



ARCHITECTURAL PORTFOLIO

Ar Anuradha Wanaskar

I am an energy efficient and sustainable architect completed my masters from National Institute of Technology, Tiruchirappalli.

Experience has taught me how to build strong relationships with all departments in an organization. I have the ability to work within a team as well as cross-team. I can work with engineers to resolve site issues and implement architectural details and maintain the work flow and time management.


My focus is mainly in incorporating sustainable features into projects, therefore leaving a minimal impact on the local eco-systems. I also believes we were designed to relate to nature, therefore, a building must reflect the surrounding natural environment where possible.

Incorporating elements such as thermal insulation, natural ventilation, daylighting, etc. have proven to provide a quality environment giving us more enjoyment and productivity in our place of work, social interaction and dwelling.

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EDUCATION

M. Arch : Energy Efficient and Sustainable Architecture.
[July 2016 - May 2018]

: National Institute of Technology
Tiruchirappalli, Tamil Nadu.

B. Arch : Bachelor of Architecture.
[June 2004 – May 2009]

: SSSM'S College of Architecture,
Solapur, Maharashtra

LANGUAGES KNOWN:

Marathi – Mother Tounge

English – Proficient

Hindi - Good

2D & 3D –

Auto Cad ● ● ● ● ●

Sketch Up ● ● ● ● ●

V-ray ● ● ● ● ●

3D Max ● ● ● ● ●

Revit ● ● ● ● ●

ENERGY SOFTWARE

IES ● ● ● ● ●

Trnsys ● ● ● ● ●

Open studio ● ● ● ● ●

Climate Consultant ● ● ● ● ●





TIME LINE

- 2016 ● **M. Arch - Trichy**
Energy Efficient & Sustainable Architecture
 Research Project : Improving the Thermal Performance of the Residential Building by using Passive Solar Design Strategies in Trichy's context.
- 2013 ● **Freelance Architect - Pune**
 Residential and commercial buildings
 Preparing sketches, layouts and drawings.
 2D & 3D modelling for clients approval
 Stayed up-to-date with design trends to ensure that project meets clients expectations
 Coordination with construction managers and engineers for better workflow
 Contributed cost saving ideas with good design suggestion.
- 2011 ● **Senior Architect at ENVIRONS – Pune**
 Industrial and residential project
 Worked on LEED rating Projects
 Worked as a team leader and mentor for 6 people
 Prepare design brief.
 Clients meeting and site supervision
- 2009 ● **Architect at CREATIVE DESIGNS – Pune**
 Residential and interior projects
 Preparing working drawing
 Experimenting with new materials and technology
 PMC and PreDcr drawings.



PROJECTS WORKED ON :

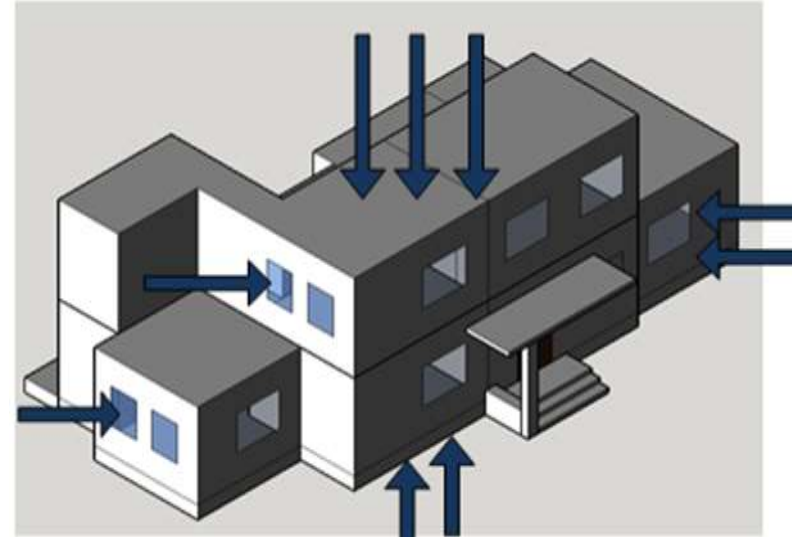
1. Micro Supreme automobile industry, Pirangut, Pune.
2. Akzonobel airborne paint industry, Pune.
3. Digital printing press, Pune.
4. Bungalow at Magarpatta, Pune.
5. Enpro Industries , Alandi road, Pune.
6. Ishanya Mall, Yerwada, Pune.
7. I.T. Building for Deepak Fertilizers Pvt. Ltd. Yerwada, Pune.
8. Blue Bay Resorts & Apartments, Mulshi, Pune.
9. Residential Buildings For Goel Ganga Developers, Pune.
10. Ganga Melrose, Ganga Pavillion, Ganga Orchid, Ganga Estoria.
11. Residential Buildings For Gulmohor Developers, Pune.
12. Commercial & Residential Buildings for Mittal Builders, Pune.
13. Residential Buildings for other Leading Builders, Pune.
14. A Bungalow Extention project – Solapur.
15. Multispeciality hospital at Lonand, Baramati.
16. Residential apartment Hadapsar, Pune.
17. Café interior, Pune.
18. Bungalow cluster at Shewalwadi – Pune.
19. Luxuries Bungalow designs at Shewalwadi – Pune.
20. Girl's Hostel at Baramati.
21. Bungalow at Phursungi, Pune.

PASSIVE SOLAR ARCHITECTURE: Improve The Thermal Performance Of The Residential Buildings By Using Passive Solar Design Strategies In Trichy's Context.

STUDY OF THE BASE CASE :

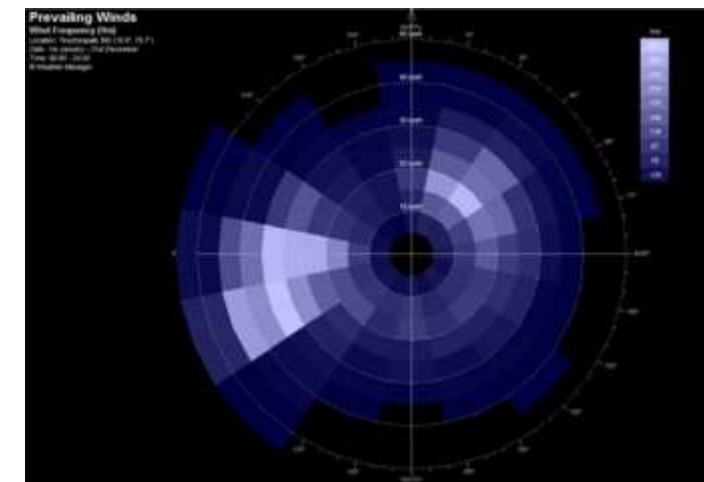
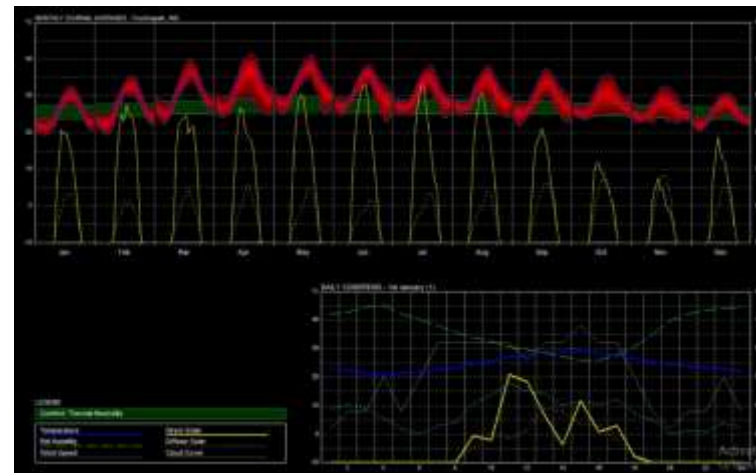
Project type	LOW-RISE RESIDENTIAL BUILDING
Area of Plot	904.50 SQ.M.
Built up area	155.00 SQ.M.
Location	NIT, Tiruchirappalli, Tamil Nadu, IND
Geographically located at	Latitude: 10.77° North, Longitude: 78.72° East, Elevation: 88 m above mean sea level of Cauvery river
Climatic zone	Warm and Humid as per NBC code
Temperature	Max - 34° C during May Min – 25° C during January.
Average rainfall	183 mm
Humidity	53% - 80%
Wind	2 mph from SSW
Sunrise	6.04 am
Sunset	6.30 pm

CLIMATIC ANALYSIS OF TRICHY :

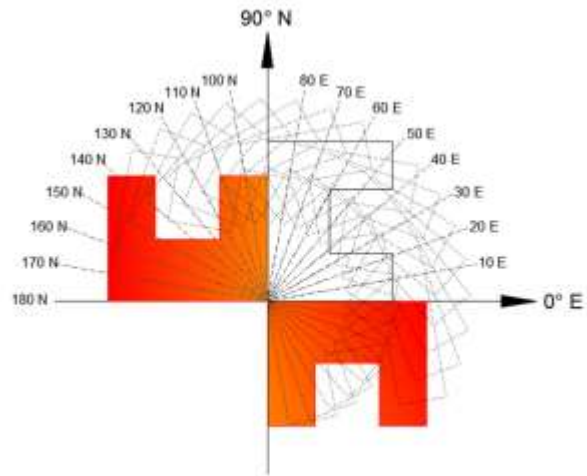
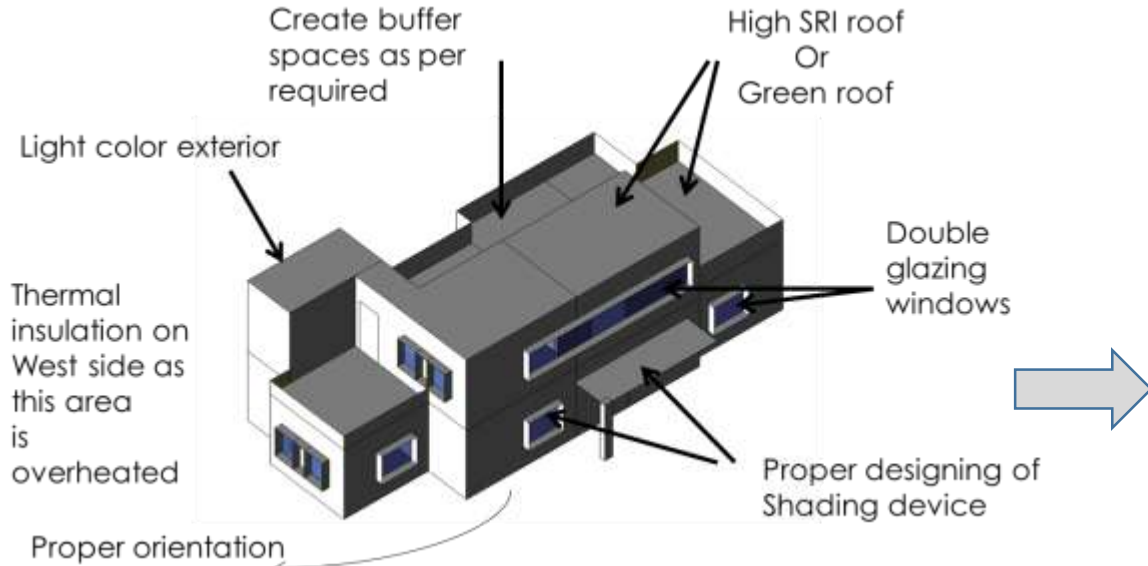


As per ECBC Trichy lies in hot and humid climate zone.

Trichy experiences a very hot summer. The days are overheated and the heat transfers into the building through conduction, convection and radiation. Therefore the indoors of the buildings are hot during the day because of overheated summer and more hot during the night because of heat trapped into the building.

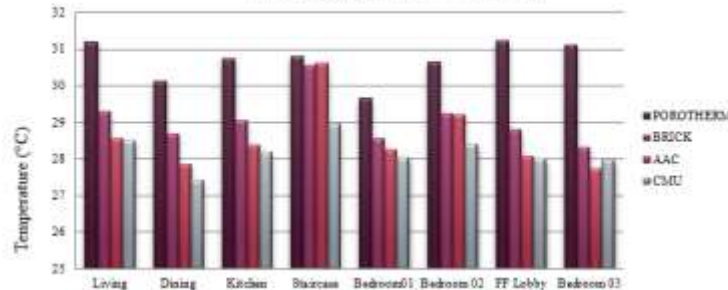


BASE CASE MODEL

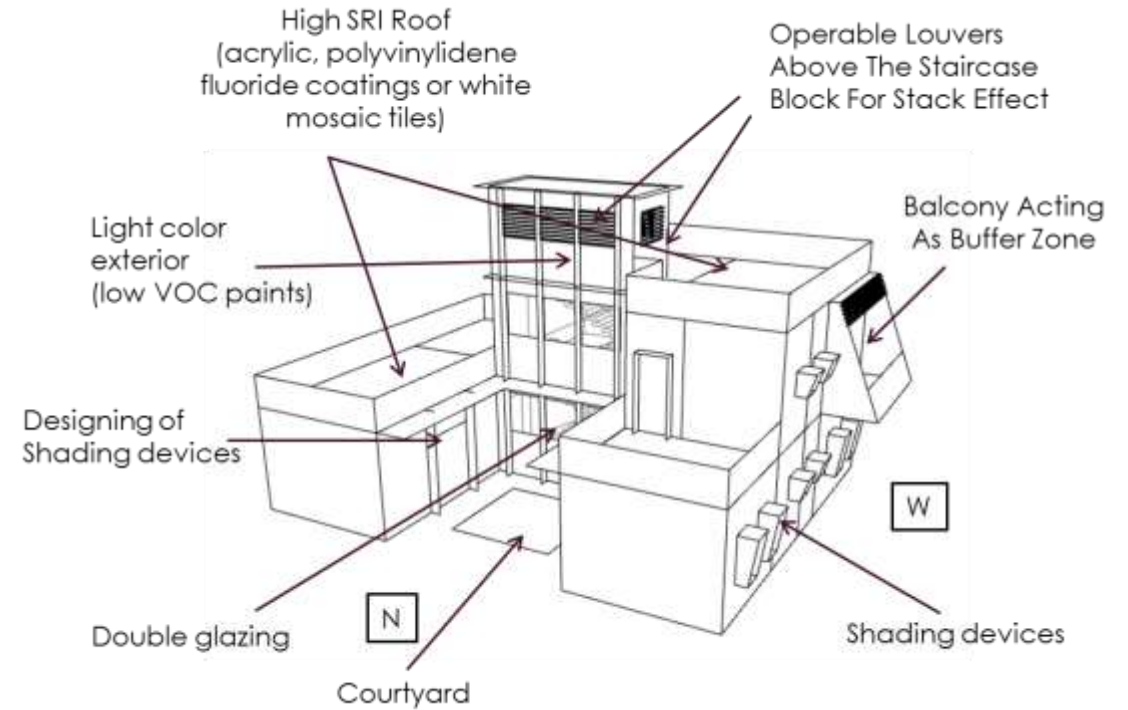


– Simulating the designed building prototype in different orientation from **East to North** to observe the amount of solar radiation falling on the building surfaces.

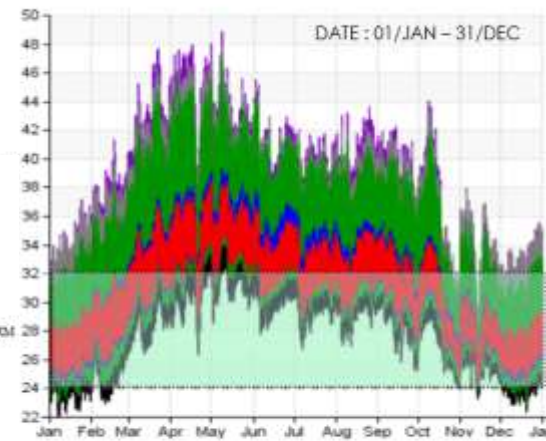
Difference in Mean Temperature after experimenting with different wall materials



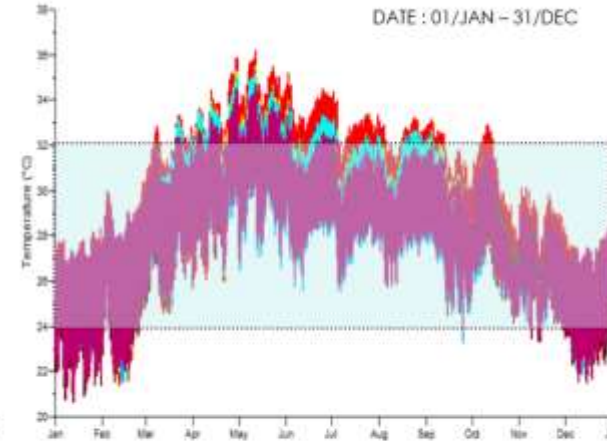
PROPOSED PROTOTYPE MODEL



COMPARATIVE ANALYSIS : COMFORT BAND



EXISTING RESIDENTIAL BUILDING



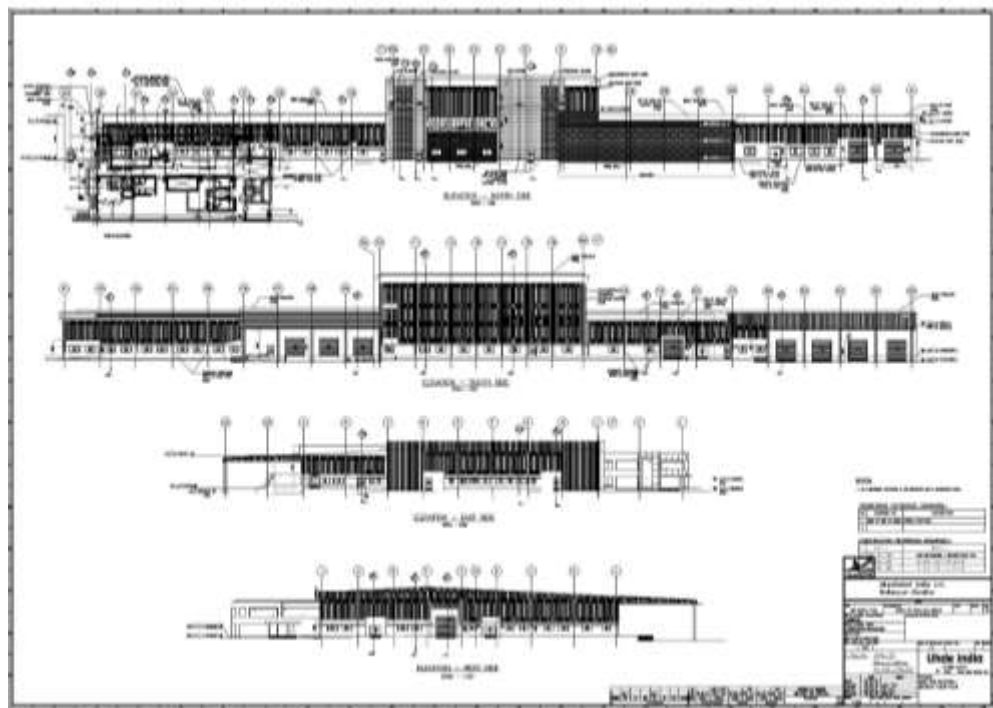
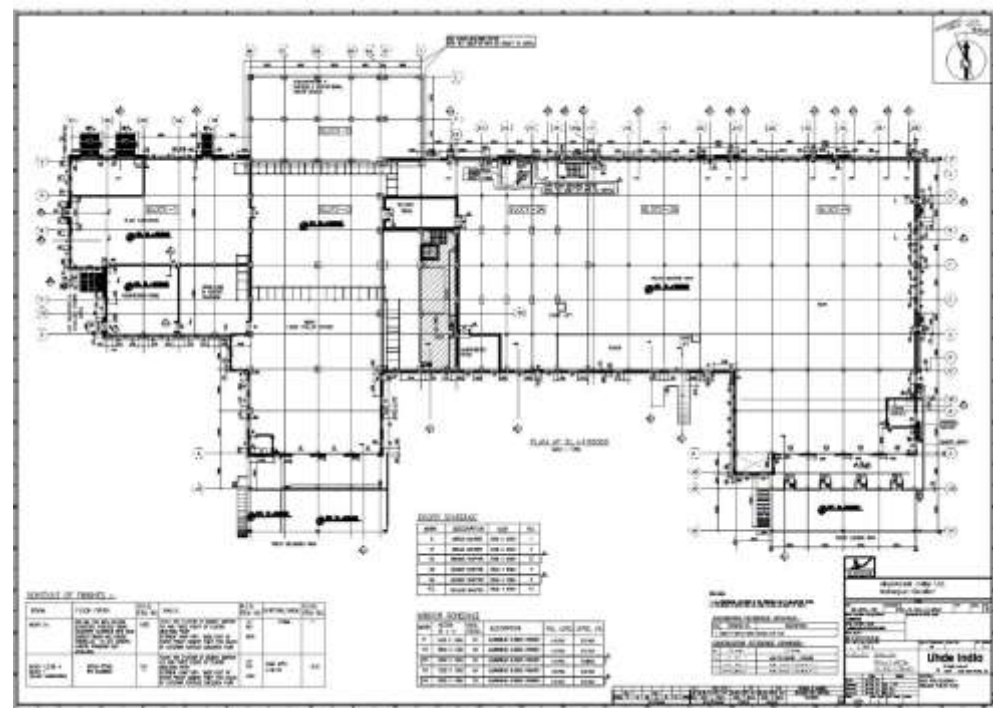
PROPOSED PROTOTYPE BUILDING

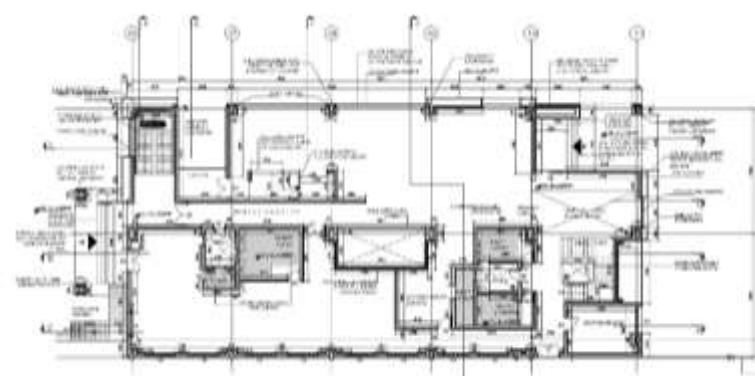
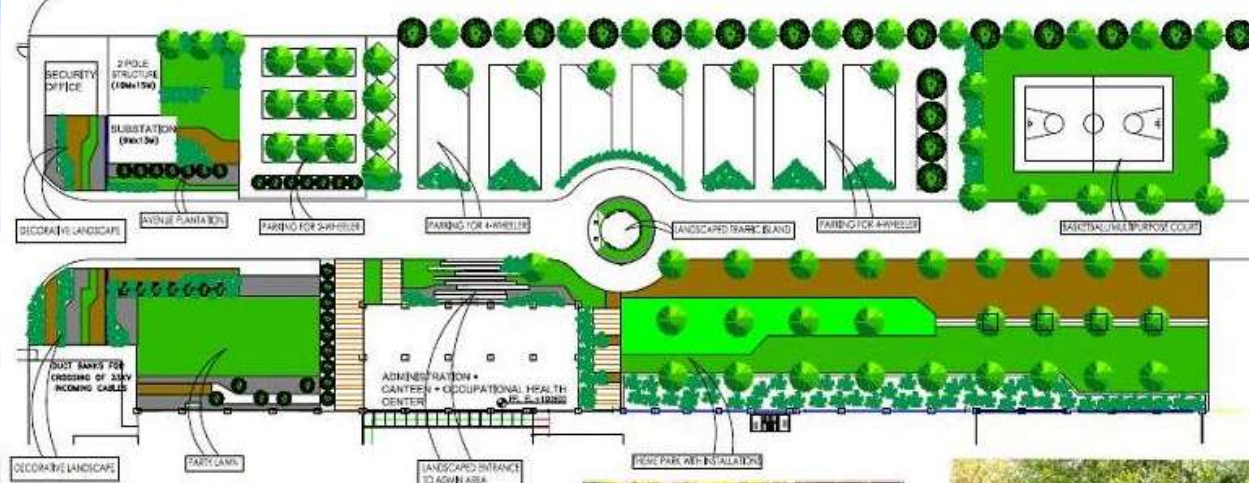
It is observed that the indoor temperature of base case is above comfort zone i.e. 24°C - 32°C where as the temperature of designed prototype building is mostly between the comfort zone.

AKZONOBLE AIRBORNE PAINT INDUSTRY AT GWALIOR

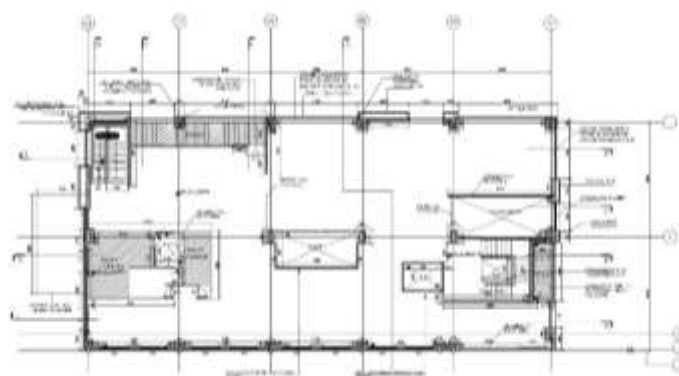
We were successful to achieve this project from one of the most renowned MNC of Pune just to provide architectural drawing support for the airborne paint factory area. The hard work and precision of drawing was noticeable by the company which helped our office to win the project for administration development of this factory. Where we planned the office building right from the conceptual plans further our work extended on interior of the same office building leading with landscaping.

The whole project was focused on sustainable features which provide the environment friendly work atmosphere and aesthetically pleasing structure.

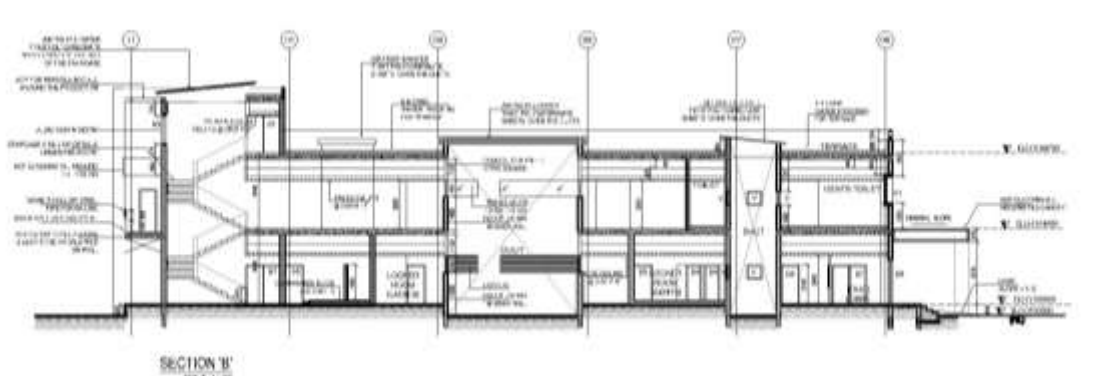


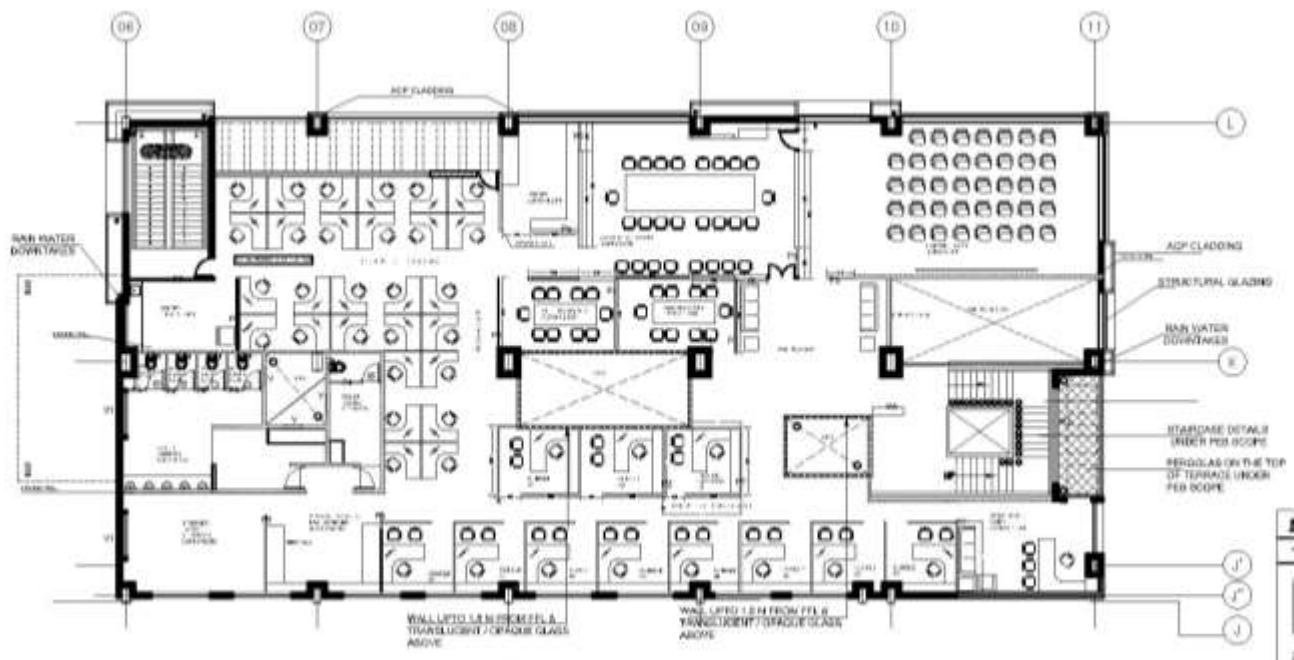
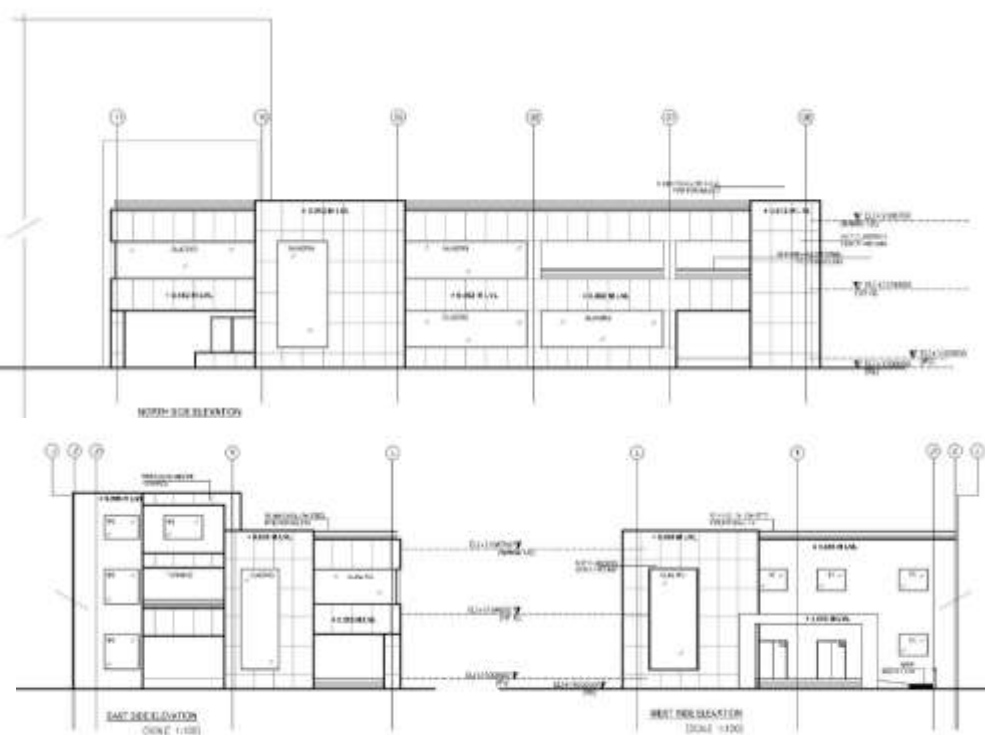


FLOOR PLAN 2100000



FLOOR PLAN 2100000





GROUND FLOOR -PARTITION LAYOUT

FIRST FLOOR -PARTITION LAYOUT



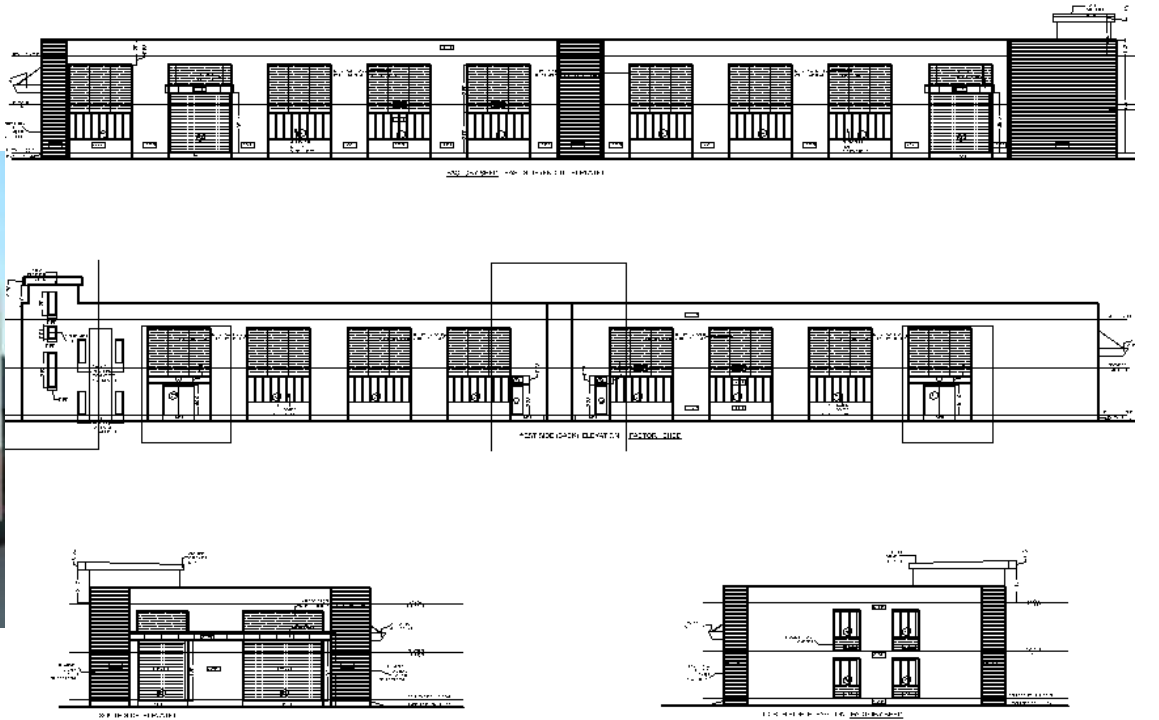
GROUND FLOOR PLAN



FIRST FLOOR PLAN



MICRO SUPREME AUTO INDUSTRY

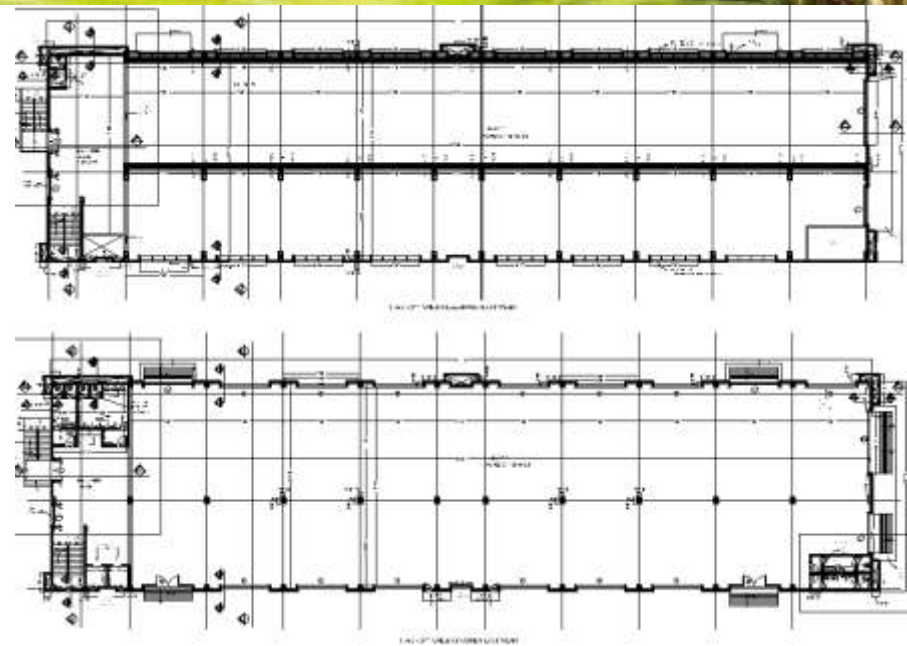


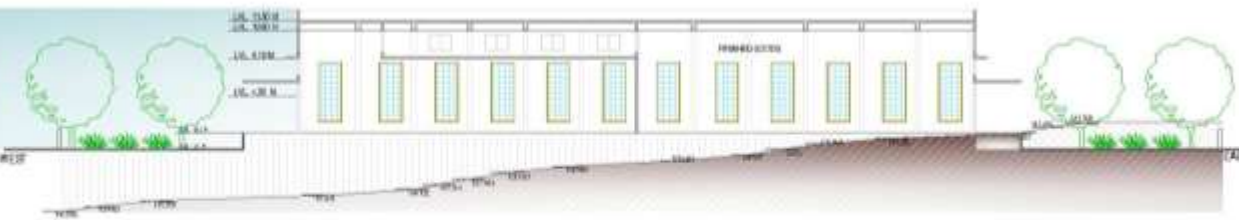
Micro Supreme Auto Industry is an industry which deals with automotive and precision engineering. The whole campus was designed to improve environmental performance, prevent pollution by minimizing waste generation, and provide environment friendly work culture. The building was designed by taking advantage of local climate and topography of the site. The structure consisted of pre-cast elements and energy efficient building materials. It was taken such a care that this project would get selected for LEED certification.





SITE LAYOUT PLAN -





SECTION THROUGH FINISHED GOODS AND RAW GOODS



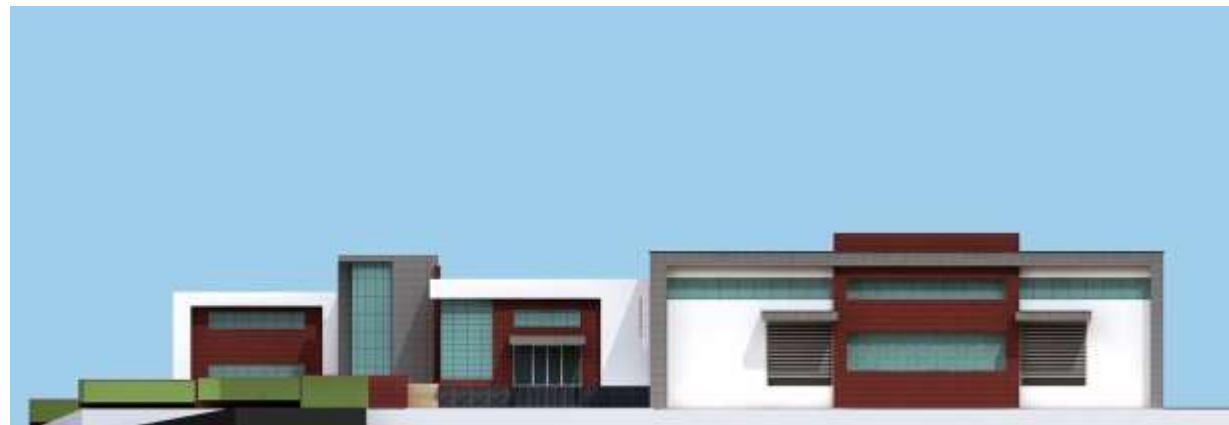
PROPOSED PRINTING PRESS BY JEEVAN

Concept – was to design a factor area which will be environment friendly and provide penetration of more and more natural light in the indoor areas. While maintaining its aesthetic and modernization



SAMRUDDH AT AMBEGAON, PUNE

The use of energy efficient glazing was adopted to take advantage of more natural light into the working area. The glazing of low E value to reflect solar radiation and low U value to maintain the heat transfer was considered.

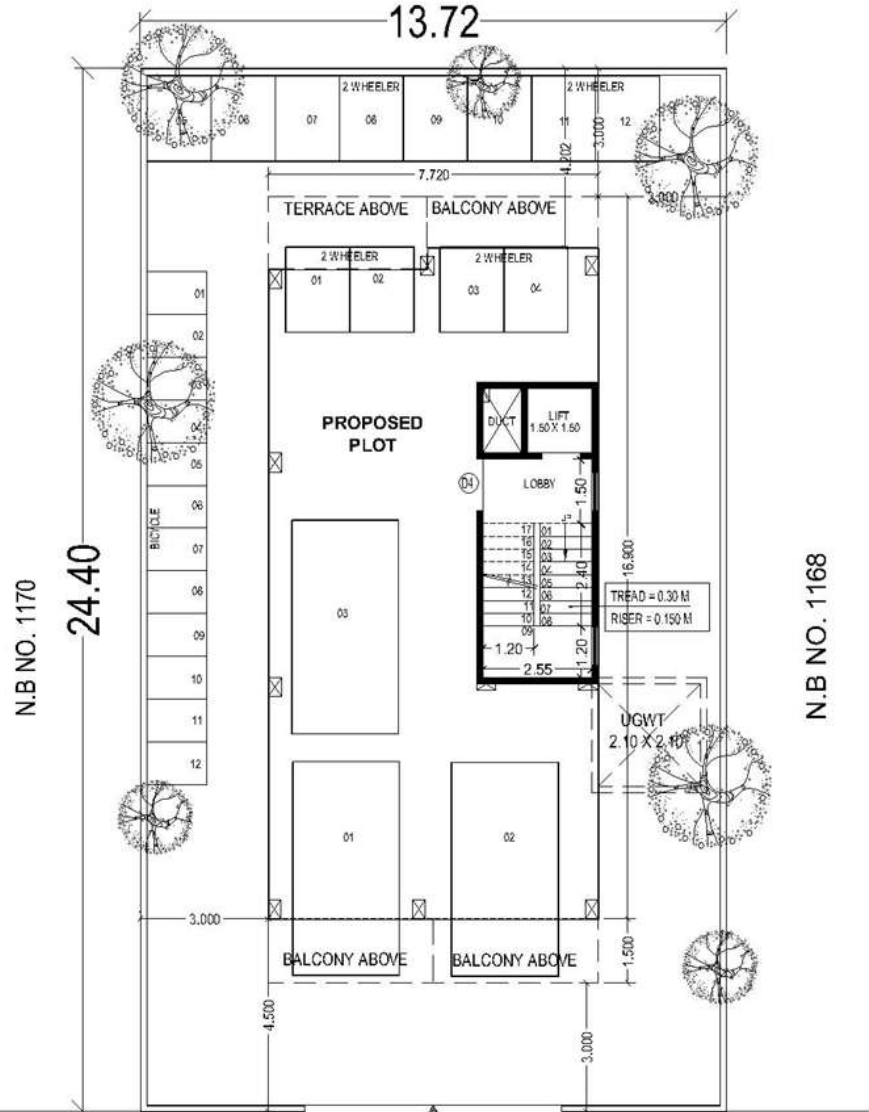


Elevations of the Factory Building

AREA STATEMENT : PROPOSED PRINTING PRESS @ AMBEGAON		
	BUILDING SIZE	AREA IN SQ.M.
1) PRINTING PRESS	65.00M X 19.00M	1235 .00 SQ.M.
2) RAW GOODS	30.00M X 14.00M	420 .00 SQ.M.
3) FINISHED GOODS AREA	30.00M X 14.00M	420 .00 SQ.M.
4) ADMINISTRATION AREA	23.00M X 10.00M	460 .00 SQ.M.
5) NOTARY DOCUMENTATION	18.00M X 10.00M	360 .00 SQ.M.

N.B NO. 1189

13.72



N.B NO. 1170

24.40

PROPOSED PLOT

ENTRANCE

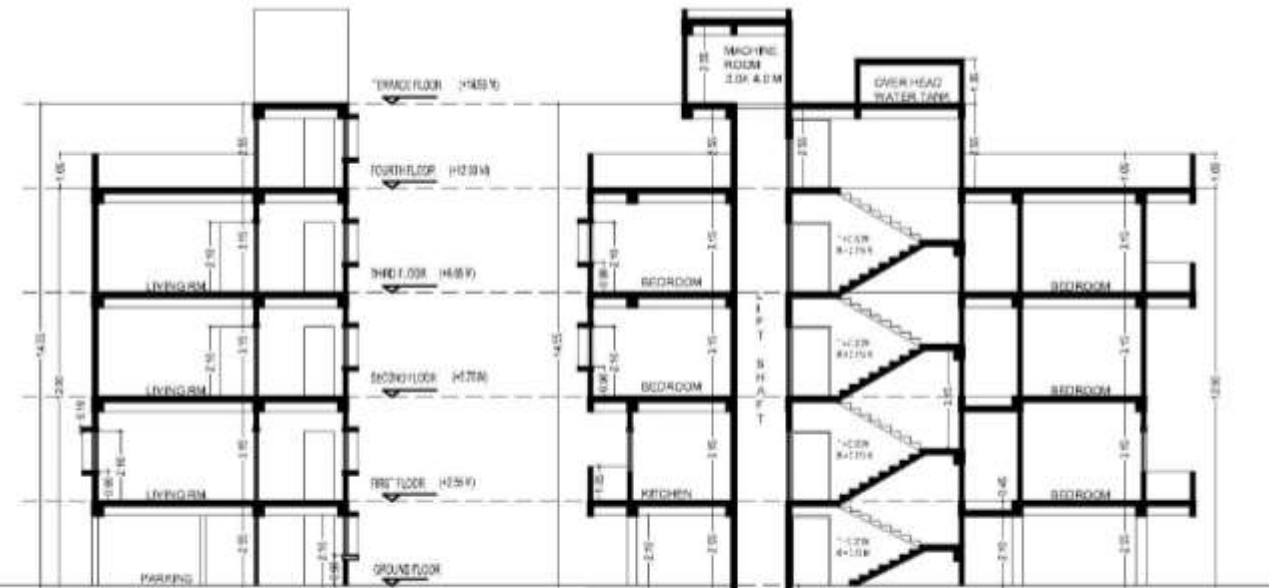
← ROAD →

SITE PLAN

SCALE - 1: 100



N.B NO. 1168

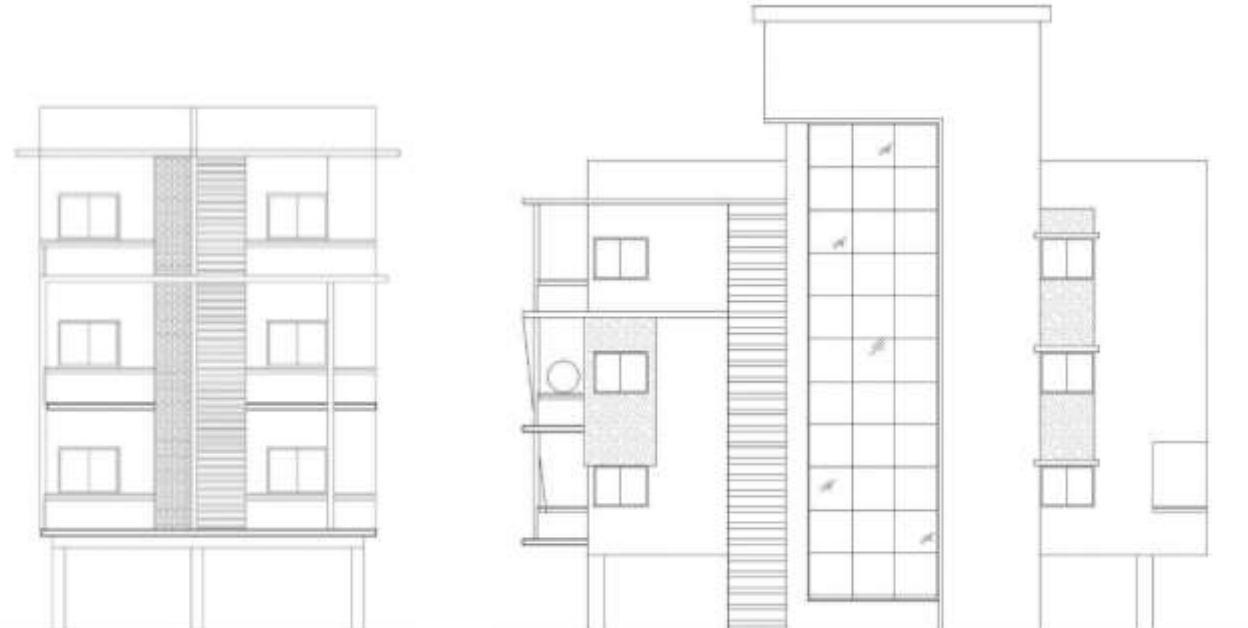


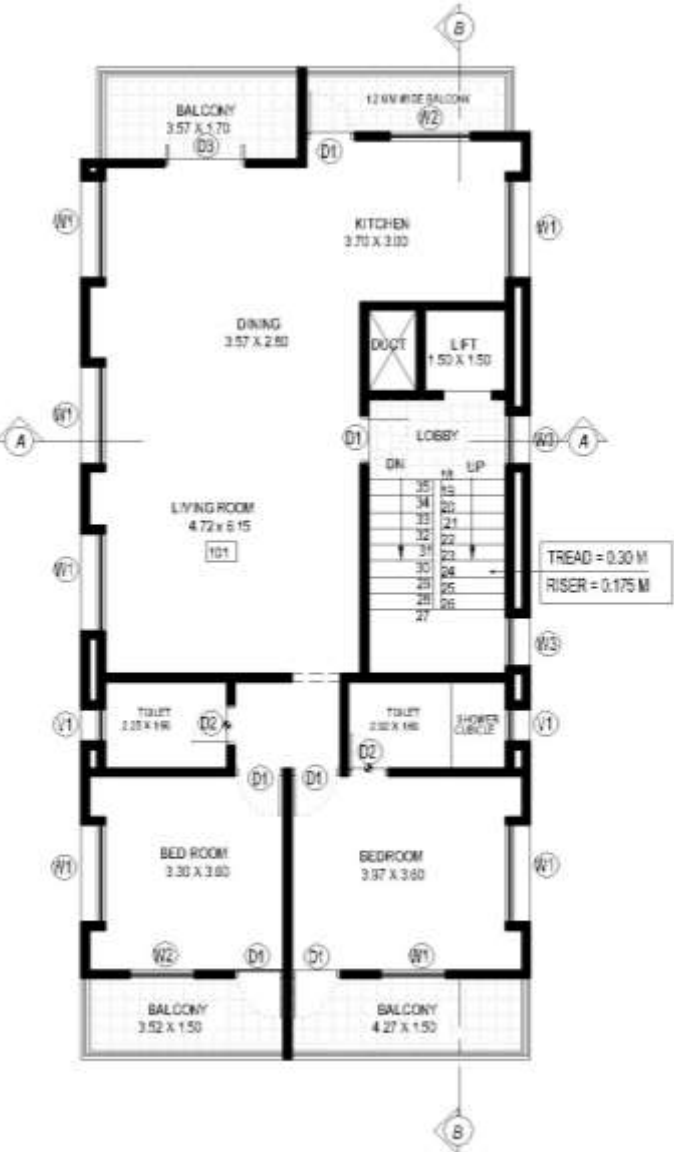
SECTION -AA'

SCALE - 1: 100

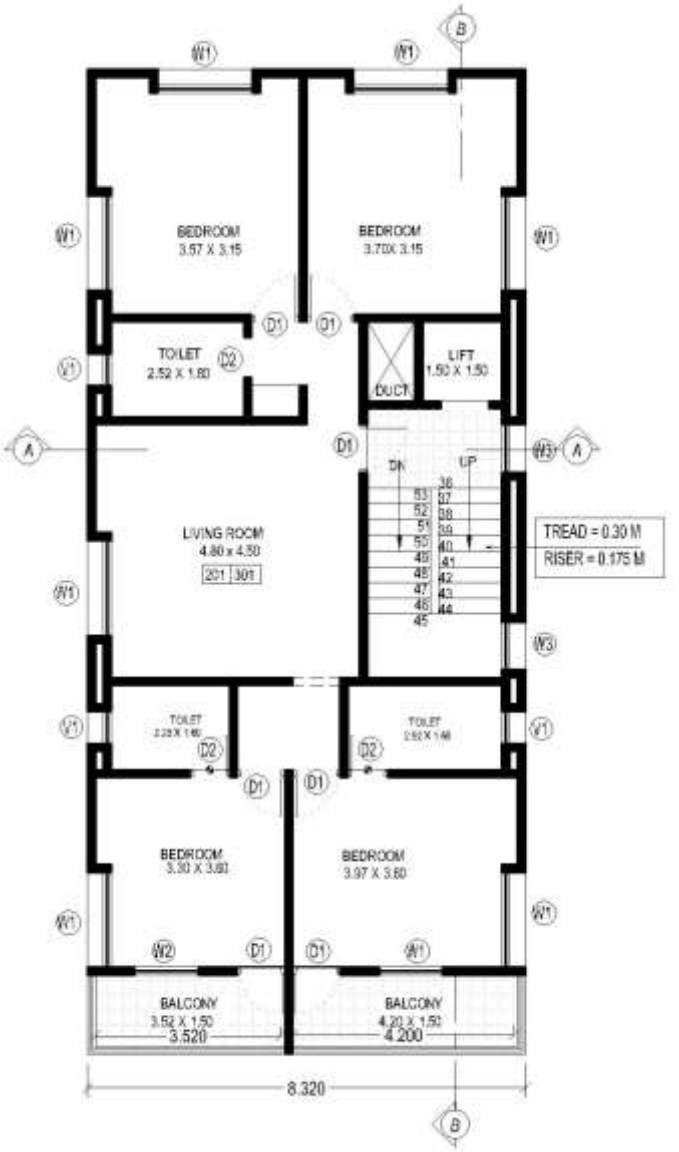
SECTION -BB'

SCALE - 1: 100





FIRST FLOOR PLAN



SECOND & THIRD FLOOR PLAN



Residential multipurpose building, Pune.

BUNGALOW FOR AN INDUSTRIALIST

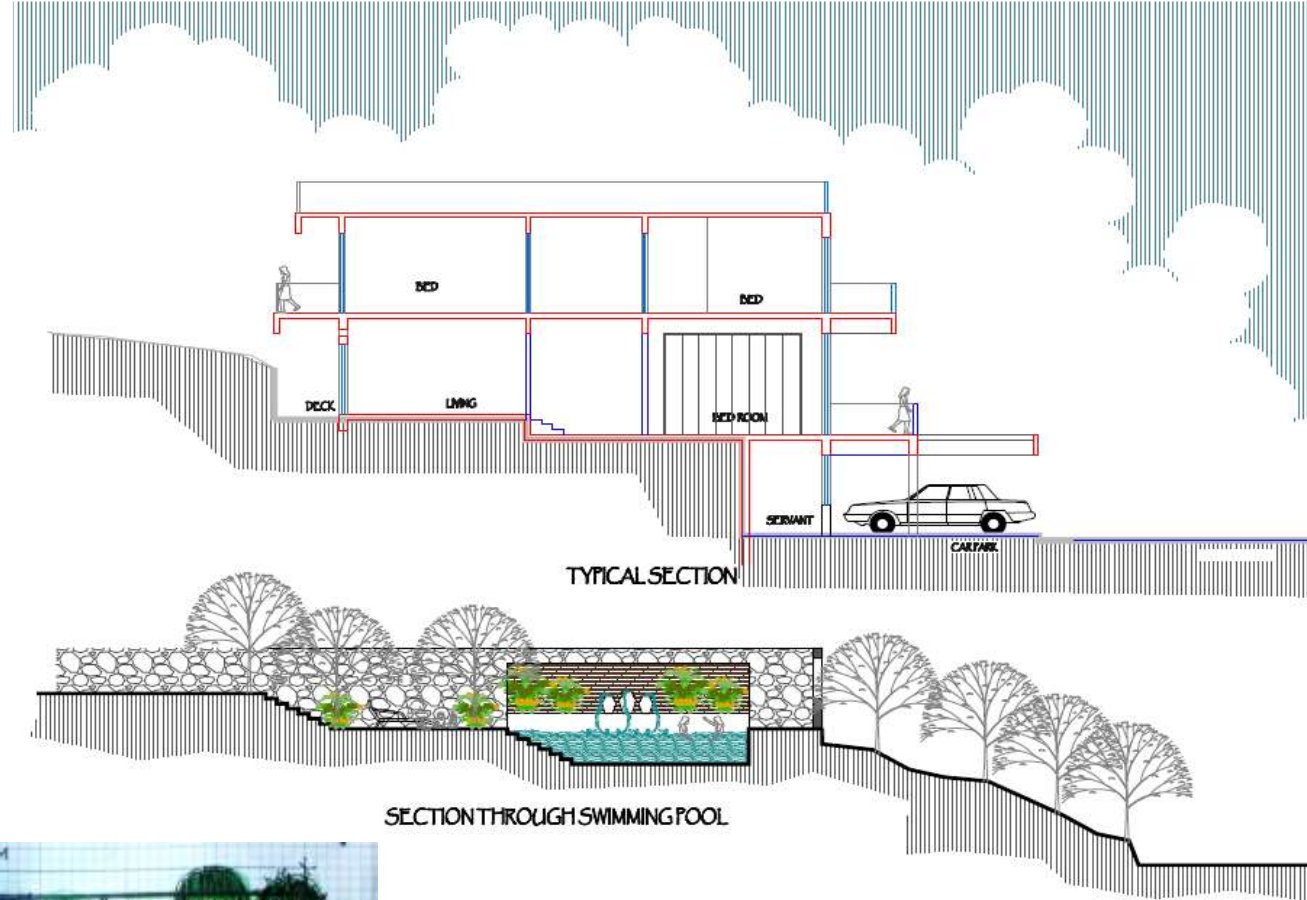
The site was challenging and yet the biggest challenge was to design a spacious and functional bungalow to meet clients demand and standards. The building was designed which made harmony with site landscape and yet gave.



the modern feeling with the interiors. The materials used for interiors were mostly imported from China and the combined with local materials for the creativity.

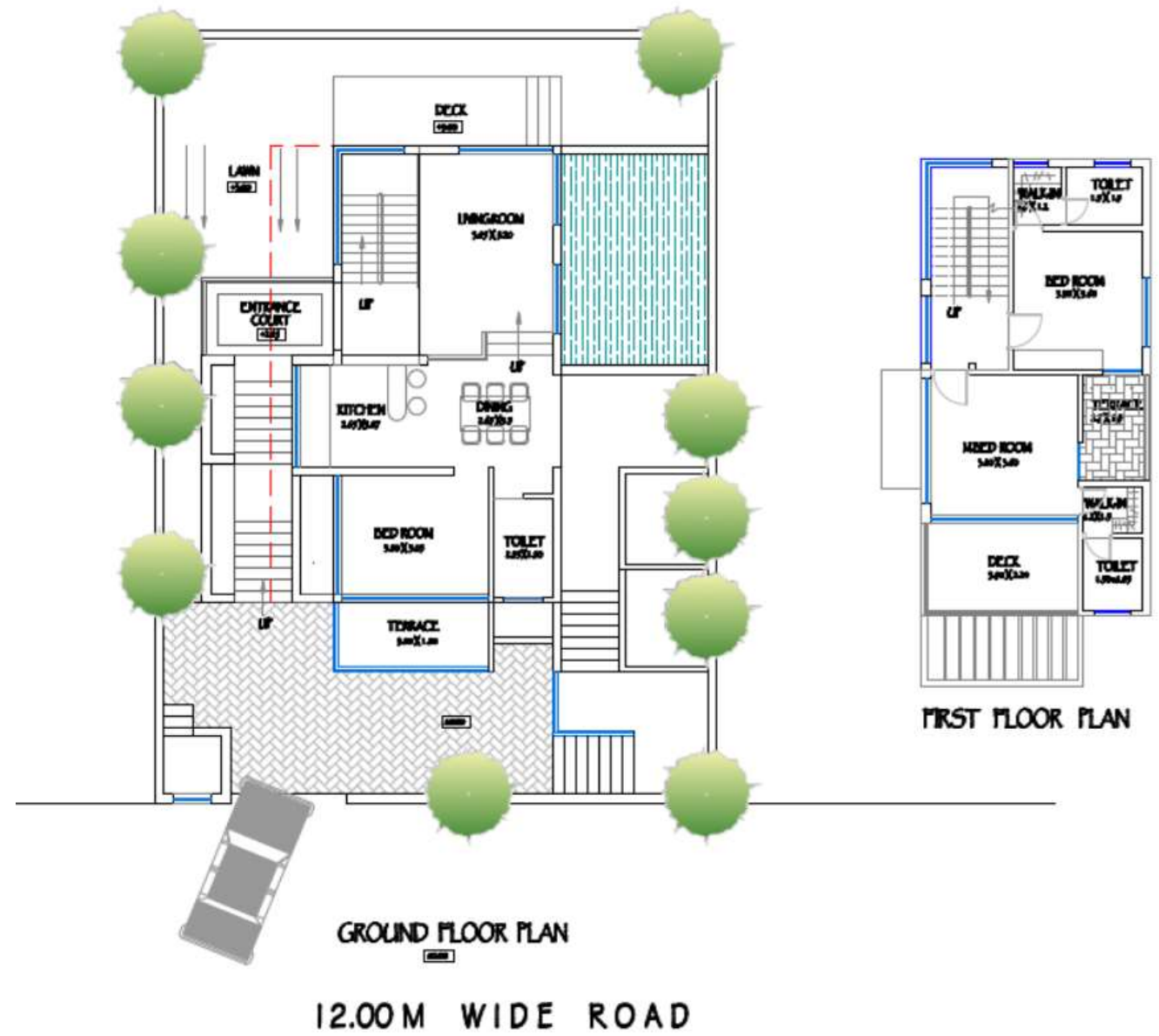
The bungalow was constructed by using energy efficient concept by using VOC paints, low flow fixtures, use of natural light which allow maximum daylight and save the electric energy.



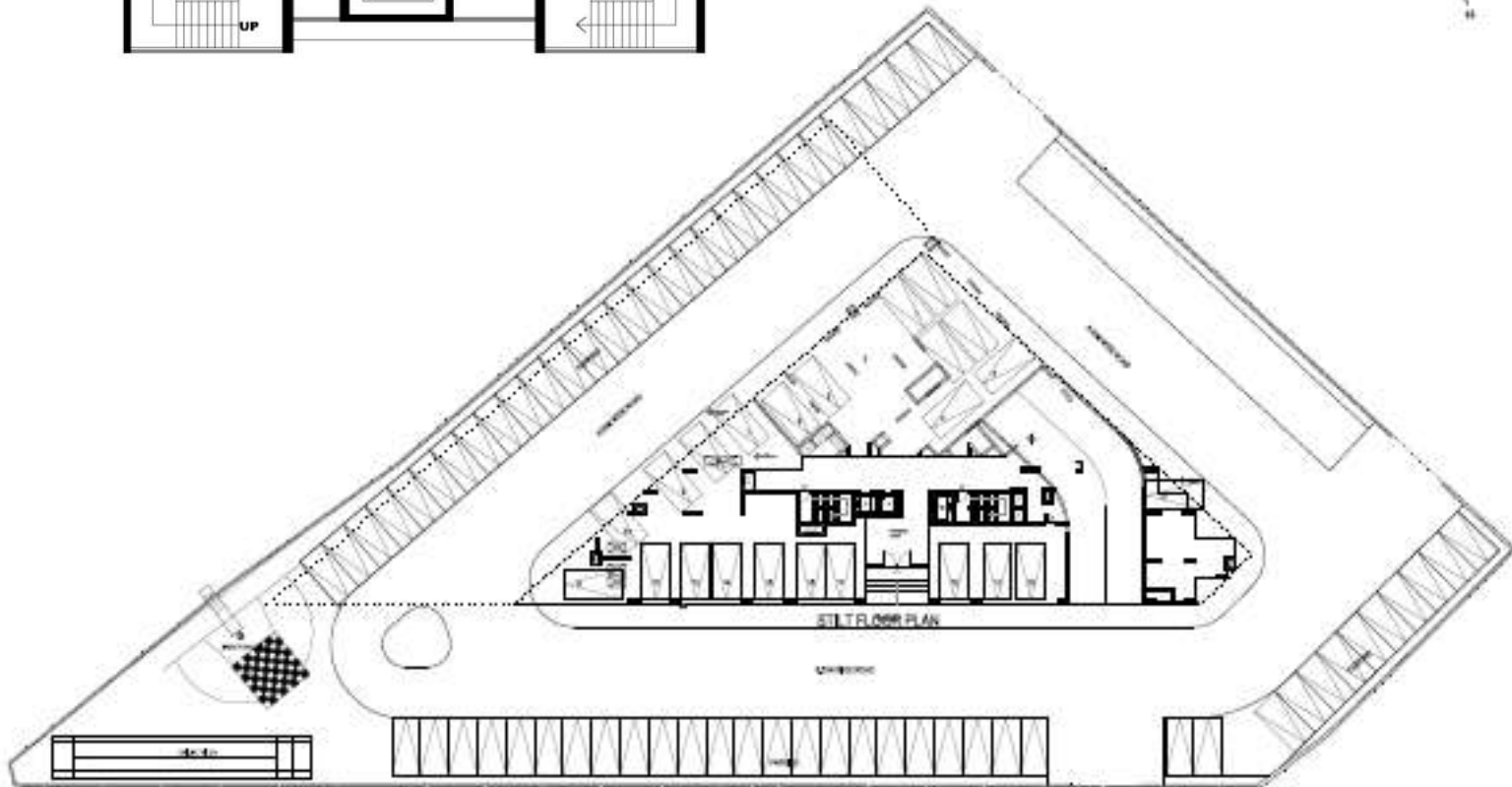
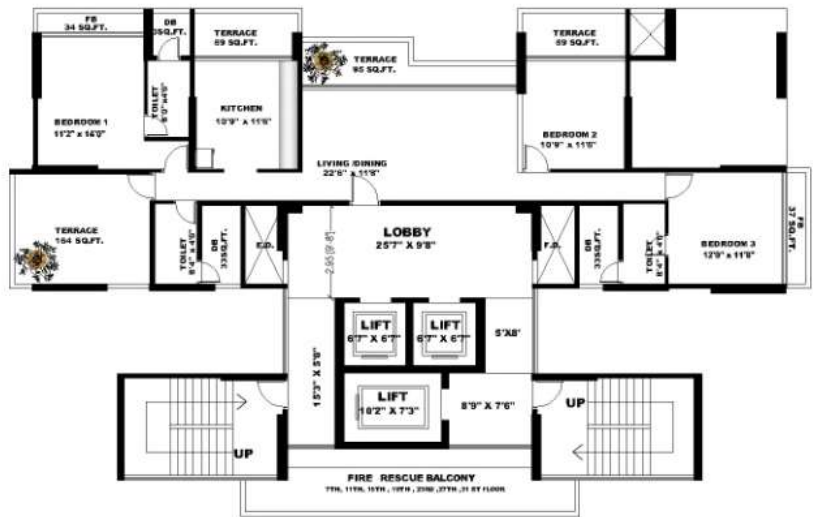


PROPOSED BUNGALOW IN MAHABLESHWAR

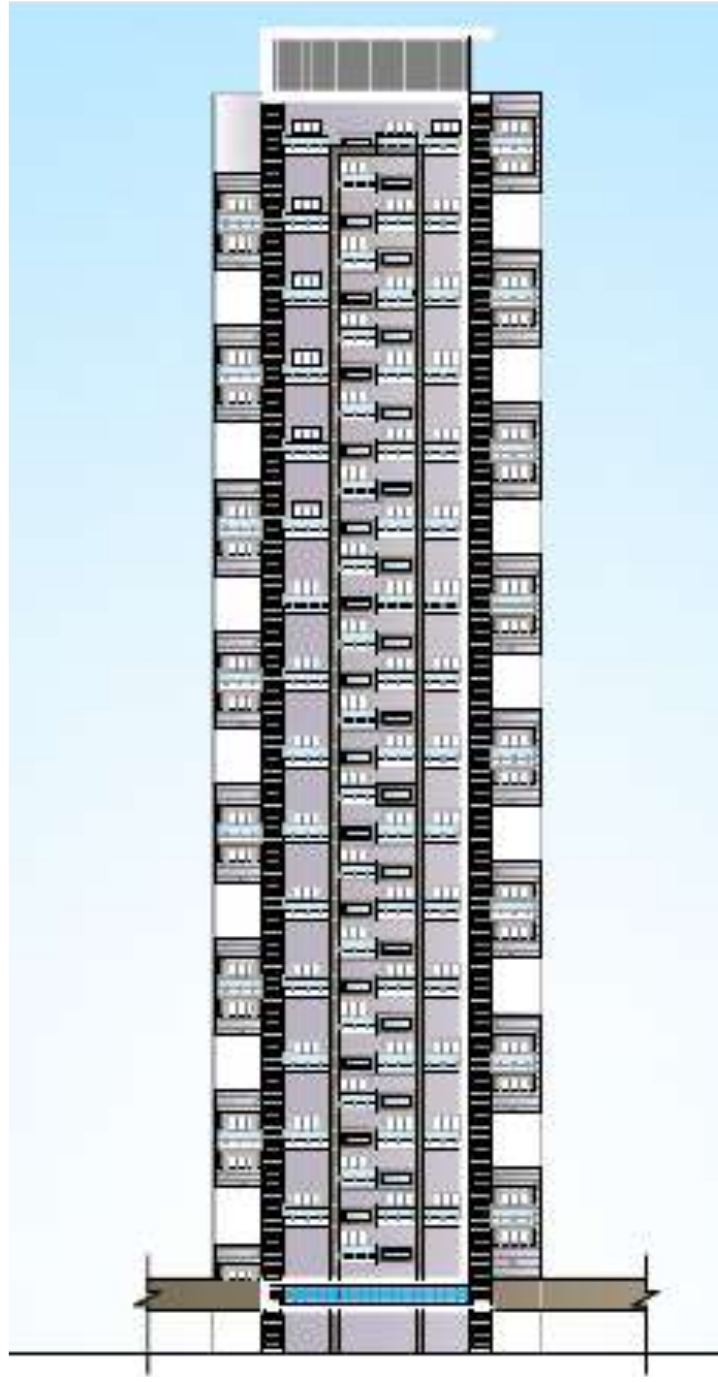
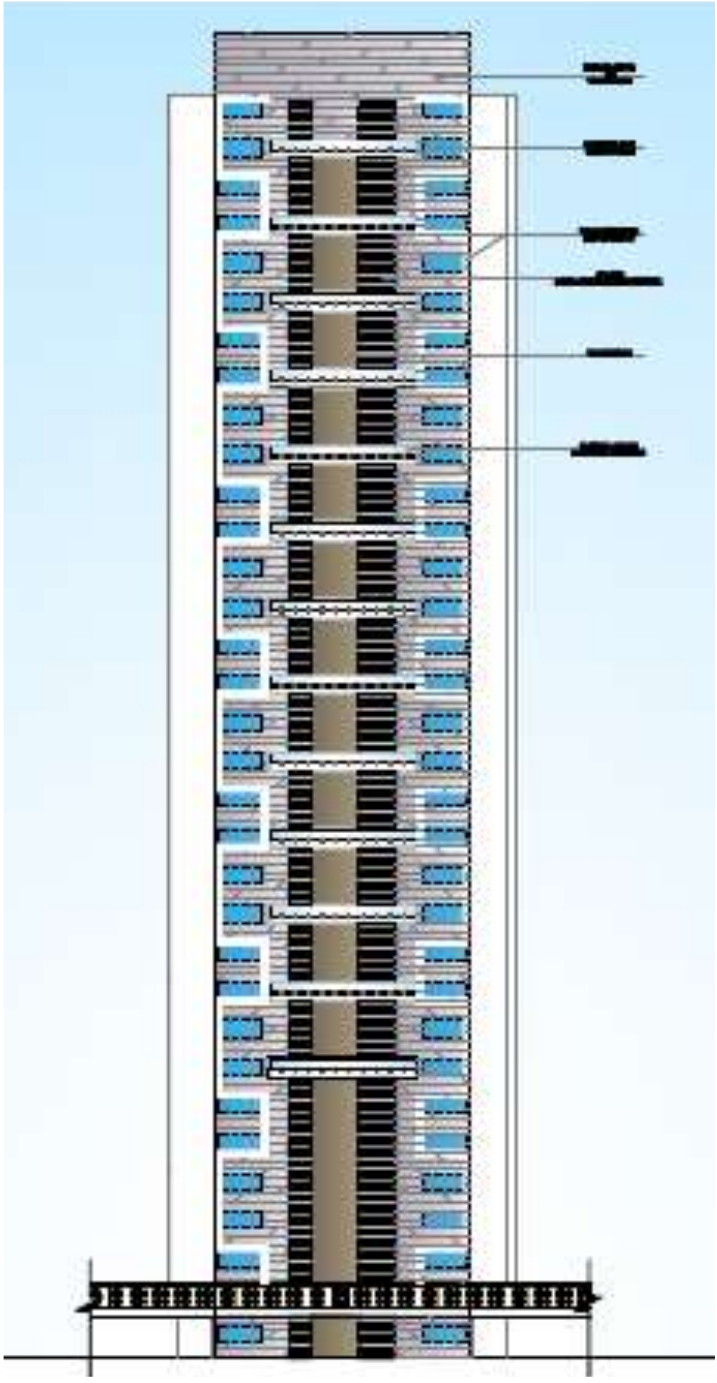
Concept : Design an weekend bungalow near the Wai dam. Taking the advantage of contours the bungalow was designed such that it get the view of nearby water body which was natural and soothing for enjoying the weekend away from the hustle of Pune city.



Every feet and inches of site was utilized by merging it into contours and creating landscape areas which formed sit outs, pool, small pockets of garden.



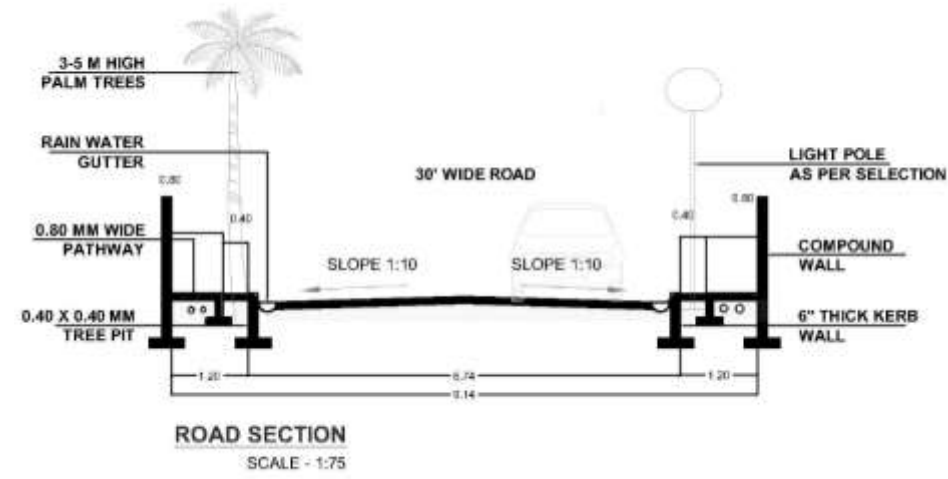
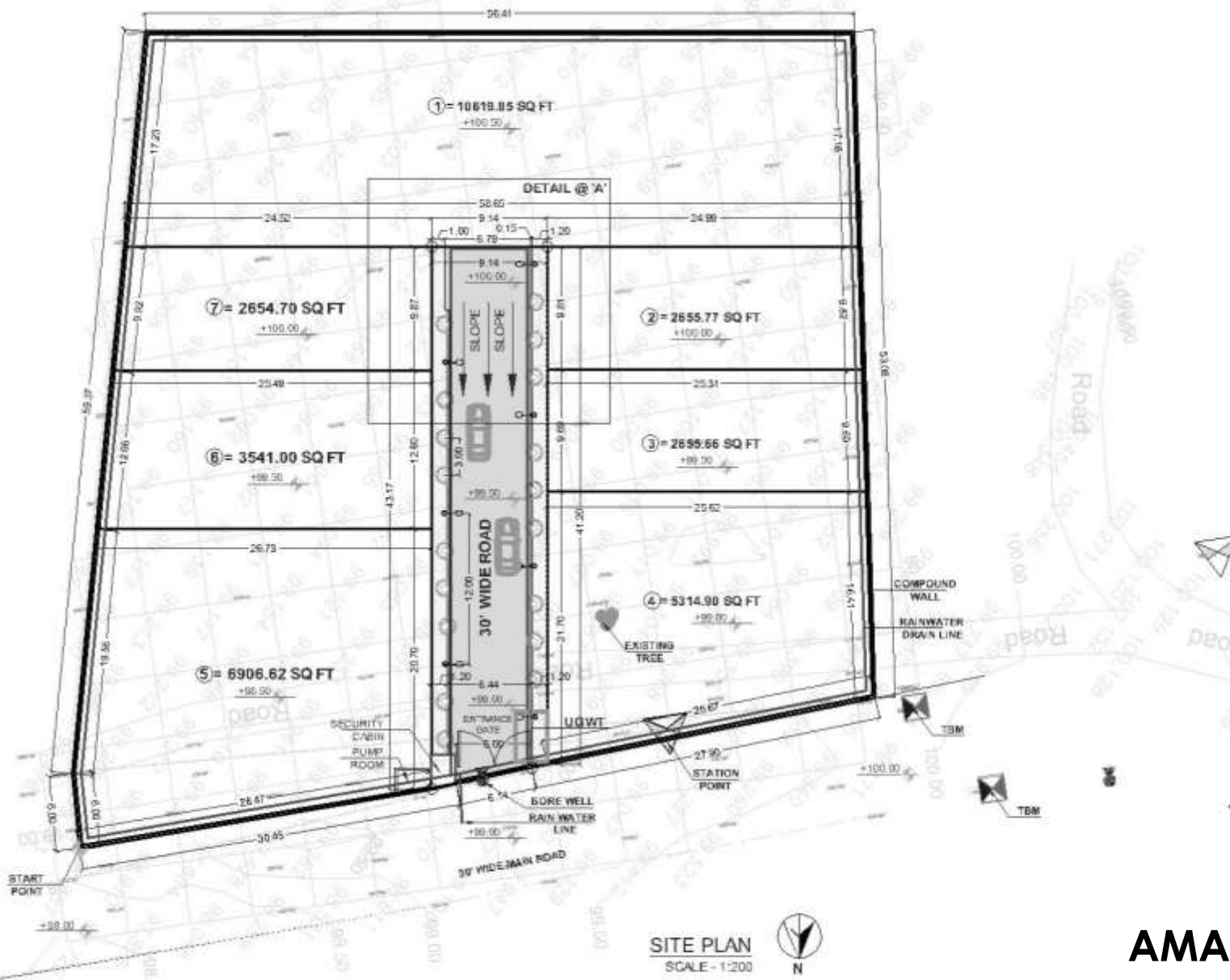
SITE PLAN



MULTI PURPOSE RESIDENTIAL BUILDING AT MUMBAI.

The building consisted of 31 storey creating a spacious block of three BHK on each floor. Providing parking at ground floor and planning the club house and garden area on first floor. The upper two floor were made for commercial use.





AMALGAMATION OF OPEN PLOT INTO BUNGALOW CLUSTER



PROPOSED BUNGALOW CLUSTER

Sectional sketches of the bungalows



FIRST FLOOR PLAN

SCALE - 1:100



NORTH SIDE ELEVATION



GROUND FLOOR PLAN

SCALE - 1:100

BUNGALOW DESIGNED IN PUNE FOR AN ARMY COLONEL.

The proper rectangular site was created into functional bungalow with three bedrooms, a huge living, kitchen and dining.

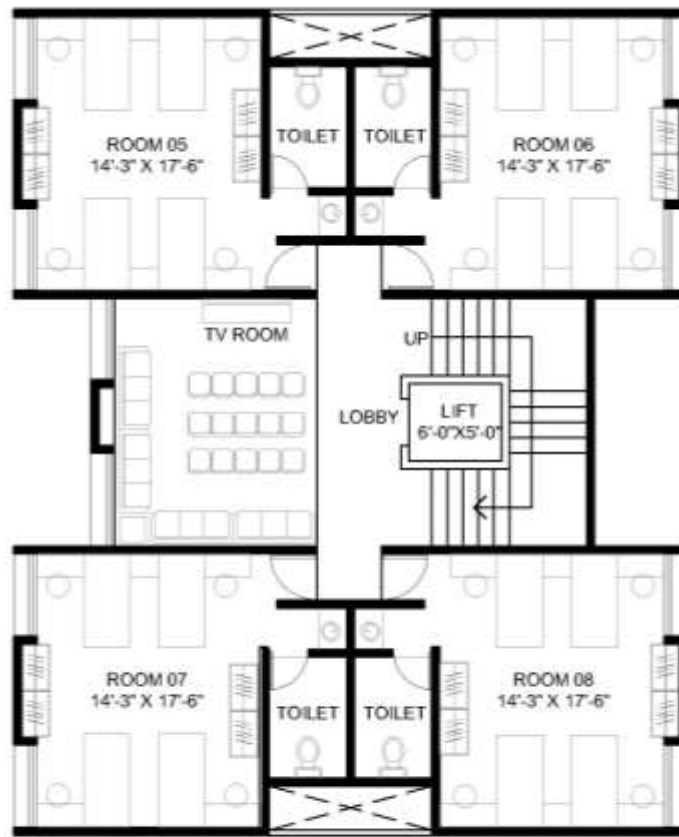
The building was planned according to the Vastu Shastra which were special demands of client. The massing of building was done such that it gave good aesthetic and elegance.





EAST SIDE ELEVATION

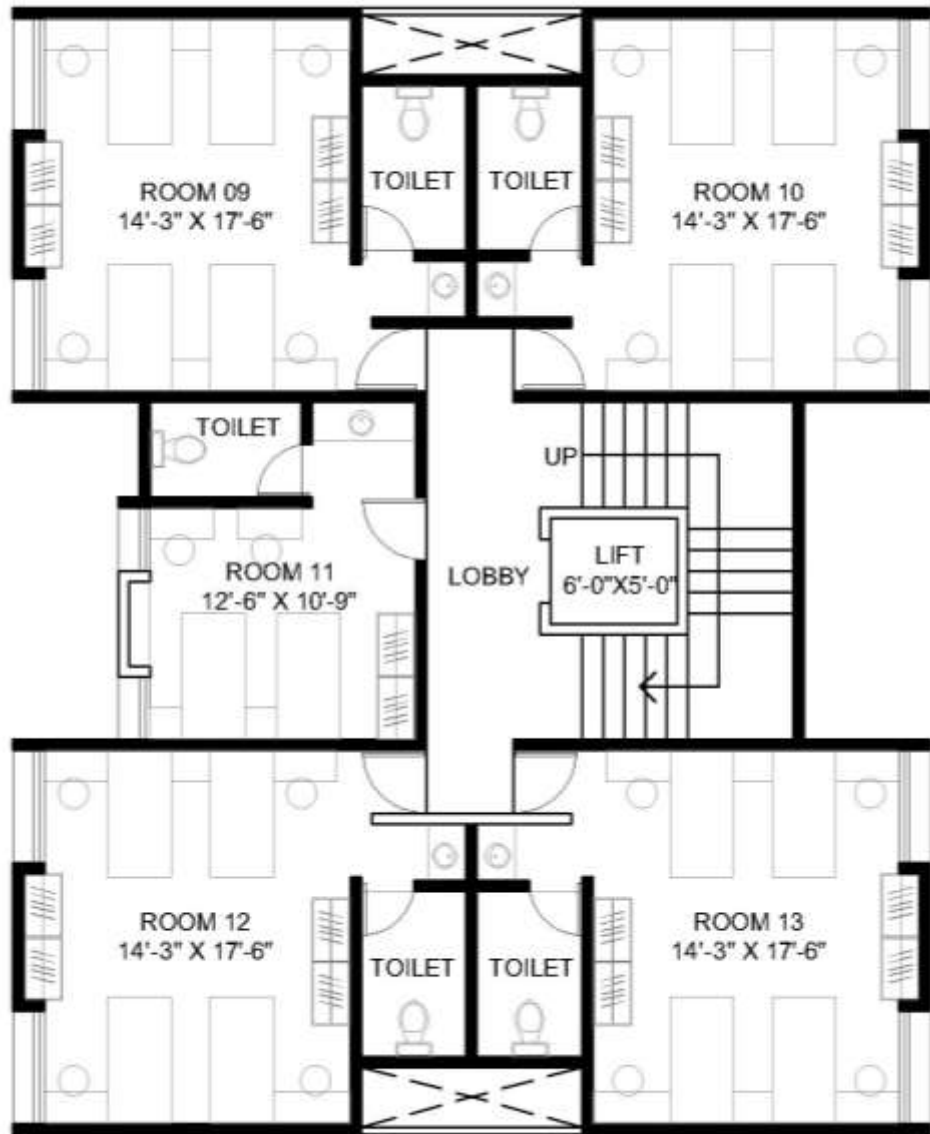




The pergolas on terrace were created to make semi public area which can be made as open dining area or a small recreation area.

GIRLS HOSTEL BUILDING FOR ENGG COLEGE BARAMATI.

The client expected to design the girls hostel for near by engineering college students where the girls can be accommodated. The main issue was privacy and safety of the girls, so the front elevation was completely blocked to get the privacy from front crowded road. The east and west side were utilized to provide natural light and ventilation into the rooms.



TYPICAL 1st, 3rd & 4th FLOOR PLAN.





**RESIDENTIAL COMPLEX
SCHEME AT MULSHI,
PUNE**





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