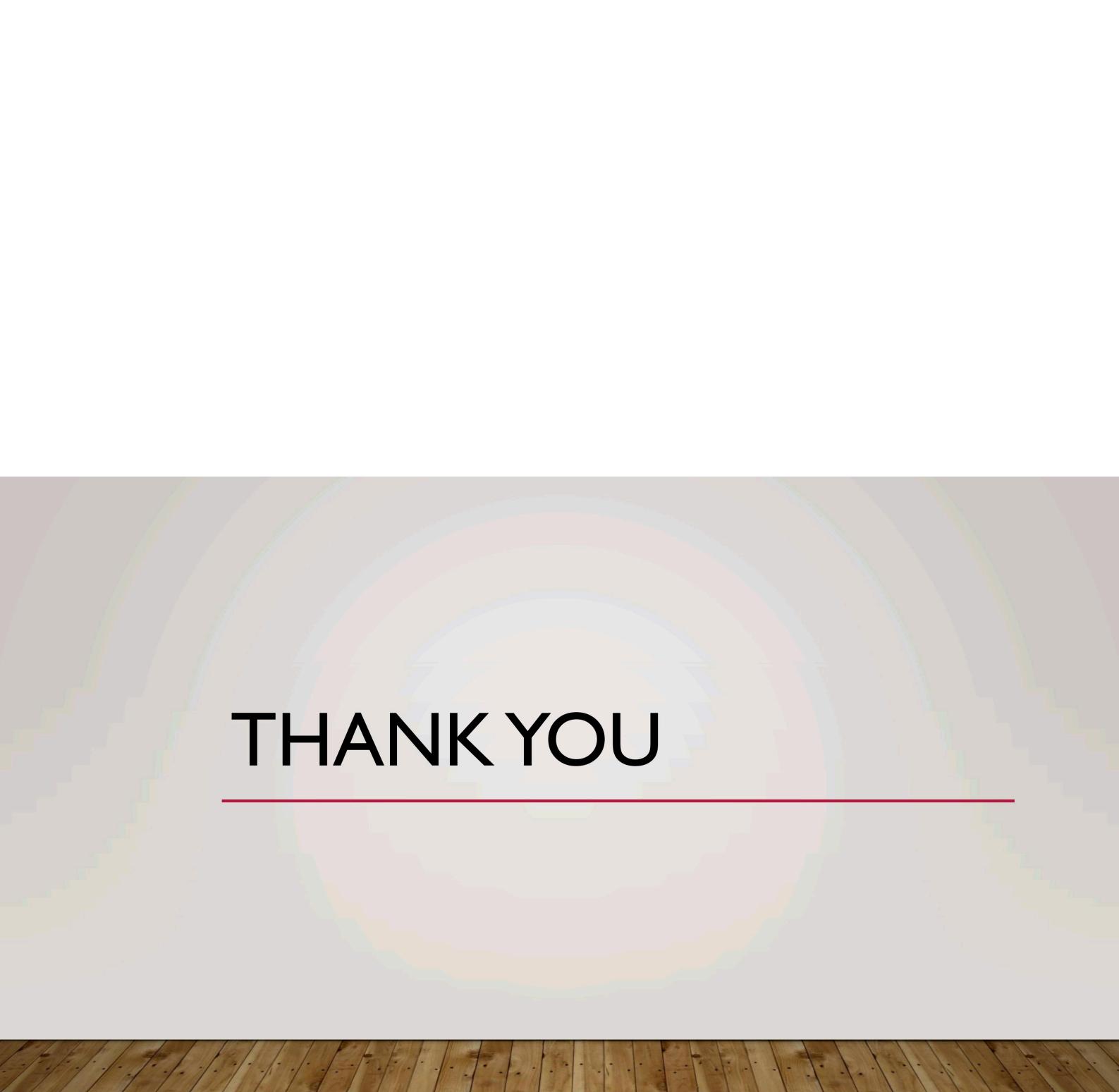




## BRIEF SPECIFICATIONS OF MATERIALS USED.

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- SUPER STRUCTURE: earthquake resistant RCC frame structure.
- High speed lifts , easy staircase,
- FLOORING: vitrifies tiles, marble , wooden flooring.
- KITCHEN: modular type , granite top.
- TOILET: anti skid ceramic tiles , CP fittings of reputed brands.
- EXTERIORS: superior paint finish.
- INTERIORS : POP finish.
- Copper electrical wiring
- Door windows , wooden and flush type.
- BALCONY : anti skid ceramic tiles.



**THANK YOU**

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