



**ARCHITECTURE  
FOLIO**

NAMRATA AGRAWAL  
ARCHITECT



## PERSONAL INFORMATION



**NAME – NAMRATA AGRAWAL**

**BIRTH – 18<sup>th</sup> APRIL, 1995**

**NATIONALITY – INDIAN**

**LANGUAGES –**

**ENGLISH | HINDI | MARATHI | MARWADI**



+91 7020049404



ar.namrataagrawal@gmail.com



Vyankatesh Heights, Gadkari Chowk,  
Nasik, Maharashtra

## EDUCATION



School – Seva Niketan Convent School, Maharashtra  
(2010)

Jr. College – S.S.G.M College, Maharashtra  
(2012)

Graduation – Vidyavardhan's Institute of Design  
(2018) Environment and Architecture, Nasik,  
Maharashtra



## TECHNICAL SKILLS

AutoCAD  
Sketch-Up  
Photoshop  
V-Ray  
3dsMAX  
MS Office  
MS PowerPoint



## SKILLS



## INTERESTS

## WORK EXPERIENCE



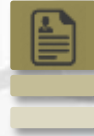
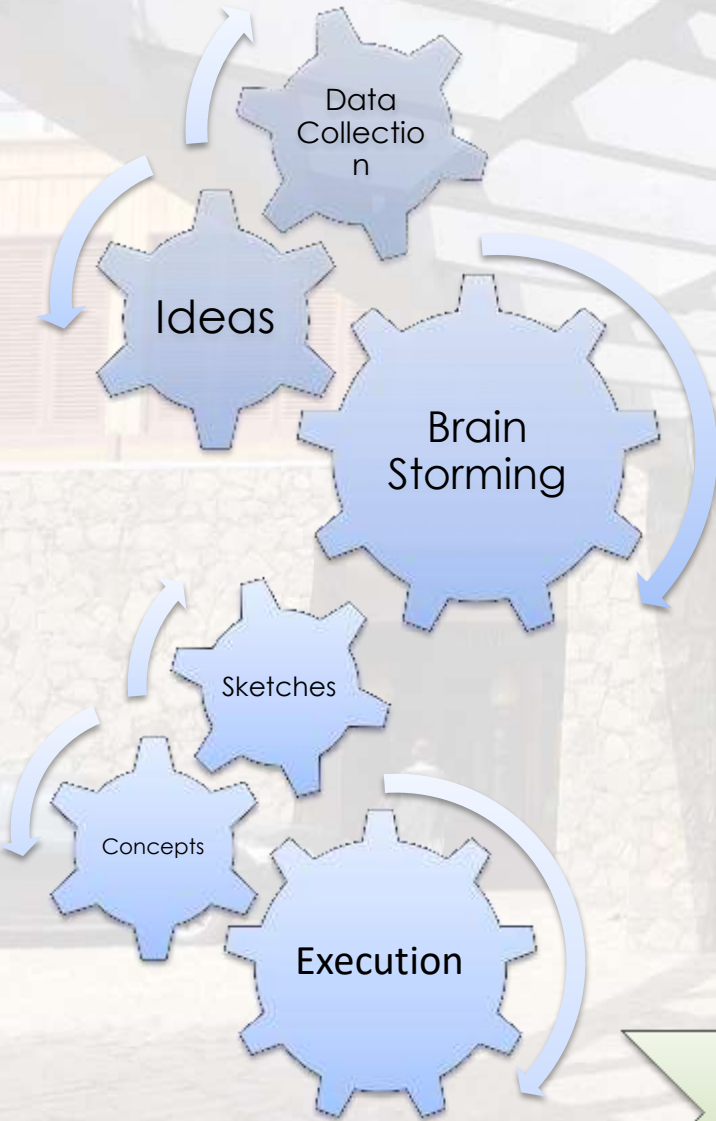
- Ray Design World, Vadodara.  
(1 Year 6 Months )
- Awarded as one of the best trainees of the respected firm.

Good at Leadership and Practical Skills.  
Hardworking and committed to meeting  
deadlines.

Good at organizations and  
communication.  
Persistent enough.

Sketching, Painting  
Making handcrafts

Dance  
Sports  
Listening music  
Driving Cars



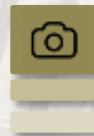
CV



About



Design



Photography

# PORTFOLIO

## Academics

Housing



Residential School



## Practical Contribution

Interior Design



Commercial Complex



Residential Design



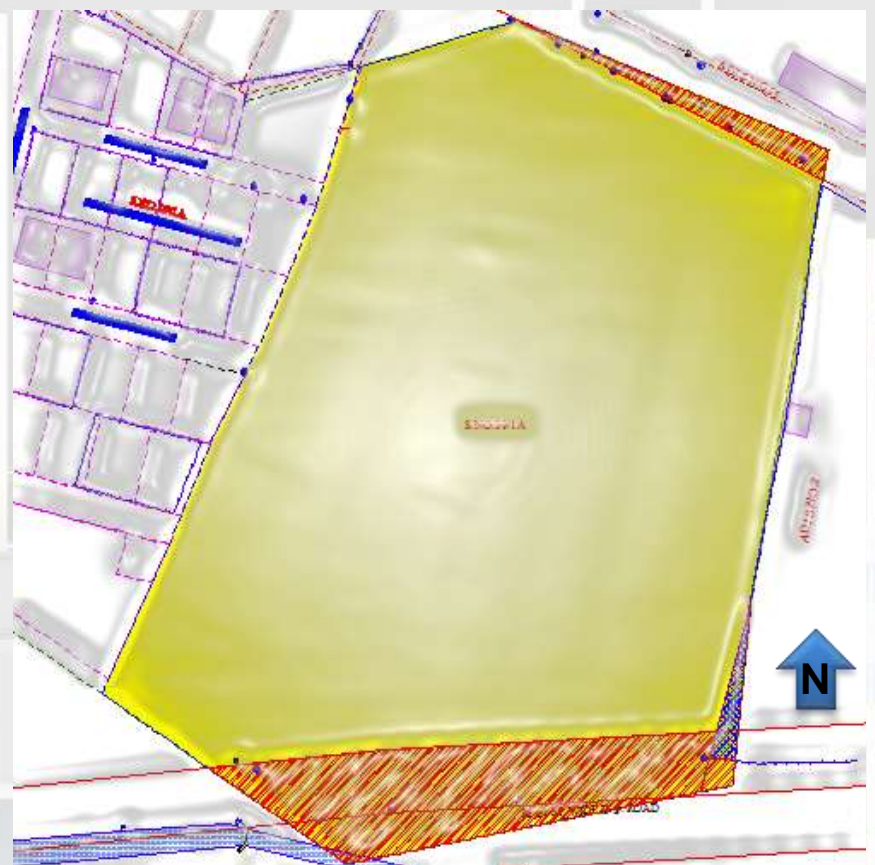
Hospital Design



Design Proposals



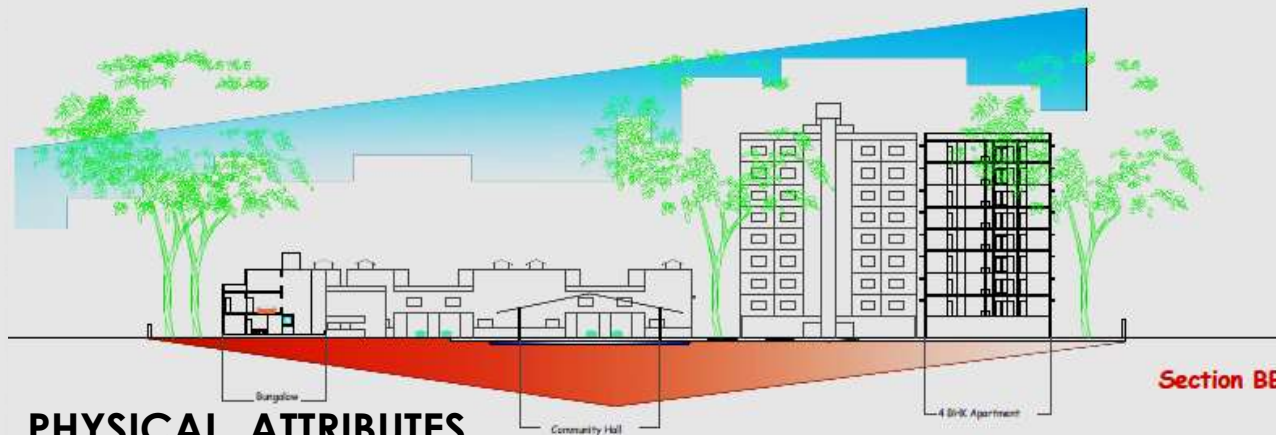
# SITE PLAN BEHIND DREAM CITY, TAPOVAN AREA, TAKLI ROAD, NASHIK.



## AREA STATEMENT IN SQ.M.

AREA OF LAND AS PER 7/12 EXTRACT	=25200.00 SQ.M.
AREA NOT IN POSSESSION	=01465.00 SQ.M.
AREA UNDER 30 M.D.P.RD.WDNG.	=03258.00 SQ.M.
AREA UNDER 12 M. ROAD	=00310.00 SQ.M.
REMAINING AREA OF LAND	=20167.00 SQ.M.





## PHYSICAL ATTRIBUTES

- Black soil.
- Flat land.
- High-rise structure on west side slum area on east side 30 m wide road on south side.
- 12m wide road on north side.
- No water body on site.
- No existing structures.
- No existing trees

## DESIGN APPROACH

- The community housing has 4bhk – 1bhk layout plans with twin bungalows, row-house plans and a community hall at center.
- Cluster Formation with introvert planning.
- Pergolas at entrance as well as in interiors of bungalows.

# Reference Images

2BHK

3BHK

4BHK

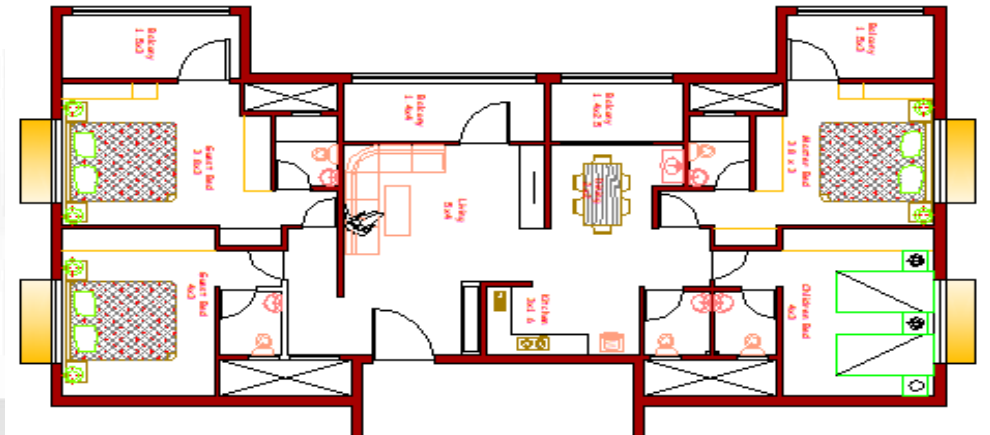
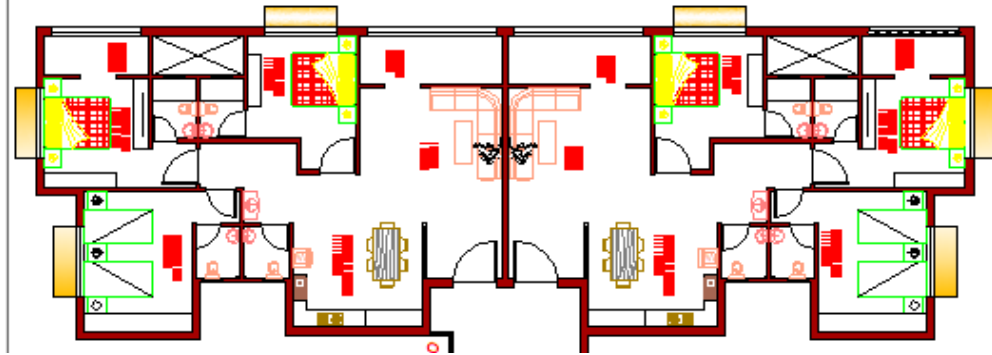


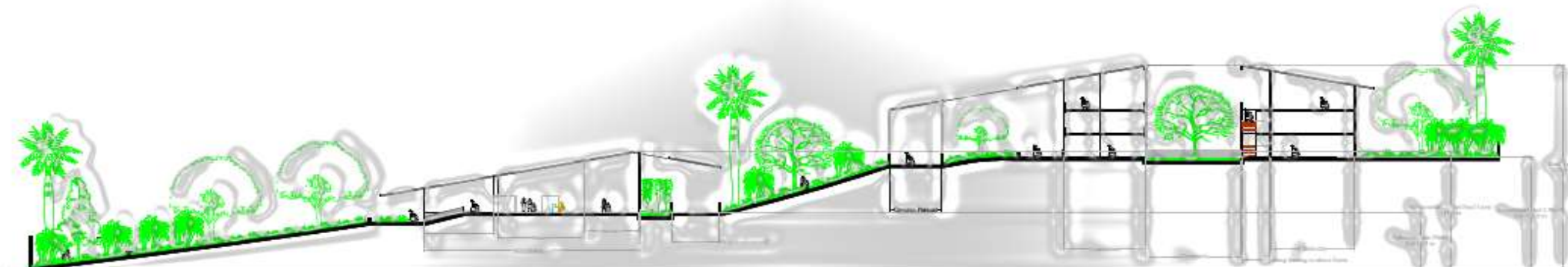
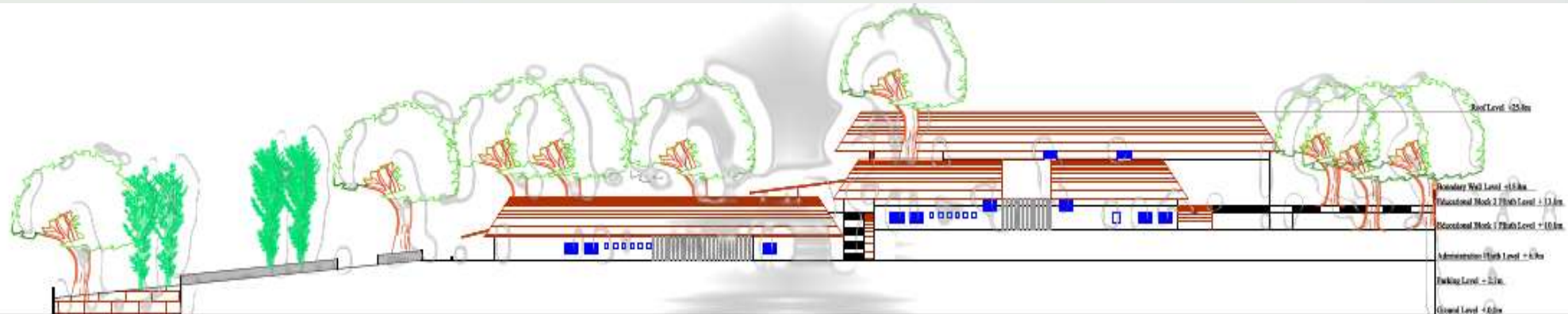
# LAYOUTS

2BHK

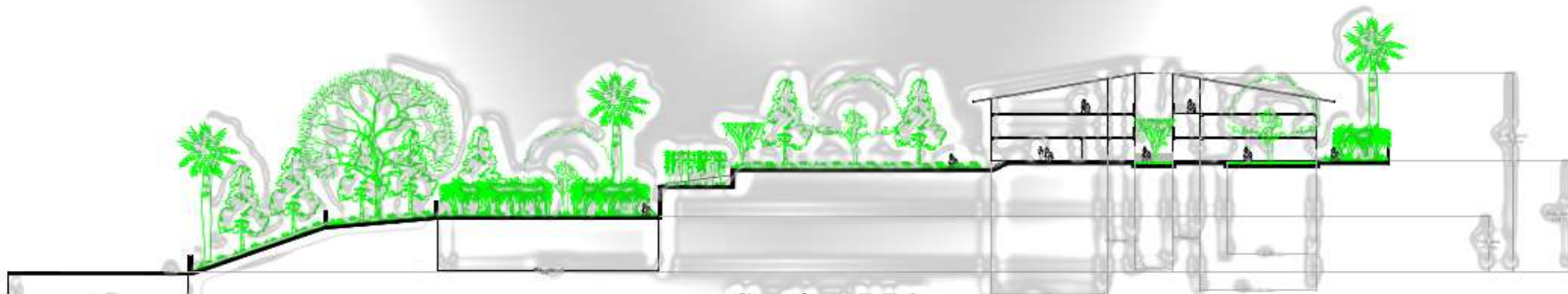
3BHK

4BHK





Section AA'



Section BB'



**Sustainable Architecture** - Green architecture strives to minimize the number of resources consumed in the building's construction, use and operation, as well as curtailing the harm done to the environment through the emission, pollution and waste of its components. To design, construct, operate and maintain buildings energy, water and new materials are utilized as well as amounts of waste causing negative effects to health and environment is generated. In order to limit these effects and design environmentally sound and resource efficient buildings; "green building systems" must be introduced, clarified, understood and practiced. The ability to be maintained at a certain rate or level as well as avoidance of the depletion of natural resources in order to maintain an ecological balance. Sustainability can be defined as the continued ability of a society, an ecosystem, or any such interactive system to function without exhausting key resources and without adversely affecting the environment. Sustainable architecture basically, is architecture that minimizes the ecological impact of a building. This can be achieved by using biodegradable materials, recycling, and examining the impact the building will have on the local community. It is important to consider the "Three R's" of sustainability: Reduce, Recycle, Reuse.





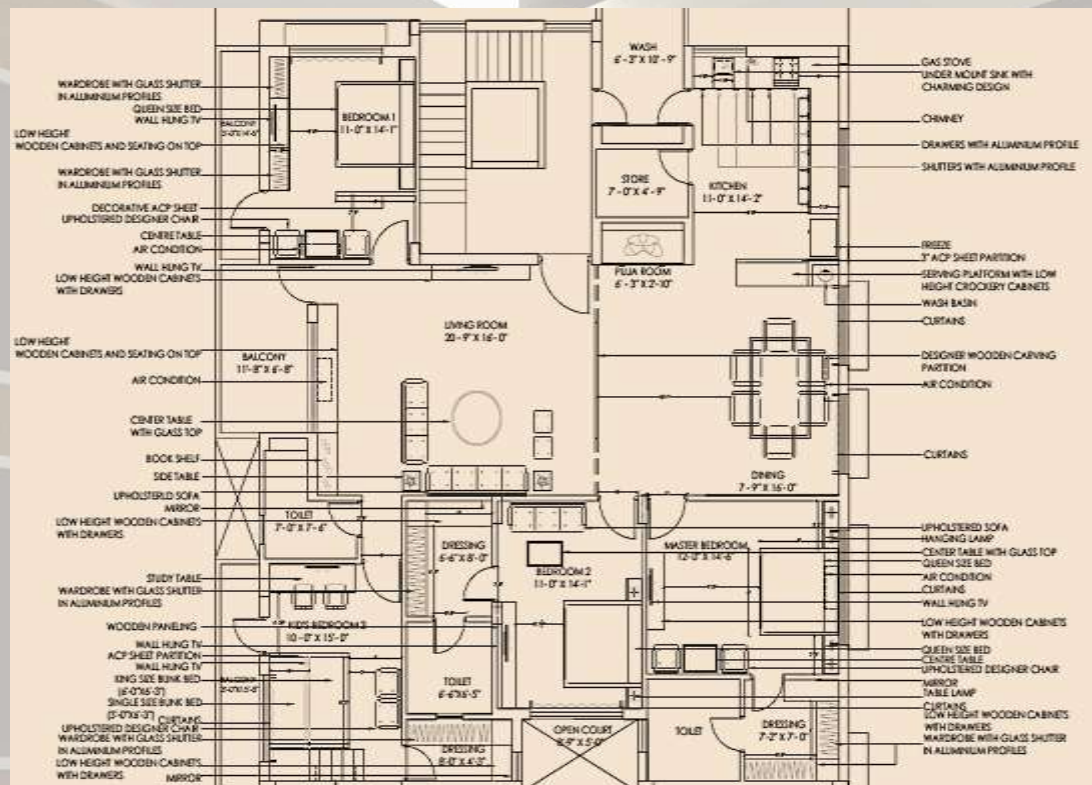
## SCOPE AND LIMITATIONS

- To study the existing patterns and activities of gated communities in rural context.
- To study various sustainable technologies in the various aspects like passive design, building material and technologies, , rain water harvesting, waste water recycle etc.
- To understand the need, requirement and qualities of a gated community.
- To achieve aspects of sustainable design such as passive design, building material and technologies, , rain water harvesting, waste water recycle etc.
- To make students interact with each other.
- To create a homely environment.
- To use all the locally available building materials which will reduce the cost aspect.

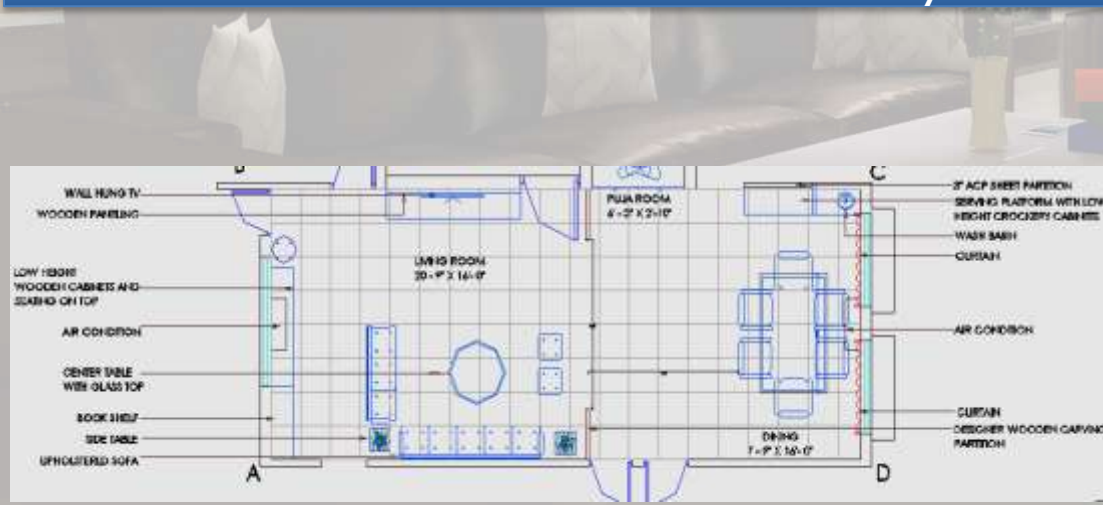


**CONCEPT** – When it comes to design solution, designing a Rural Residential School will allow experimenting various aspects of Sustainability in relation to site. In order for students to experience and understand the importance and need of sustainable architecture, it was necessary to educate them and make them live that particular environment. A residential school satisfies this condition. The aim was to make the youths to understand how sustainable architecture can help to satisfy the needs of future generation which are depleting day by day. This could not be if the building was catered in commercial aspect.

A Rural Residential School is not just restricted to a single activity, but it also has various other activities attached to it. Movement of people from one place to another will let them experience the true essence of sustainable architecture. Hence the School will have various zones and will be separated from each zone through landscape. The site will be divided in three zones which are educational blocks, residential blocks and refreshment space.

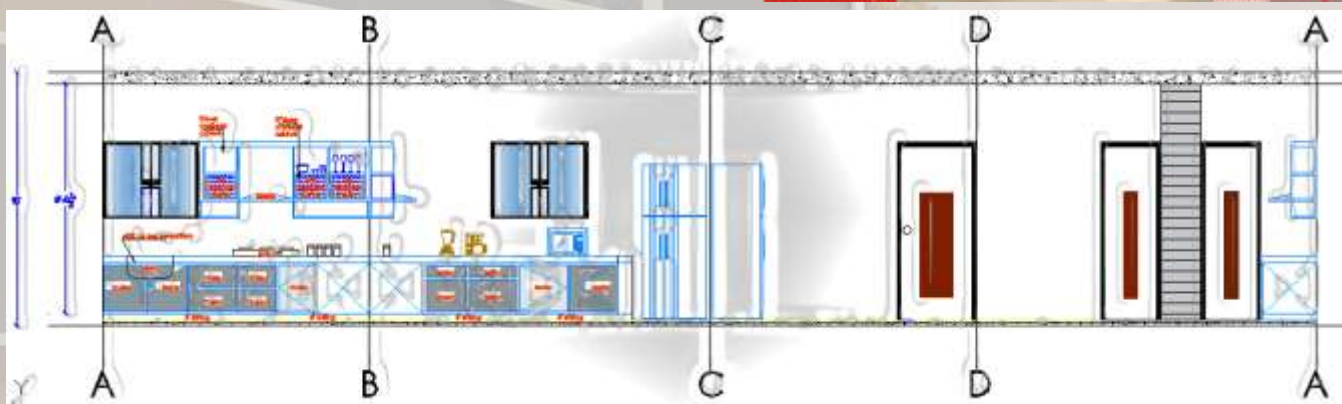
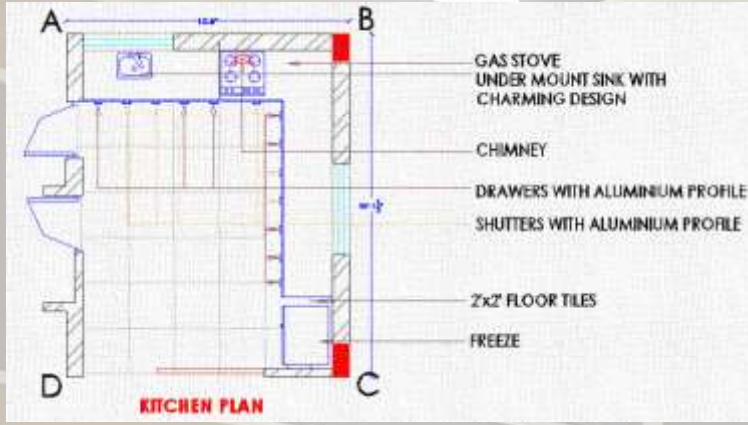


Floor Layout Plans and Views

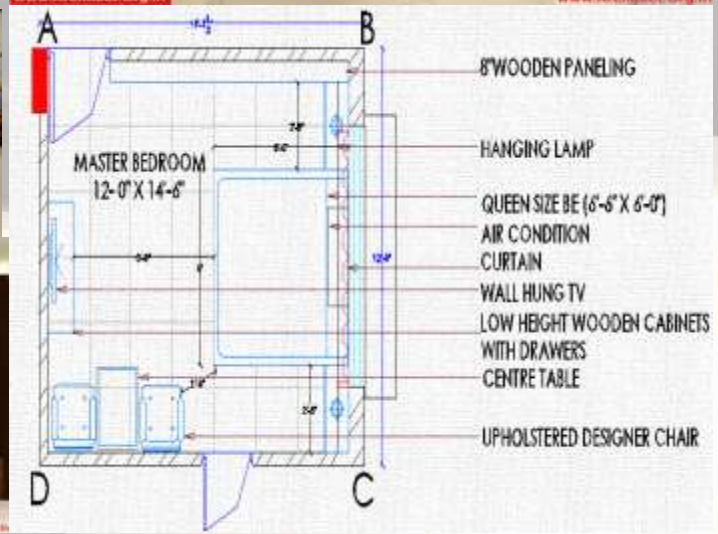
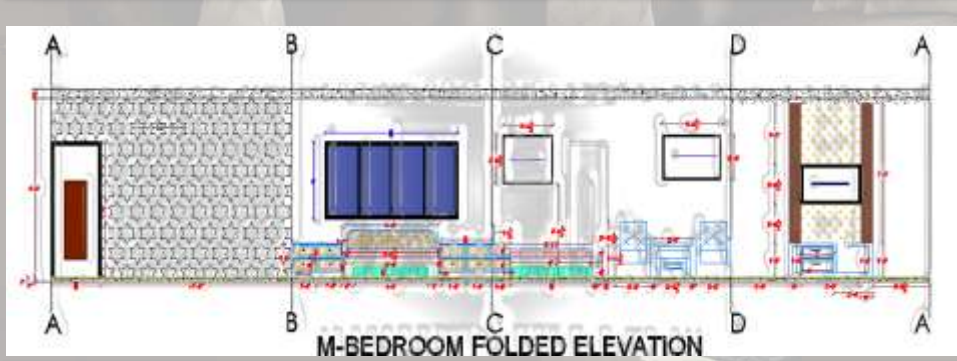


Living and Dining Room Layout

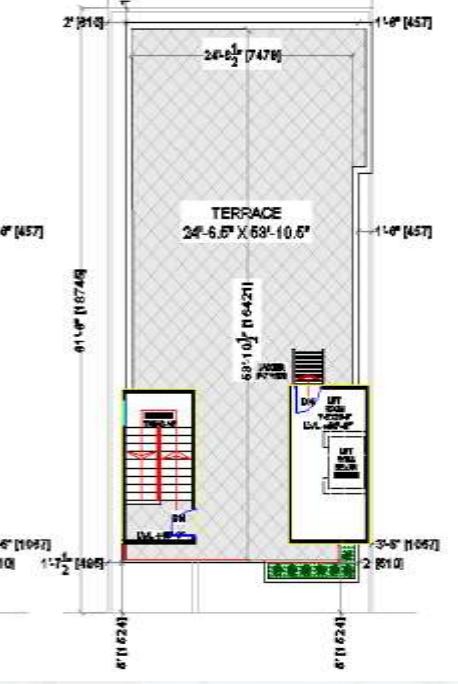
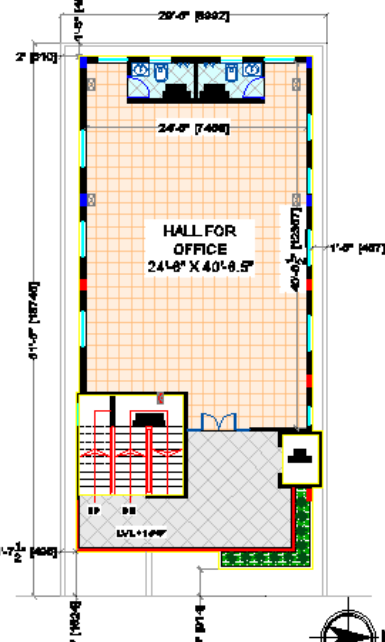
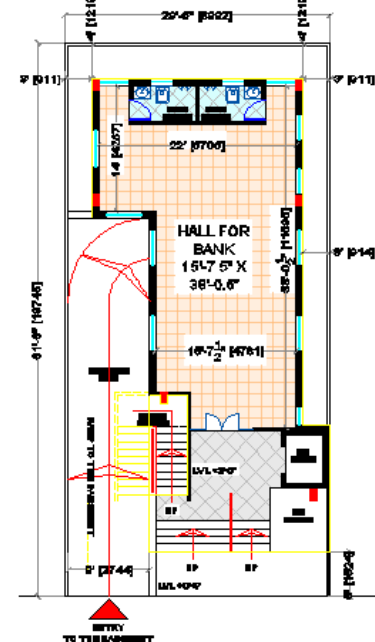
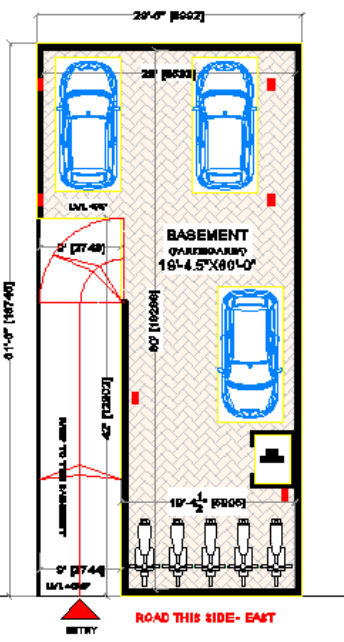
Sectional Elevations



**Kitchen Layout, Sectional Elevation and Views**



**Master Bedroom Layout, Sectional Elevation and Views**



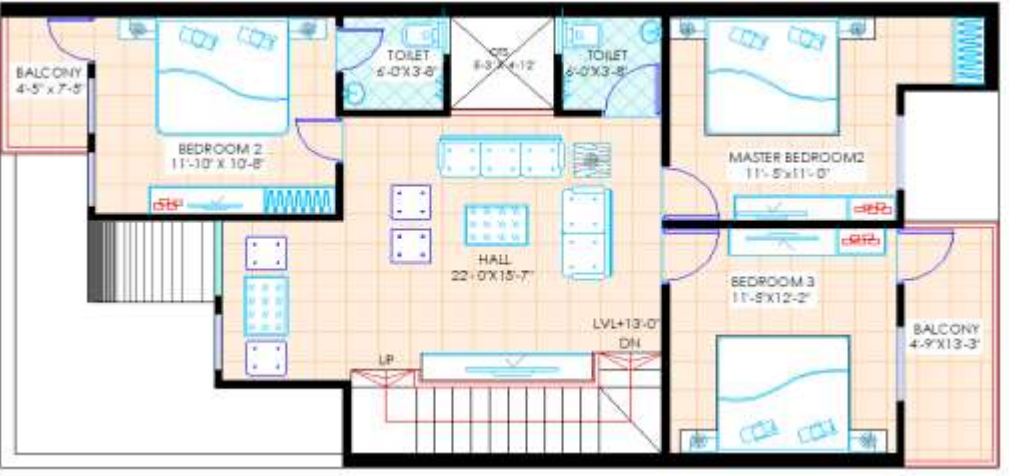
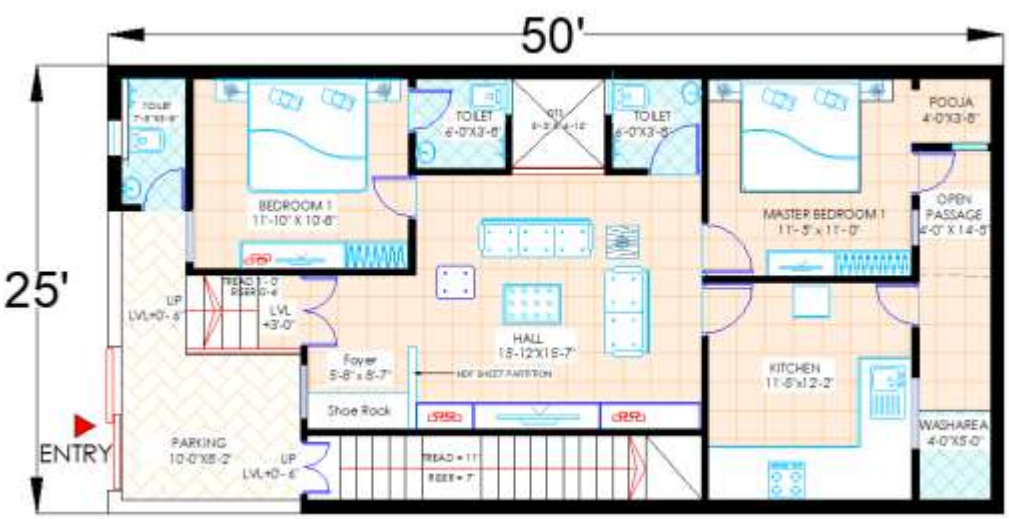
## Floor Layout Plans and Views



### PROJECT DESCRIPTION

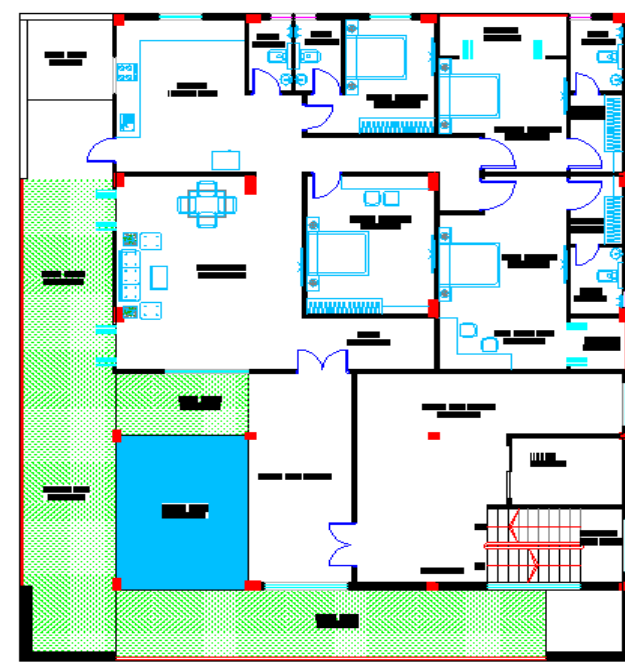
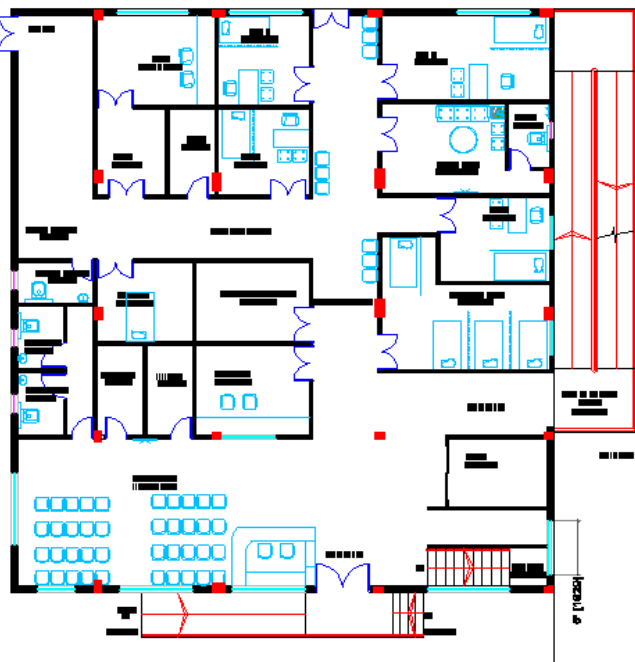
- A Commercial cum residential building planned on a plot of size 29'-6" X 61'-6", abutting to a main road in East Direction. It is a Basement + G+ 3 structure which has parking facility in Basement, spaces for commercial activities on Ground and 1st floor & residences (3BHK's) on 2nd & 3rd floor.
- This Building is actually designed for letting the Ground & 1st Floor at rent or lease for a bank and office respectively.
- The Basement floor is 6'6" deep below the ground level, which has capacity of parking at-least 3 Cars & two wheeler vehicles. For accommodating more vehicles, this floor does not have access by staircase, but is connected to the upper floors Through ramps & lift.
- Ground floor actually has a space like Hall with 2 attached toilets, this floor is specially designed by considering it for a Bank (Branch office) hence it also has a small ATM connected to a Veranda Providing access to this same hall & a lift. It also has connection to upper floors through steps.
- First floor has a bigger hall than ground floor for accommodating an office with connected semi open space, which acts as a transition space for the office space and on other floors as well, It has staircase & lift for vertical circulation, from this floor a Clock wise staircase starts according to Vastu Shastra.
- 2nd & 3rd Floor have a typical floor plan with 3BHK units one on each of them. In the semi open space in front it has a sit-out. This building is totally designed according to Vastu Shastra.
- The 3BHK unit has a main entrance in East with an Entrance foyer, which Provides access to a Drawing cum Dinning room, which has a small Pooja room in North-East corner of the house. Dinning room is directly connected to a kitchen area & this space acts as a transition space for accessing a kids Bedroom, a master Bedroom with attached toilet cum bathroom, a dressing area & a Balcony, A guest bed room with attached storage area & Balcony & a common toilet for this 3BHK unit.
- As this building's height is more than 15 mt, hence this building is provided with lift. And as this Building is a commercial cum residential building, Its floor to floor height is 11'-8", which is actually convenient height fro providing false ceiling & ducting in the interiors.
- The terrace floor has a staircase cabin & lift machine room in front.
- Its Exterior look is also designed to maintain the verticality of the Building and maintain the composition of each floor aesthetically by our Designer.
- This proves to be a perfect example for a building, which maintains equilibrium between both the building (typologies) use in one, which are commercial & residential spaces respectively.





Floor Layout Plans and Views





## Floor Layout Plans and View

VIEW 01



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- A Multi specialty Hospital designed on a rectangular plot 79'-6" X 85' abutting to a main road in North direction. It is a G+3 Structure, and the plot has two separate entries, one main gate & another small entrance for pedestrians. The hospital has an access through both, steps and ramp with otta which opens into a huge waiting & reception area which acts as a lobby for staircase, a stretcher lift & ramps for vertical Circulation.
- The waiting area provides access to common toilet area, separate for males & females, an injection room, & a store. A Passage connected to the entrance lobby provides access to a pharmacy, physiotherapy room, 4 added casualty room, 4 OPD's a Relax room with attached toilet, a dressing, a lobby & X-Ray lab, a minor O.T., a common toilet, water cooler area & a fire exit, here all the passages have waiting areas on its sides.
- On first floor the common lobby for Ramp, Stairs & lift is connected to a 7' wide passage, which provides access to 2 special rooms with attached toilets, a pediatric room for 2 patients with attached toilet & store room, 2 wards separate for males & females & the passage connected with fire exit area has a common toilet. The central lobby has access to a twin sharing room with attached toilet, a nursing room with attached toilet & a nurse station, a Balcony, in the front side is connected to 2 more special rooms with attached toilets.
- Second Floor also has the same kind of lobby, for circulation areas with same kind of passages as on 1st floor. This floor mainly has operating areas & recovery spaces. The passages provide access to an I.C.U. for adults with 3 bed & attached toilet, a linen store, toilet, & two changing rooms, a storage area, CSSD, a Scrub Station, major & minor O.T.'s & an Anesthetist Room with attached toilet & a water cooler area, & from the lobby it has access to a waiting area a balcony, a scrub station which is connected with NICU & PICU with attached toilets & a feeding room.
- On Third floor the lobby area is kept intact & this floor has Doctor's residence with amenity spaces like lawns, sitting area & a water body. The residence is a spacious 4 Bhk unit with 8'-11" wide entrance passage which leads to a lobby, then a huge living cum dining room which is connected with a passage that provides access to spacious kitchen with wash area, a common toilet, two guest Bedrooms, one with attached toilet, a Master bed room with attached Dressing Area, Toilet bathroom & a Big balcony at the rear end & a kids bed room with kid's study Area & attached dressing, toilet & a Balcony.
- Its terrace level plan shows a Stair cabin with stairs & lift, an open terrace area & a Paramedical roof over the water body on third floor.









