



THESIS REPORT

INTERIOR OF NIRMALA HOSPITAL AYODHYA (U.P.)

**A Thesis Submitted
in Partial Fulfillment of the
Requirements for
the Degree of**

BACHELOR OF INTERIOR DESIGN

by

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**Under the Supervision of
PROF. SAURABH SAXENA**

**to the
Nirmala Hospital Ayodhya (U.P.)**



**BABU BANARASI DAS UNIVERSITY
LUCKNOW**

JUNE, 2025

**INTERIOR OF NIRMALA HOSPITAL,
AYODHYA (U.P.)**



CERTIFICATE

I hereby recommend that the thesis, entitled “**INTERIOR OF NIRIMALA
HOSPITAL,AYODHYA (UP.)**”, prepared by
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Roll no. **1210107016** under my supervision, is the bonafide work of the student and
can be accepted as a partial fulfilment for the award of Bachelors Degree in
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Recommendation:

Accepted

Not Accepted



BABU BANARASI DAS UNIVERSITY, LUCKNOW

CERTIFICATE OF THESIS SUBMISSION FOR EVALUATION

1. Roll No. 1210107016
2. Name SANSKRITI BANIYA
3. Thesis title: INTERIOR OF NIRIMALA HOSPITAL ,AYODHYA (U.P.)
4. Degree for which the thesis is submitted : BACHOLERS OF INTERIOR DESIGN
5. Faculty of the University to which the thesis is submitted :
6. Thesis Preparation Guide was referred to for preparing the thesis. ☐ YES ☐ NO
7. Specifications regarding thesis format have been closely followed. ☐ YES ☐ NO
8. The contents of the thesis have been organized based on guidelines. ☐ YES ☐ NO
9. The thesis has been prepared without resorting to plagiarism. ☐ YES ☐ NO
10. All sources used have been cited appropriately. ☐ YES ☐ NO
11. The thesis has not been submitted elsewhere for a degree. ☐ YES ☐ NO
12. Submitted 3 spiral bound copies plus one CD. ☐ YES ☐ NO



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“In the name of god Who is most beneficent and merciful.”

Time demands that I express my gratitude to those who have been a part of my stay in **B.B.D.U**. It’s been great, all these years, but life moves on...and so do we...

I express my deepest gratitude to my thesis guide

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I am grateful to our thesis Coordinator **AR. VARSHA VERMA**, for providing their useful comments at the various stage submissions.

Thank You’ was not the exact phrase on my mind when I wrote this, it was something much deeper, but I am unable to find words for it.

All of my teachers, your support, encouragement and guidance have given us the strength to embark on this rigorous journey.

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Thesis would not have been possible. All the experiences that I shall relate in the following pages would not have been possible without them.

My Family, my mother **MRS. NEELAM BANIYA**, my father **MR.BISHWANATH BANIYA** and my brother **AASHUTOSH BANIYA** saying thanks is nothing, just accept this as a tribute to what you have imbibed & inspired in me.

It would not be possible without my senior especially

AR. APARNA SHUKLA AND ID. ANJALI AGARWAL.

Though words hardly express the true emotions, still I would like to thank all my near and dear ones who helped and guided me.



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SYNOPSIS

INTRODUCTION

A hospital is a healthcare facility that provides medical care, diagnosis, and treatment for patients. Hospitals also offer specialized accommodation for patients. Hospitals have a staff of physicians, nurses, and other health professionals. Hospitals are a vital part of the healthcare system, providing medical care to people who are sick or injured. They are a source of critical resources and knowledge, and they play a key role in population health.

WHAT IS DESIGN ?

&

WHO ARE DESIGNERS?

A design is a plan or specification for the construction of an object or system or for the implementation of an activity or process or the result of that plan or specification in the form of a prototype, product, or process. The verb to design expresses the process of developing a design.

The design usually has to satisfy certain goals and constraints; may take into account aesthetic, functional, economic, or socio-political considerations; and is expected to interact with a certain environment. Typical examples of designs includes architectural and engineering drawings, circuit diagrams, sewing patterns such as business process models.

People who produce designs are called designers. The term 'designer' generally refers to someone who works professionally in one of the various design areas.

ABOUT THE PROJECT

Hospitals are shifting towards patient-centric design, creating healing spaces that promote well-being and reduce stress. Hospitals are designed to be healing spaces that promote well-being and reduce stress.

HISTORY AND BACKGROUND

Hospitals in India have been around since ancient times. The first modern hospital in India was established in 1664 by the British East India Company.

Ancient hospitals

- King Ashoka built a chain of hospitals in Hindustan around 230 BCE.
- In the 6th century BCE, there were hospitals that cared for the poor and handicapped
- Arabian and European travelers noted the flourishing of medicine in India around AD 600.

Modern hospitals

The Rajiv Gandhi Government General Hospital in Chennai was Founded in 1664 by The British East India Company. In the 19th century, organized medical training was started. In 1961, the All India Institute of Medical Sciences (AIIMS) pioneered the first masters' degree program in hospital administration in India.

OBJECTIVE

The primary objective of a hospital is to provide medical care and treatment to individuals who are ill, injured, or in need of specialized health services. This is achieved through a combination of medical diagnosis, treatment, surgical procedures, emergency care, and rehabilitation services.



Key objectives of a hospital include:

1. Providing patient care: Offering medical, surgical, and nursing services to treat patients and manage diseases or injuries.

1. Health promotion and disease prevention: Educating the public and patients about healthy lifestyles, disease prevention, and early diagnosis.

2. Emergency care: Offering immediate medical intervention in case of emergencies, such as accidents or acute medical conditions.

3. Medical research and education: Contributing to the advancement of medical knowledge through research and training future healthcare professionals.

5. Rehabilitation: Assisting in the recovery of patients who have undergone surgery, suffered from accidents, or have chronic conditions that require long-term care.

WHAT IS THE NEED & SCOPE?

Hospitals are crucial for the health and well-being of individuals and communities. The need for hospitals arises from several factors:

1. Medical Care and Treatment: People require hospitals to provide emergency and specialized medical care, surgeries, diagnostic testing, and long-term treatments for various health conditions.

2. Access to Expertise: Hospitals employ highly trained medical professionals, including doctors, nurses, and specialists, who can diagnose, treat, and manage complex health issues.

3. Emergency Services: Hospitals provide life-saving care in emergency situations, such as accidents, natural disasters, or sudden illnesses. Emergency rooms are vital for quick, critical interventions.

1. Preventive and Primary Health Care: Hospitals often serve as centers for health education, immunization programs, preventive screenings, and health promotion, which help in reducing disease prevalence in communities.

2. Rehabilitation Services: Post-surgery or post-illness recovery often requires specialized services like physical therapy, mental health support, or chronic disease management, which hospitals provide.

SCOPE OF HOSPITAL

The scope of hospitals is broad and covers various services, technologies, and specialized areas of healthcare. The key areas of hospital scope include:

1. Acute Care: Hospitals provide immediate care for short-term illnesses, injuries, or surgeries that require hospitalization. This includes emergency treatment and intensive care for critical conditions.

2. Specialized Care: Many hospitals offer specialized departments or units such as:

- 1. Cardiology:** For heart-related issues.
- 2. Orthopedics:** For bone and joint-related treatments.

- 1. **Neurology**- For neurological disorders.
- 2. **Oncology**:- For cancer treatment.
- 3. **Pediatrics**: -For children's healthcare.

3.Surgical Services: Hospitals perform a wide range of surgical procedures, from routine surgeries to complex operations, such as organ transplants or heart bypass surgery.

4.Diagnostic Services: Hospitals offer diagnostic testing, such as blood tests, X-rays, MRI scans, and ultrasounds, which are critical for accurate diagnosis and treatment planning.

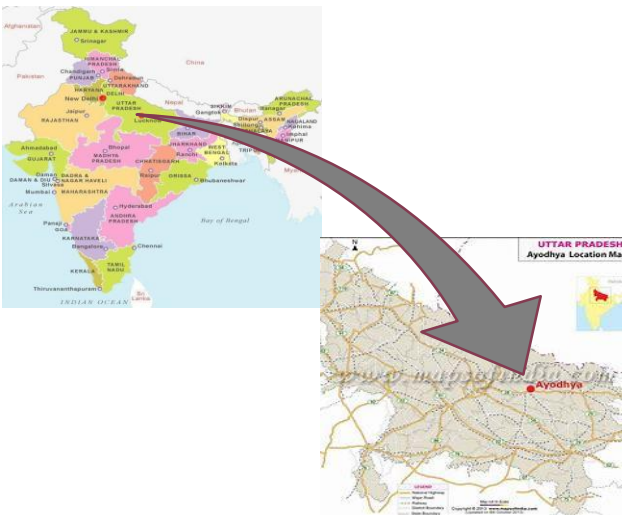
5.Outpatient Services: Many hospitals have outpatient departments for consultations, treatments, and follow-up care that do not require overnight hospitalization.

6.Rehabilitation and Palliative Care: Hospitals provide services to patients recovering from surgery or illness, as well as palliative care for those with terminal illnesses to improve their quality of life.

METHODOLOGY

- SITE ANALYSIS
 - SITE & SURROUNDINGS
 - SITE CLIMATE
 - CASE STUDY
- SITE ANALYSIS
 - SITE & SURROUNDINGS
 - SITE CLIMATE
 - CASE STUDY
- CONCEPT SHEET
 - DESIGN
 - ELECTIVE
 - VIEW

SITE DETAIL (AREA AND LOCATION OF THE PROJECT)



PROPOSED SITE
FOR INTERIOR OF
HOSPITAL IN
AYODHYA

AREAS I CAN WORK ON AS PER “INTERIOR ASPECTS”

- RECEPTION COUNTER AREA
- PHARMACY AREA
- PRIVATE ROOM
- DOCTOR’S LOUNGE.

Not only I will work on various spaces of interior but also will Implement the studies of lighting, color schemes , Various elements and principal of designs.



CHAPTER 2 : THE RESEARCH SITE AND CLIMATIC DATA

- INTRODUCTION
- ABOUT CITY
- LOCATION OF SITE
- SITE ACCESSIBILITY
- SITE IMAGES
- CLIMATE DATA WITH SUN MOVEMENT





INTRODUCTION

Ayodhya is a city situated on the banks of the Sarayu river in the Indian state of Uttar Pradesh. It is the administrative headquarters of the Ayodhya district as well as the Ayodhya division of Uttar Pradesh, India. Ayodhya is special primarily because it is believed to be the birthplace of Lord Rama, a central figure in the Hindu epic Ramayana. This makes it a significant pilgrimage site and a focal point for Hindu devotees worldwide. Beyond its religious significance, Ayodhya also boasts a rich history as the capital of the ancient Kosala Kingdom and a thriving center of trade and culture.



Ram Mandir



Hanuman Garhi



Ram ki Paidi Ghat



Vijayraghav Mandir

TRANSPORT AND CONNECTIVITY

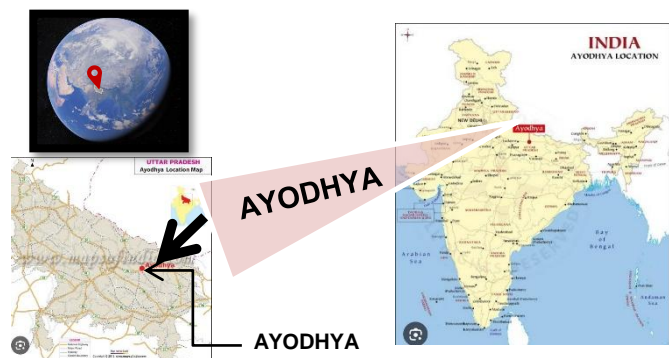
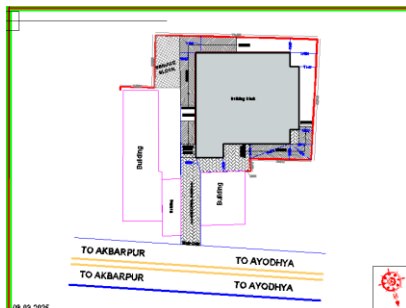
Ayodhya is well-connected by air, rail, and road. The Maharishi Valmiki International Airport, Ayodhya offers air connections, and Ayodhya Junction and Ayodhya Cantt are major railway stations. Road connectivity includes frequent bus services from major cities like Lucknow, Delhi, and Gorakhpur. Maharishi Valmiki International Airport, Ayodhya is located approximately 10 km from Ayodhya Dham. Ayodhya Cantt and Ayodhya are major railway stations, well-connected to major cities and towns. The city is on the broad gauge Northern Railway line and is part of the Pandit Din Dayal Upadhyay Junction and Lucknow main route. Uttar Pradesh Transport Corporation buses operate 24/7, connecting Ayodhya to major cities and towns. The city is about 130 km from Lucknow, 200 km from Varanasi, 160 km from Prayagraj, 140 km from Gorakhpur, and 636 km from Delhi. Buses are available frequently from Lucknow, Delhi, and Gorakhpur, and also from Varanasi, Prayagaraj, and other places as per their schedules.

IDENTIFICATION ABOUT THE SITE

Coordinates:

Latitude: [28°36'36"N](#)

Longitude: [77°13'48"E](#)



ABOUT SITE :

- **PROJECT NAME= INTERIOR OF NIRIMALA HOSPITAL, AYODHYA (U.P.), INDIA**
- **LOCATION = HIGHWAY ROAD , AYODHYA , UTTAR PRADESH**
- **AREA OF SITE= 3192.SQ.M.**



SITE IMAGES



SITE DETAILS:

This site deals with the study of details and around site surrounding such as topography, hydrography presence of infrastructure etc.

INFRASTRUCTURE:

- **Sewage system** – running in the center of the front road
- **Drainage system** - drainage are provided in nearby area.
- **Communication**- present
- **Electricity** – site is well catered with the electrical connection along with electrical poles and transformers.
- **Water supply** – both surfaces water and underground water are available at the site.

SOIL ANALYSIS:

The soil in Ayodhya , Uttar Pardesh Is primarily loam, sandy loam and clay. the Northern blocks of the district are mostly clay, while the southern blocks are mostly sandy. the soil reaction is usually neutral but can range from mildly acidic to mildly alkaline.

TOPOGRAPHY:

Site Is Almost Flat ,Mounted At The West Site With A Slope Of 1:150 Approx. To The East End Of The Site ,and Site Level With Reference To Road Is **0.45mtr Below The Road Level.**

VEGETATION:

- There are some trees behind the existing building and surroundings.

HYDROGRAPHY:

- Site Lies At A Distance Of Approximate **6.5km** From Tributary Of Saryu River.
- Water Quality Is Good.



NEAREST AIRPORT 154 KM
CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT



NEAREST BUS STATION 5.2 KM



NEAREST RAILWAY STATION 450 M



CLIMATIC STUDY:

The study focuses on the different climate of Ayodhya and its impact on building designing .The inferences drawn out of this analysis would be helpful in proceeding towards achieving an eco friendly design.

TYPES OF CLIMATE:

Ayodhya has a HUMID SUBTROPICAL CLIMATE, typical of Central India.

- Summers are long, dry , and hot, lasting from late march to mid- June with average daily temperatures near 32 degrees.
- Monsoon are characterized by heavy rainfall and average temperatures around 28 degrees.
- Winters are mild with average temperature near 16 degrees.
- Spring are a short transition period between winter and summer.

REQUIREMENT OF SITE:

- To evolve a design with forms and shapes with distinct architectural characteristics focusing on space utilization and functions reducing negative space.
- To provide well refined healthcare building with aesthetically appealing.
- Project should be designed considering all age groups and gender efficient.

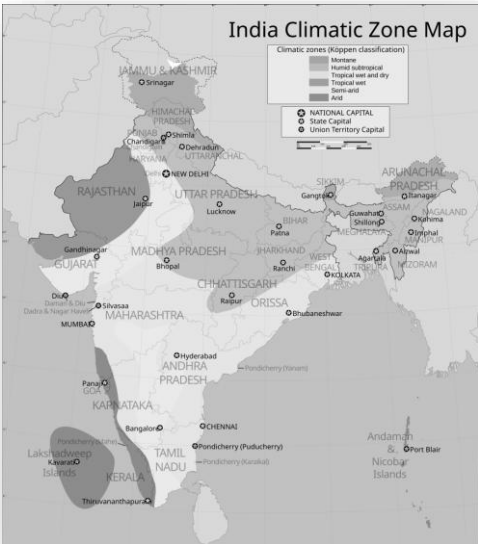
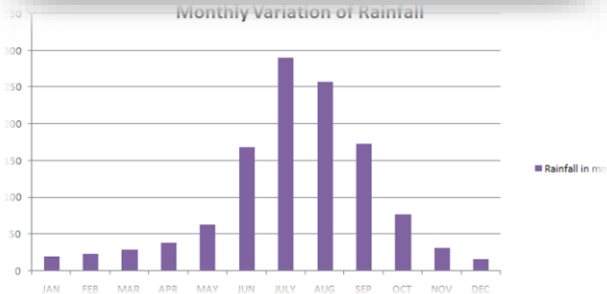
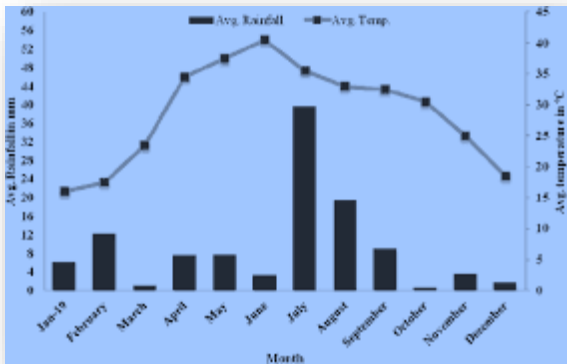
ARCHITECTURAL ENVNIRONS:

- Locally available material like bricks and concrete with be used in the building project.
- Separation of areas , circulation efficiency , vertical connectivity , healing environment , safety and hygiene.

MONTHLY RAINFALL:

- The geographical area is 2764 sq.km., Out of this cultivated area is 171000 ha.
- Annual average rainfall is 1067 mm.

CLIMATIC ANALYSIS :





CHAPTER 3 : LITERATURE STUDY

LITERATURE STUDY 1 : MEDANTA HOSPITAL , GURGAON



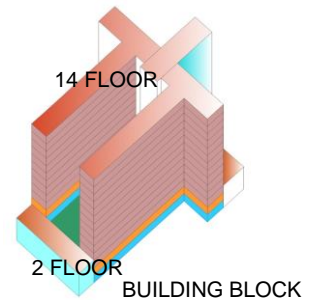
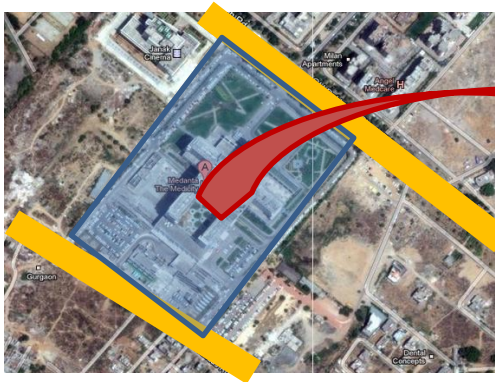
MEDANTA – THE MEDICITY is one of India's largest multi-specialty institutes located in Gurgaon. spread across 43 acres, The Institute includes a Research Center*, Medical And Nursing School*. It has 850 beds and over 350 critical care beds with 45 operation theatres catering to over 20 specialties. Medanta houses six centers of excellence which will provide medical intelligentsia, cutting-edge technology and state-of-the-art infrastructure with a well-integrated and comprehensive information system.

This hospital is India's First JCI approved super specialty tertiary care hospital of an estimated capacity 850 beds located in Gurgaon .it is estimated to care for almost 5-7 lakh people with its OPD and 55000-65000 patients through IPD out of which 35 % are operation cases. This hospital carry all the specialization which was in my hospital .

PROJECT BRIEFS

- Architect: PCJA , ARCOP GURGAON
- Location: Sector 38, Gurgaon , Harayana
- Client: Dr. Naresh Trehan
- Site Area: 43 Acres.
- Built Up Area: 102400 Sq.mt.
- Cost of Project: 1000 Crores+
- No. of Beds: Proposed 1250 bedded,850 in working
- Completion: 2009 A.D.

SITE



ACCESS TO BLOCK :

The main access is from 24 mtr. wide road name Baktawar Singh road
On the rear side for service entry it has Guru Haridas Road.
Three entry in front one for OPD entry and exit , other for emergency and for doctor .
For services like bio medical waste and medical equipment and medicine it has an back entry toward the Guru Haridas Road.

ABOUT BLOCK ORGANIZATION :

- The 3 T-shaped building of 14 Stored has diagnostic facilities on ground floor and on above floor it has Private ,Semi Private, Deluxe And Semi Deluxe in above floor.
- The right sided t block has diagnostic facilities on ground floor and on above floor it has 45 operation theatre with pre operation area, ICU,HDU and CCU . And on above to it has wards. On front t block merge in two t block has an OPD on each floor .
- On left sided t block there is a two stored block on ground floor it has an waiting and reception area and on second floor it has patient relative relax zone.
- At the back side 4 stored service block is attached with the building.

APPROACH TO HOSPITAL

- Distance from Delhi is 26 km.
- Distance From Huda city Centre Metro Station is 2.5 km.

SITE SURROUNDS:

- Site is located in sector 38 ,a newly developed area of Gurgaon.
- On the west side there are residential area.
- On the north west is the Chaudhary tau Devalal stadium.
- On the north east is the Milan apartment..
- On front and the rear there are road running.

OBJECTIVE OF STUDY:

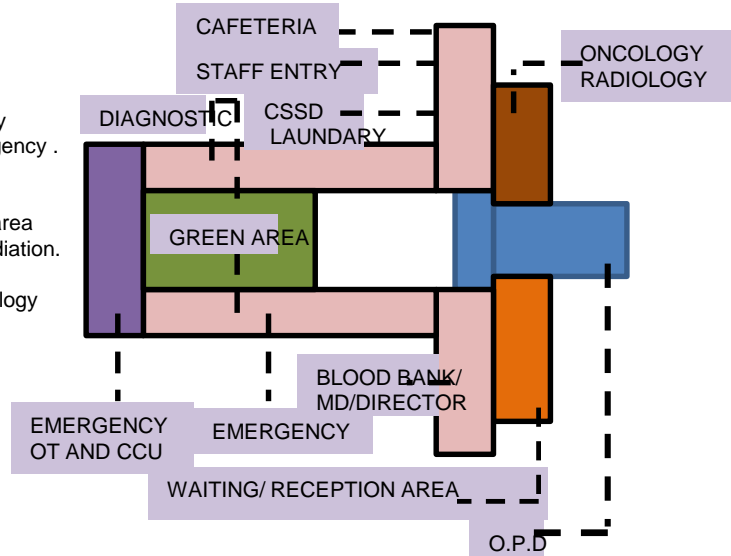
- To understand the designing of a specialty hospital and to analyze and understand the issues and technicalities associated to it and its merits



INTERIOR DETAILS

GROUND FLOOR

- Ground floor has three entry i.e. for:
 - 1.Main entry
 - 2.Emergency entry
 - 3.Staff entry
- In diagnostic two entry ,one from main lobby and from emergency .
- All diagnostic area are placed linearly.
- Ground floor ha three t shaped block:
 - 1.O.P.D
 - 2.Diagnostic
 - 3.Emergency
 - 4.Service area
- Attached to the left side t shaped block it has an oncology radiation.
- All area are connected with a corridor of width 2.4m.
- At the back of right side of the CCSD and Laundry the Radiology department of oncology is placed.
- Blood bank is placed at the emergency entry.

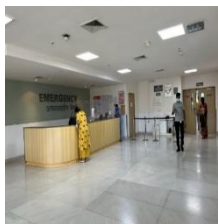
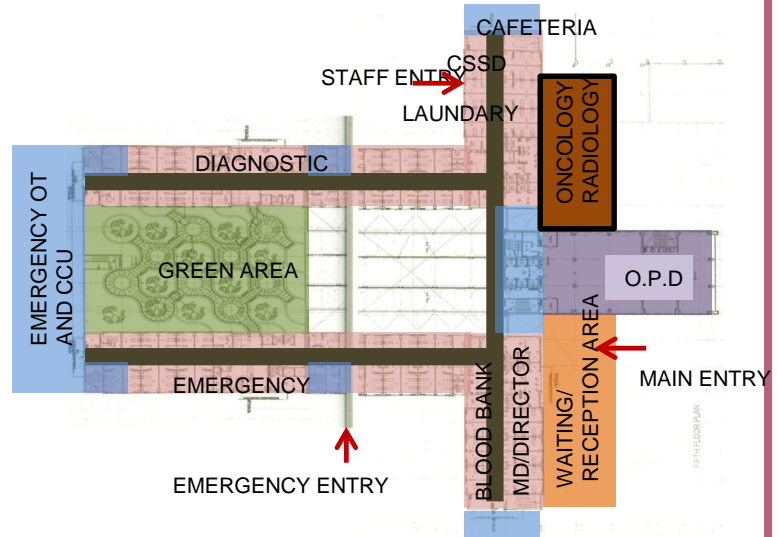


EMERGENCY

- Emergency is 25 bedded in which 10 are for critical patient, 12 are for observation, 3 are triage.
- O.T is there with plaster room and procedure room.
- It has one Nurse Station and Pharmacy Store.
- It has three counselling room.
- It has one linen room attached with equipment room.
- It has two recover room.

OPD

- Front block of t block structure houses is O.P.D block.
- Simple in both planning and service as I.P.D and diagnostic block.
- Main entry is from the reception /waiting area.
- Directly connected to the atrium and having its own reception.
- Distribution in all fourteen floors are similar in design.
- On ground floor it has an waiting area and appointment reception.



EMERGENCY



WAITING /RECEPTION



CAFETERIA



WAY TO OPD



RADIOLOGY



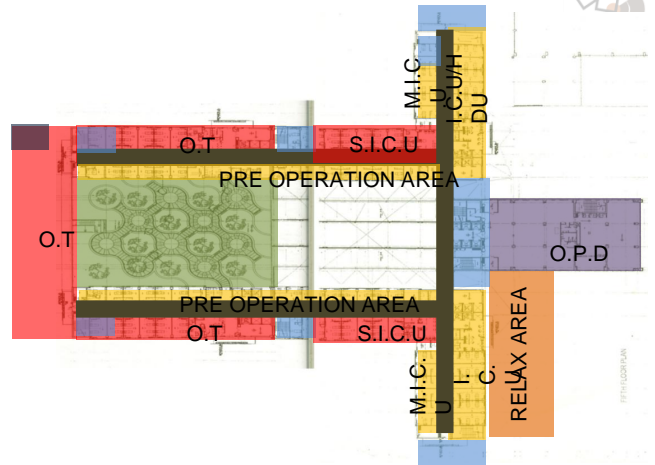
ONCOLOGY



FIRST FLOOR

•FACILITIES PROVIDED IN FIRST FLOOR:

- ❑ 40 NO. OPERATION THEATRE
- ❑ PRE OPERATIVE ROOM
- ❑ SURGICAL I.C.U
- ❑ CATH LAB
- ❑ STAFF AREA
- ❑ DAY CARE UNIT
- ❑ H.D.U
- ❑ O.P.D
- ❑ PATIENT RELATIVE RELAX AREA
- ❑ NURSE STATION



OPERATION THEATRE ZONE

- Total no. of Operation Theatre 40.
- Placed at the end of first floor with diagnostic facilities just below it and I.C.U's adjacent to it.
- Separate Entry For Patient, Doctors And I.C.U..
- At the two wing at the left wing it has an HDU and day care, and on the right hand wing it has an I.C.U.
- 40 O.T present with shared support facilities.
- The Bio Waste and Laundry service is done by lift at right wing.
- 4 Separate Lift are provided for O.T. Service.



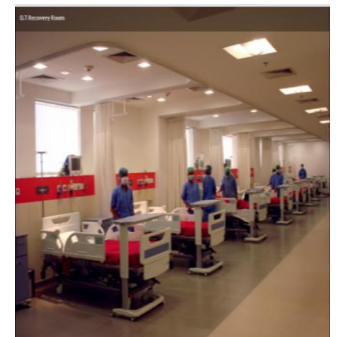
INTENSIVE CARE UNIT

- 250 bed C.U is placed adjacent to O.T complex on first floor and present in all floor up to 14 th floor.
- Comprises of 12 bedded M.I.C.U ,15 bedded surgical I.C.U ,10 H.D.U per floor, 8 day care per floor.
- I.C.U are attached to the M.I.C.U.
- Centrally located nurse station with central monitoring system.
- Nurse station 6 bed per Nurse Station in MICU, 5 bed per n station for surgical and one for HDU and one for Day Care Unit.



I.P.D

- 14 stored T-shaped block has an I.P.D facilities by providing I.C.U, Day Care Unit, C.C.U ,Semi Private and Private wards.
- Private and Semi Private wards are in ratio of 1:3.
- Nurse Station is given 15 bed per station.
- 8 lift are for I.P.D patient.
- Nurse Station ,service lifts are placed in the same corridor.
- Beds are placed along the periphery to have easy circulation.
- Piped oxygen and suction is provided in each ward.
- Units are inter connected with the toilet at the end.
- For privacy curtains are used.
- Pre operation room are placed opposite to the O.T.
- Pre operation unit are 35 in numbers.



HIGH DEPENDENCY UNIT

- Direct related to nurse station.
- 10 bedded high dependency ward with attached toilet is provided.
- Naturally ventilated light.

DAY CARE UNIT

- Day Care has 8 Bedded .
- It has one Nurse Station.





SECOND TO 14 TH FLOOR

•FACILITIES PROVIDED IN FIRST FLOOR:

- ❑ Semi deluxe Room
- ❑Deluxe Room
- ❑H.D.U
- ❑Day Care Unit
- ❑ Relax Area
- ❑Nurse Station

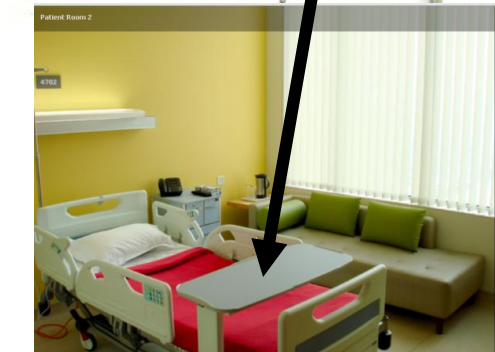
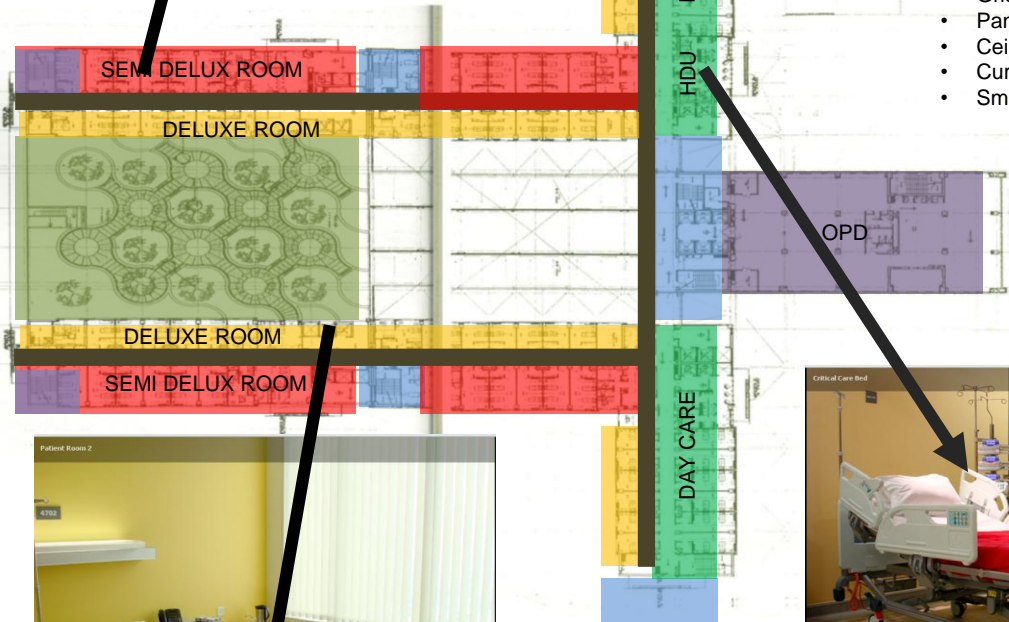
ROOM	QUANTITY	AREA
O.T	40	8.5X8.5M
PRE OPERATION	35	6.1X4.25M
S.I.C.U	15	6.1X4.25M
M.I.C.U	12	370SQM
H.D.U	10	21.2X8.5M
DELUX ROOM	15/FLR	6.1X4.25M
SEMI DELUX	35/FLR	8.5X4.25M



- SEMI DELUX ROOM:
- Wall painting.
 - Matte finish floor Tiles.
 - Grid ceiling
 - Panel ceiling light.



- DAY CARE UNIT:
- Wall painting.
 - Matte finish floor Tiles.
 - Grid ceiling
 - Panel ceiling light.
 - Ceiling A.C panel
 - Curtain for privacy .
 - Smoke Detectors



- DELUX ROOM:
- Wall painting.
 - Matte finish floor Tiles.
 - Grid ceiling
 - Panel ceiling light.
 - Ceiling A.C panel
 - Curtain for privacy .
 - Smoke Detectors
 - Sofa for attendant



- HIGH DEPENDENCY UNIT:
- Wall painting.
 - Matte finish floor Tiles.
 - Grid ceiling
 - Panel ceiling light.
 - Ceiling A.C panel
 - Curtain for privacy .
 - Smoke Detectors



CHAPTER 3 : LITERATURE STUDY

- LITERATURE STUDY 2 : MAX HOSPITAL , LUCKNOW



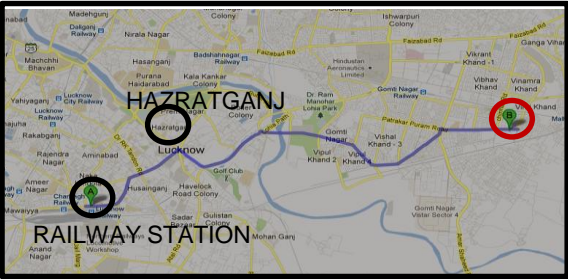
The 300 bedded hospital spread on an area of 27 acres, is planned to offer services in more than 52 Specialities , Super specialties and diagnostic modalities under one roof complete diagnostic solution.

This Hospital is India's First 7 Star Rating Multi Speciality Tertiary Care Hospital Of An Estimated Capacity 550 Beds Located In Lucknow .It is estimated to care for almost 3 Lakh People With Its OPD And 50000 Patents Through IPD annually . This hospital carry all the specialization which was in my hospital excepting Oncology.

PROJECT BRIEFS

- **Architect:** ARCHITECT HAFEEZ CONTRACTOR , ARCHIMEDES CONS.PVT.LTD
- **Location:** Sector 38, Gurgaon, Hararyana
- **Client:** Sahara India Parivar
- **Site Area:** 27 Acres.
- **Built Up Area:** 74000 Sq.mt.
- **Cost of Project:** 400 Crores+
- **No. of Beds:** 550
- **Completion:** 2008 A.D.

SITE



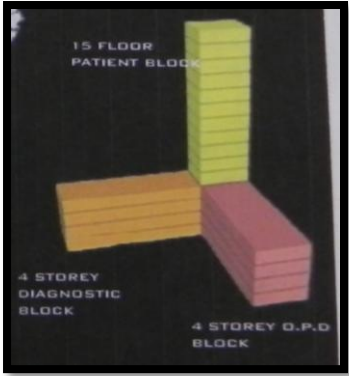
ENTRY FOR EMERGENCY
ENTRY FOR OPD
ENTRY FOR SERVICE
EXIT FOR OPD



RAILWAY LINE
24 MTR WIDE MAIN ROAD

ACCESS TO BLOCK :

The main access is from 24 mtr wide road on two side of which other side of the road is Gomti nagar commercial.
Plots with no. of small malls at other vicinity is filled with residential area.
There are two entry from south i.e. one for emergency and other for OPD and doctor.
One entry is from east side for exit for OPD and doctor.
One entry is from north east for service entry .



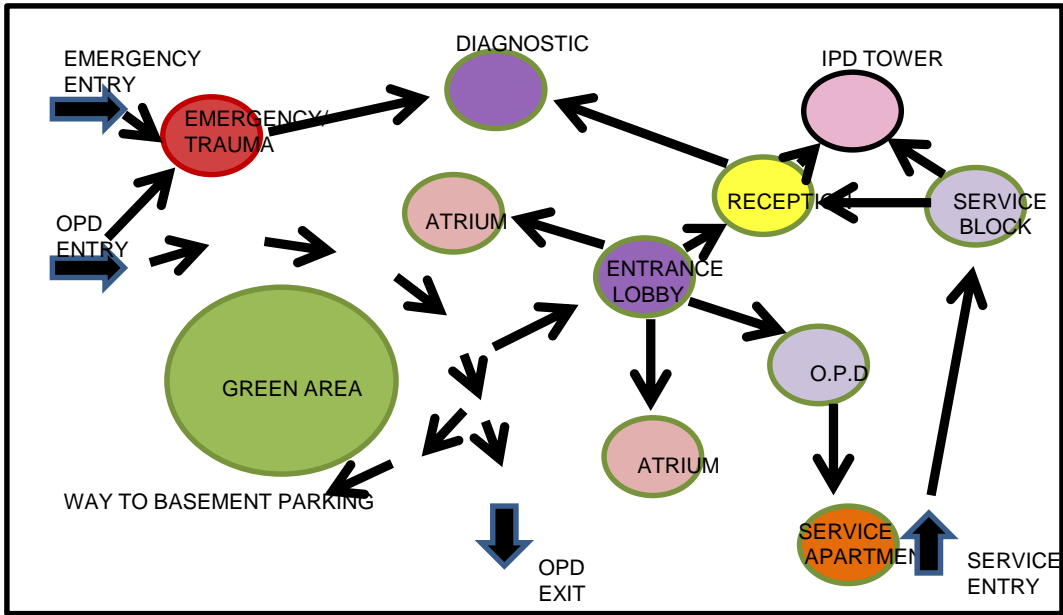
ABOUT BLOCK ORGANIZATION :

- ❑The L-shaped 4 stored building high, block houses the diagnostic zone in one arm and OPD in other.
- ❑The 16 stored high tower is the patient's tower rising from the center and is fronted by a double height lobby, which function as the entrance foyer for all the zones.
- ❑Two organically shaped double heighted atrium emerge from the main foyer.
- ❑The interior are highlighted by the sunny vistas, closeness to nature and soothing materials.





SITE ZONING



ABOUT FUNCTION

- Entrance to the site is from north east as well as from south east.
- The site is almost of a 1:2 proportion ; diagonally and the portion that makes up the foreground caters to the adequate landscape elements with underground parking beneath it.
- The main hospital structure is located in the second notional portion of the site i.e. on the back ground stretching towards the south west.
- The service block is located in the south west corner of the site.
- Provision for morgue has also been provided next to service block on the extreme south west corner.
- Provision has been made for patient relative accommodation on the northwest region of the site.
- A connecting bridge connecting the service and the tower block is also present.

DESIGN CONSIDERATION

- The L- shaped stored high block houses the diagnostic zone in one arm and OPD in another.
- The 16 stored high tower is the patient's tower rises from the center and is fronted by a double height lobby, which functions as the entrance foyer for all the zones.
- Two organically shaped double height atrium emerge from this main foyer.
- The interiors are highlighted by the sunny vistas, closeness to nature and so then materials.
- The service block is separate and linked by a bridge.
- More green area is left for better environment i.e. about 75 % area is green area.

PARKING

- Basement parking is provide for 350 cars.
- Basement parking is underneath the large and open green space and is accessed by means of 2 ramps on either ends.
- Parking is categorized as follows :
 1. Ambulatory – 5 in nos. At the emergency exit
 2. Staff/VIP behind the linear block on the surface.
 3. Visitor at basement

CIRCULATION

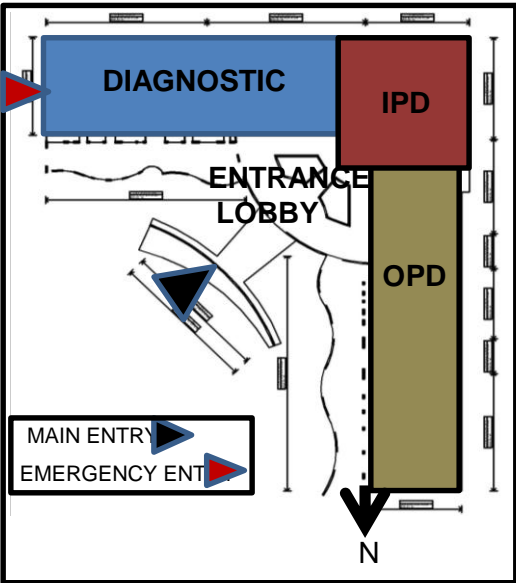
- Entry is provided from the middle of the parking site.
- Public is restricted to a certain extent in the building so as to prevent them from interfering in the privacy of staff, nurse and doctors.
- Horizontal circulation is done through corridors.
- Vertical circulation by means of lifts and staircase.





GROUND FLOOR

INTERIOR DETAILS



Diagnostic

- Two entries ,one main and one from the wing perpendicular to O.P.D.
- Multi entries to all the Diagnostic areas.
- Linear block consists of three zones in ground floor that are :
 - 1.Emergency O.T , triage rooms ,plaster rooms ,physiotherapy ,dialysis and consulting rooms.
 - 2.Diagnostic – Radiology ,CT scan
 - 3.Pathology labs , administration.
- All the above areas have separate entries connected via an atrium and are inter connected by 2.4 m doubly loaded corridor.
- All the wings are connected with 2.4 mtr. corridor.
- The placing of block in I shaped reducing the 30 % circulation area.
- At every 30 mtr. distance in corridor there are fire exit .
- Proper waiting area provided in all the facilities.
- Lift is provided at the center as well as at the corner.



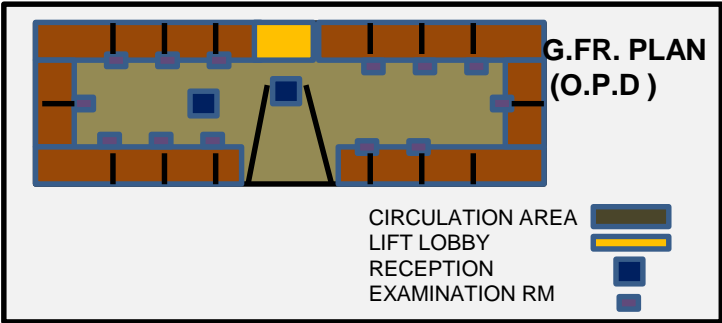
EMERGENCY

- Emergency is 12 bedded in which 6 are for critical patient, 6 are for observation, two are triage.
- One O.T is there with plaster room and procedure room.
- It has one nurse station and pharmacy store.
- It has one counselling room.
- It has one linen room attached with equipment room.

O.P.D

- Front block of 4 tier structure houses O.P.D block.
- Simple in both planning and service than I.P.D and diagnostic block.
- Main entry is from the parking area.
- Directly connected to the atrium and having its own reception.
- Distribution in all four floors are similar in design.

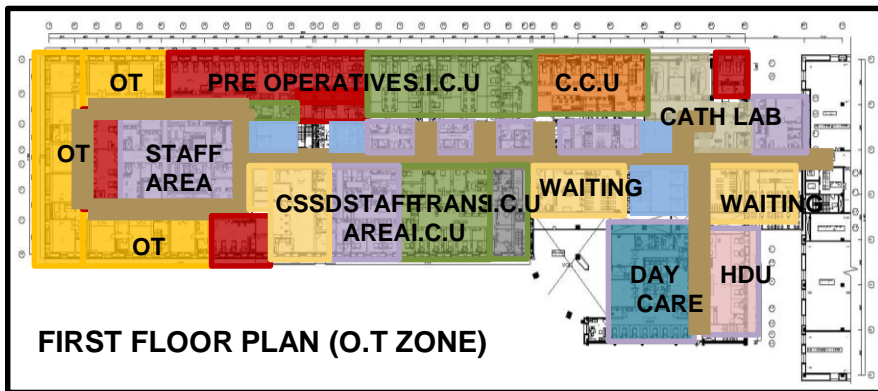
S.NO	FACILITIES	AREA(SQM)
1.	EMERGENCY	780
2.	HEMATOLOGY	64
3.	BIOCHEMISTRY/HISTOPATHOLOGY	120/140
4.	MICROBIOLOGY	125
5.	CT SCAN	240
6.	MRI	150
7.	DSA LAB	260
8.	HYPERBARIC CHAMBER	160
9.	ADMINISTRATION	200
10.	ADMIN OFFICER	145
11.	DIALYSIS	300
12.	PHYSIOTHERAPY	300
13.	BLOOD BANK	440+200
14.	RADIOLOGY	820





INTERIOR DETAILS

FIRST FLOOR



Facilities provided In First Floor:

- ☐ Operation Theatre
- ☐ Pre Operative Room
- ☐ Surgical I.C.U
- ☐ Staff Area
- ☐ C.S.S.D
- ☐ Day Care Unit
- ☐ H.D.U

OPERATION THEATRE ZONE

- Placed at the end of first floor with diagnostic facilities just below it and I.C.U's adjacent to it.
- Separate entry for patient, doctors and I.C.U..
- Isolated from rest of the hospital hence minimum traffic flow.
- 10 O.T present with shared support facilities.
- Its own sterile area between clinical and ward zone.



INTENSE CARE UNIT

- 120 bed C.U is placed adjacent to O.T complex on first floor placed in double corridor.
- Comprises of 11 bedded M.I.C.U, 12 bedded Surgical I.C.U, 12 bedded neuro I.C.U, 4 bedded Transplant I.C.U And Coronary I.C.U.
- I.C.U Are attached To The Cath Lab.
- Centrally located nurse station with central motion system.

HIGH DEPENDENCY UNIT

- Direct related to nurse station.
- 8 bedded high dependency ward with attached toilet is provided.
- Artificially lighted and ventilated.



I.P.D AND GENERAL WARDS

- 15 stored tower houses the I.P.D and general ward, placed on the junction of the blocks.
- Compact square is adopted
- Patient and visitor entry is from the same corridor of width 2.4m.
- Nurse station, service lifts are placed in the same corridor.
- Beds are placed along the periphery to have maximum ventilation and light.
- Piped oxygen and suction is provided in each ward.
- Spacious rooms are separated from the other rooms.
- Two nursing station are provided.
- Six bedded general wards
- Placed in tower of two floors.
- Units are inter connected with the toilet at the end.
- For privacy curtains are used.

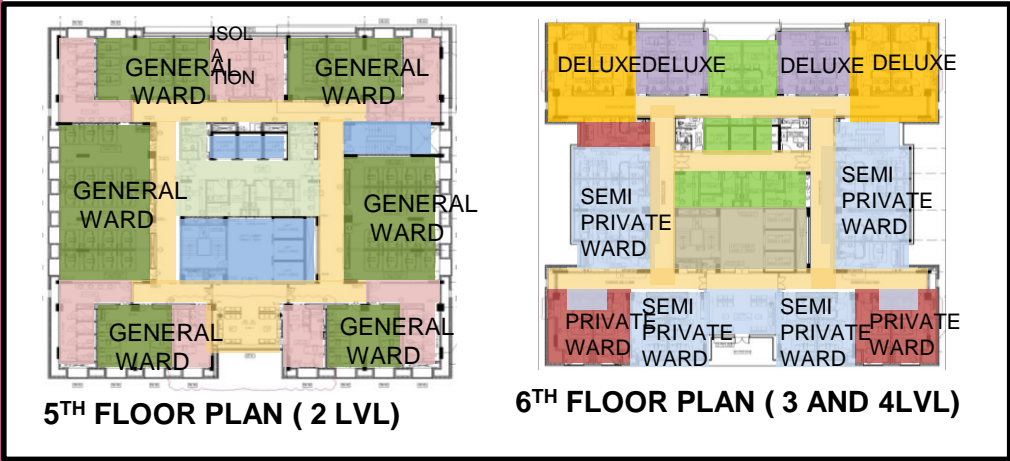
MATERNITY AND NEONATAL I.C.U

- Located on the first floor of the tower.
- Consists of two labour rooms.
- Nurse station and other services are provided in the central core.
- Neonatal I.C.U is bedded with all latest technology technology and mother feeding room.





INTERIOR DETAILS



Area of general ward :
9000x7350mm
Private room : 3500x 3650mm
Semi private room : 4550 x 3675mm
Deluxe room : 3675 x 3650 mm
Semi deluxe room; 3675x 3500

PRIVATE WARDS

- Consists of a patient room with attached toilet and pantry.
- Bed is totally remote control.

SEMI PRIVATE ROOM

- Room with two beds and attached toilet.
- Balcony and curtain for privacy.
- Equipped with all facilities and sixth floor.

DELUXE ROOM

- Single deluxe , deluxe and semi deluxe suit are located in the center with all the services in central core.
- Rooms with attached toilet ,balcony and sofa cum bed is allotted.



GENERAL	150
SEMI PRIVATE	70
PRIVATE WARDS	30
SEMI DELUXE	15
DELUXE	5
I.C.U	30



CHAPTER 4 : CASE STUDY

- CASE STUDY 1 : CHANDAN HOSPITAL , LUCKNOW



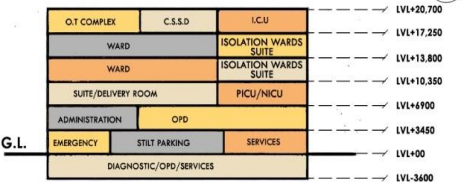
Chandan hospital is situated In Vijayant Khand , Gomti Nagar , Lucknow ,U.P. The 300 bedded hospital spread on an area of 27 acres, is planned to offer services in more than 52 specialities , super specialties and diagnostic modalities under one roof complete diagnostic solution. This hospital is multi speciality tertiary care hospital of an estimated capacity 300+ beds located in Lucknow .It is estimated to care for almost 3 lakh people. With its OPD and 50000 patents through IPD annually . This hospital carry all the specialization which was in my hospital excepting oncology

PROJECT BRIEFS

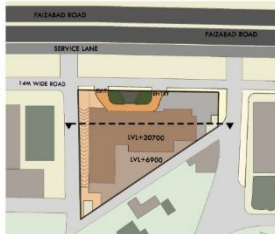
- Architect: Ar. Sandeep Kumar Saraswat
- Location: Vijayant Khand , Gomti Nagar ,Lucknow
- Client: Dr. Amar Singh
- Site Area: 0.95 Acres.
- Built Up Area: 11764 Sq.mt.
- Cost of Project: 400 Crores+
- No. of Beds: 300
- Completion: 2018 A.D.

SITE

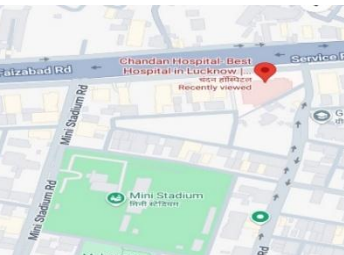
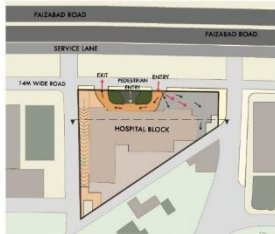
BUIDING SECTION



SITE PLAN



SITE ROAD AND MOVEMENT



RAILWAY LINE
24 MTR WIDE MAIN ROAD

APPROACH TO HOSPITAL

- Distance From Awadh Station Is 700 M.
- Distance from Charbagh Railway station is 12.9 km

SITE SURROUNDS:

- Site Is Located In Gomti Nagar, a newly Developed area In Lucknow.
- On The West There Are Residential Belt.
- On The East Is The Commerical Belt.
- On The North ,There Is Fiazabad Road .
- On The South Runs A Road Line and further back is The Residential Stretch

OBJECTIVE OF STUDY:

- To understand the designing of a specialty hospital and to analyze and understand the issues and technicalities associated to it and its merits

ACCESS TO BLOCK:

- The site has direct accessibility to the road .
- There are 2 prominent entry points.
- The primary entrance to the site is 40m wide , A secondary service entry 4.5m wide that leads to the service zone at the rear of the site.

ABOUT BLOCK ORGANIZATION :

- ❑The polygon-shaped 4 stored building high, block houses the diagnostic zone in one arm and OPD in other.
- ❑The 16 stored high tower is the patient's tower rising from the center and is fronted by a double height lobby, which function as the entrance foyer for all the zones.
- ❑Two organically shaped double heightened atrium emerge from the main foyer.
- ❑The interior are highlighted by the sunny vistas ,closeness to nature and soothing materials.

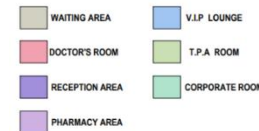




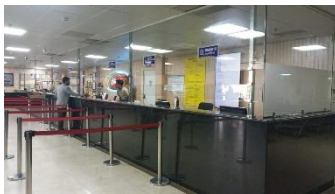
INTERIOR DETAILS

GROUND FLOOR

- Ground floor have mainly reception area , waiting area , pharmacy, T.P.A room , doctor's room , Gynecology department near to pediatric department .
- Admin office is located to reception . Pharmacy is next to entrance. Minor OT is near OPD room .
- OPD room is in proximity to OT and next to reception. 18 OPD cabins are there.
- Staircase is 2m wide is given.
- Ramp is located near parking and with slope 1: 15 .



Interior Details



Reception area

- Wall paneling is done .
- Flooring is done by tile.
- Ceiling tile is done on ceiling.
- Normal counter is made with granite stone up to height 4.6 ft. Then glass is used up to ceiling.



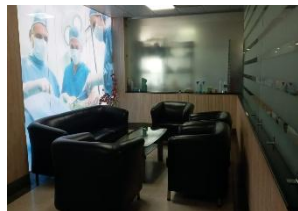
OPD room area

- Wall paneling is done .
- Flooring is done by tile.
- Ceiling tile is done on ceiling.
- Curtains is used in windows.
- Customized table is used.
- Centralized A.C system is given.



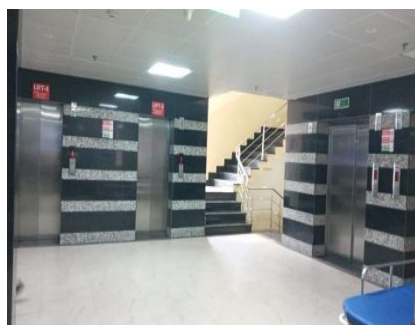
Pharmacy area

- Wall paneling is done .
- Flooring is done by tile.
- Ceiling tile is done on ceiling.
- Normal counter is made with granite stone up to height 4.6 ft. Then glass is used up to ceiling.
- 6 person can sit in this area ,rack are made for medicines ,cabinet are made for storage.



VIP Waiting area

- Wall paneling is done.
- Glass is used.
- Ceiling tile is used.
- Normal tile flooring.
- Clam and cozy space was create next to entrance for VIP guest to wait.





INTERIOR DETAILS

FIRST FLOOR

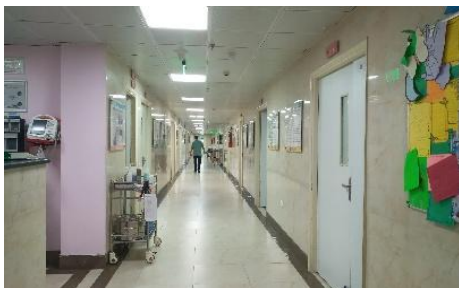
- First floor have mainly Delivery Room , Private Room, Semi- Private Room , Presidential Suite , PICU , NICU , IVR .
- 8 feet wide corridor for circulation through all the rooms.

Interior Details



Private room

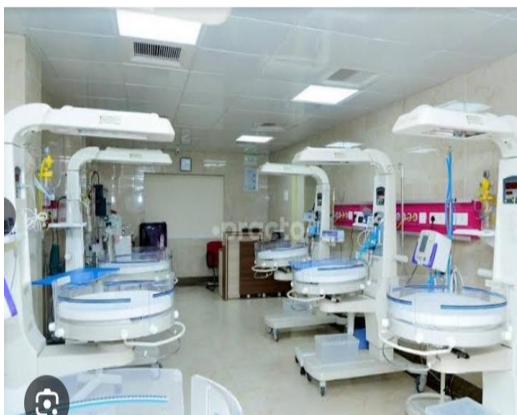
- Wall finishes is done using two different types of paint.
- Centralized A.C is done in every rooms.
- Sofa is provided for family members of patient.
- 4 inches skirting is done along with tile flooring.



Corridor of Private Room and Semi-Private Room



PICU Room



NICU Room

- NICU room has 6 bed , along with nurse station within it.



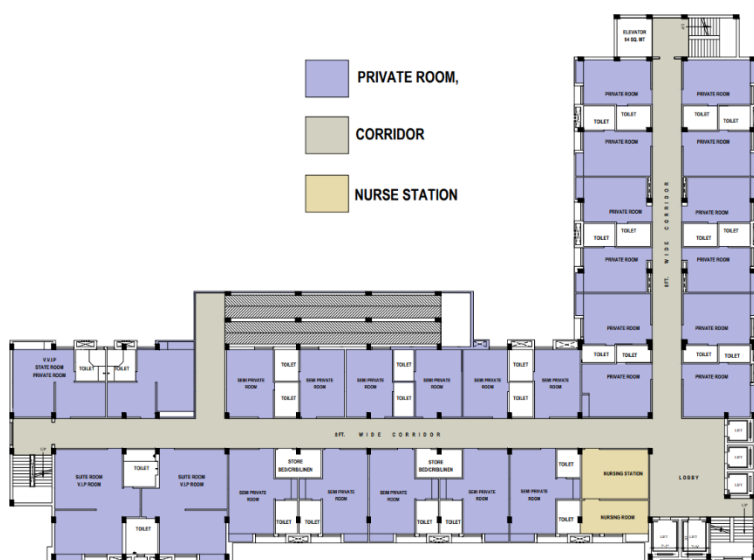
Corridor of NICU and PICU Rooms



INTERIOR DETAILS

SECOND AND THIRD FLOOR

- Second and third floor are typical floors have mainly Private Room , Semi- Private Room , Suite Room , VVIP State Room, Nurse Station.
- 8 feet wide corridor for circulation through all the rooms.
- There are 12 private rooms, 10 semi-private rooms , 2 suite rooms, 2 VVIP state room and 1 nurse station.

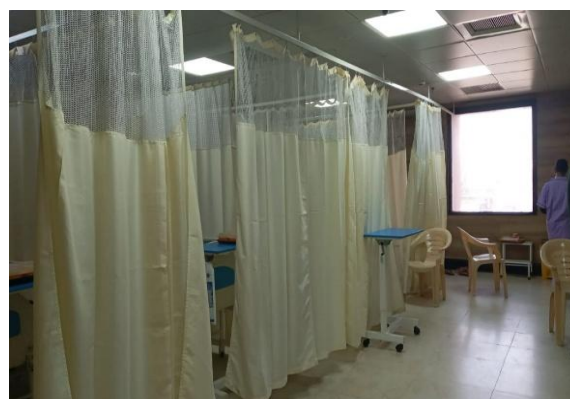
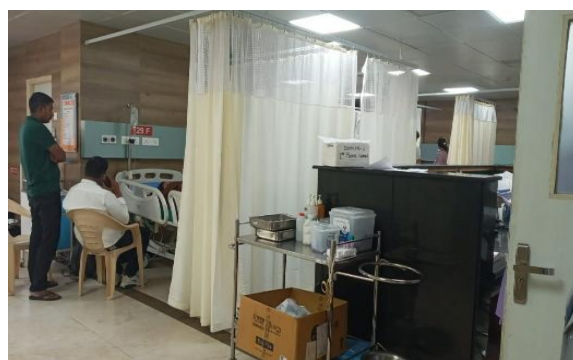


Interior Details



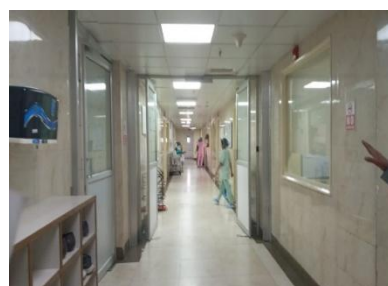
Nurse Station

- Wall painting is done .
- Flooring is done by tile.
- Metal grid ceiling tile is done on ceiling.
- Normal counter is made with granite stone up to height 4.6 ft.



Corridor of Private Room and Semi-Private Room

- Wall Tile is done .
- Flooring is done by tile with simple design pattern.
- Metal grid ceiling tile is done on ceiling. Panel ceiling light has been used.



General Wards



INTERIOR DETAILS

FOURTH FLOOR

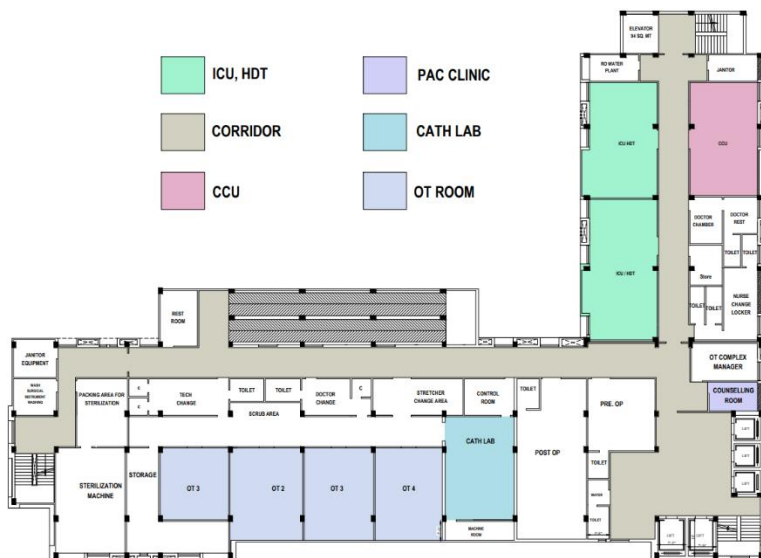
- OT complex is located at fourth floor thus no disturbance in the operation procedures.
- ICU, CCU, KTU Cath lab is located at fourth floor so, there will be no disturbance in the treatment of patients.

Interior Details



PAC Clinic next to OT Complex Manager Room

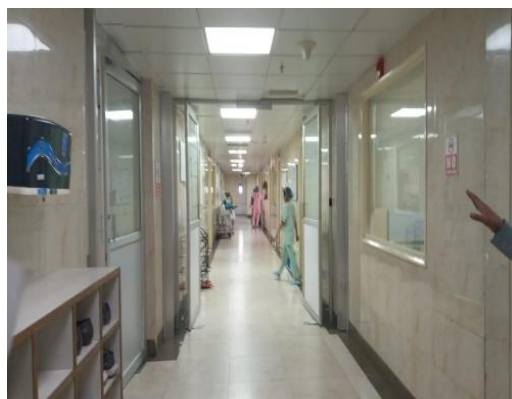
- Wall painting is done .
- Flooring is done by tile.
- Metal grid ceiling tile is done on ceiling.
- Store cabinet was given in which wooden texture laminate was used.



CCU Room

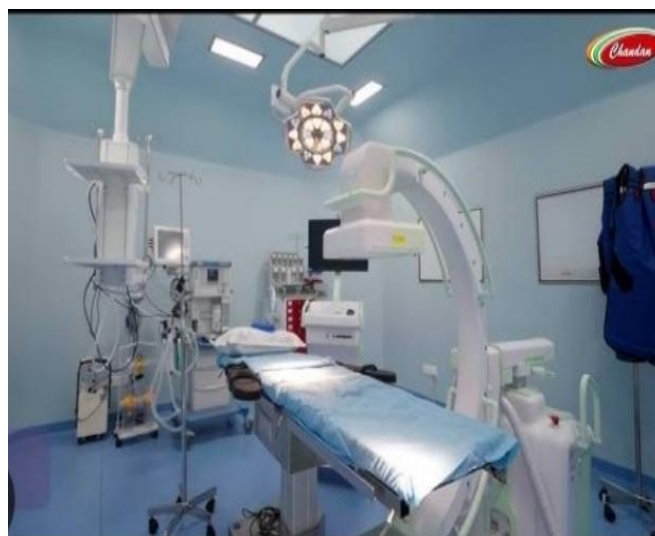


OT Room



Corridor of CCU, KTU and ICU Room

- Wall Tile is done .
- Flooring is done by tile with simple design pattern.
- Metal grid ceiling tile is done on ceiling.
- Panel ceiling light has been used.
- This was separated.



Cath Lab



CHAPTER 5 : DESIGN IDEATION

- CONCEPTUALIZATION OR THEME,
- FLOOR PLAN,
- ELECTRICAL PLAN ,
- CEILING PLAN ,
- FIRE SERIVES PLAN ,
- 2D WALL ELEVATION WITH MATERIAL USED,
- 3D VIEWS





INTERIOR THEME

▪The **contemporary modern interior style** is all about clean lines, open spaces, and a sleek, sophisticated vibe. It's a blend of current design trends and modern principles that focus on simplicity, comfort, and functionality.

Elements:

1. Color palette:
 - Neutral tones dominate: **whites, greys, blacks and beiges**. Accents of bold colors like navy, deep green or terracotta for contrast.
2. Materials and textures:
 - Smooth and polished surfaces: **glass, metal and stone**. Natural textures like **wood, leather, linen** to balance out the sleekness.
3. Furniture:
 - Low-profile, clean-lined, and functional. Comfortable yet structured seating. Minimal ornamentation, often with a mix of metal and wood.
4. Lighting:
 - Lots of natural light with large, unobstructed windows. Statement light fixtures like sculptural pendants or minimalist track lighting.
5. Layout:
 - Open-concept spaces with minimal clutter. Functional flow between areas, often with multi-purpose zones.
6. Technology:
 - Hidden storage and clean cable management.

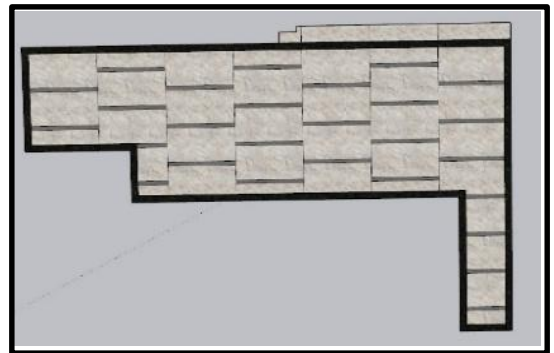
CONCEPT

▪In a design context, the concept of **Biophilic** refers to architecture and urban planning that mimics natural environments to enhance and improve well-being. **Biophilic interior design** is more than just a buzzword. It's a philosophy that explores our innate love for nature, a concept known as biophilia.

▪There are 3 pillars of biophilic design:

- i. **Nature in the space,**
- ii. **Nature of the space and**
- iii. **Natural analogues.**

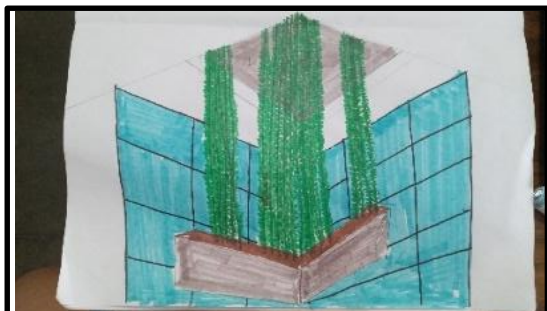
CONCEPTUAL SKETCHES



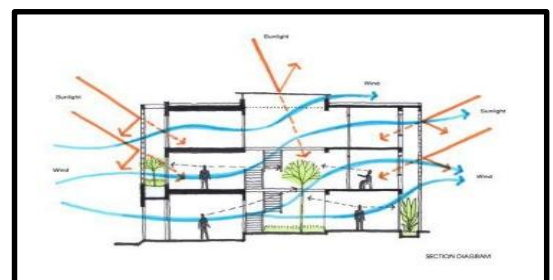
Flooring pattern for Reception and double heighted space.



Wall pattern for corridors and Reception area



For Canteen Area



Example of flow Of wind And effect Of sunlight In Context Of Biophilic.



MATERIAL BOARD
FLOOR



Vitrified Tiles



Vitrified Tiles



Vitrified Tiles

CEILING



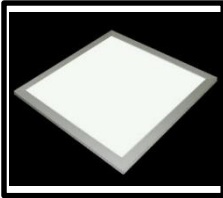
Metal Grid Ceiling



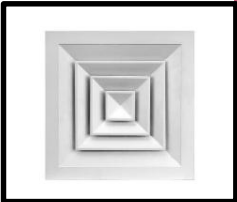
COB Light



Pop Murgajali



Panel Light



A.C Panel



Smoke Detector



4 Way Cassette A.C

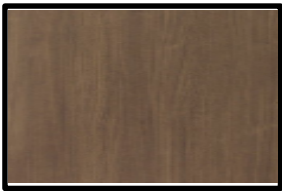


Ceiling Exhaust Fan



Sprinkler

WALL



Laminates



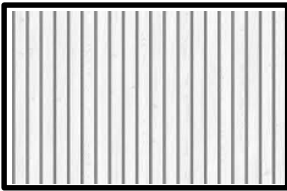
Fluted Laminates



Toughened Glass



Leather Sheet



Fluted Panel



Glass Brick



Glass



MATERIAL BOARD

S.N O.	INTERIOR MATERIAL	THICKNESS	SIZE	TYPES	COMPANY NAME	MANUFACTURING MARKET RATES
1	VETRIFIED TILES	10-12 MM	600 X 600	<ul style="list-style-type: none"> FULL BODY DOUBLE CHARGE GLAZED POLISHED GLAZED SOLUABLE SALT 	<ul style="list-style-type: none"> KAJARIA SOMAY SIMPOLO NITCO VARMORA 	<ul style="list-style-type: none"> MIN. PRICE= RS. 52 BOX MAX. PRICE= RS. 1500 BOX MIN. PRICE= RS. 18 SQ.FT MAX. PRICE= RS. 55 SQ.FT
2	CEILING MOUNTED DOWN LIGHTS		<ul style="list-style-type: none"> 3W= 60X54 MM 5W= 90X 54MM 10W=108X7 5MM 15W=108X7 5MM 20W=140X8 7MM 25W=158X1 25MM 30W=158X1 25MM 		<ul style="list-style-type: none"> PANASONI C PHILIPS RR HAVELS ORIENT 	<ul style="list-style-type: none"> MIN. PRICE= RS. 300 PER PIECE MAX. PRICE= RS. 2000 PER PIECE
3	PVC SHEETS	3MM TO 40 MM	1220MM X 2440MM	<ul style="list-style-type: none"> TRANSPA RENT VINYL FLEXIBLE SHEETS RIGID SHEETS PVC SOILD SHEETS INKJET PVC SHEETS 	<ul style="list-style-type: none"> SOFTEX CENTURY PLY GYPROC SAINT GOBAIN 	<ul style="list-style-type: none"> MIN. PRICE= RS. 106 KG MAX. PRICE= RS. 176 KG MIN. PRICE=RS.690 SHEET MAX. PRICE= RS.2500 SHEET MIN.PRICE=RS.11 PIECE MAX.PRICE=RS.500 0 PIECE MIN.PRICE=RS.19 SQ.FT MAX.PRICE=RS.300 SQ.FT

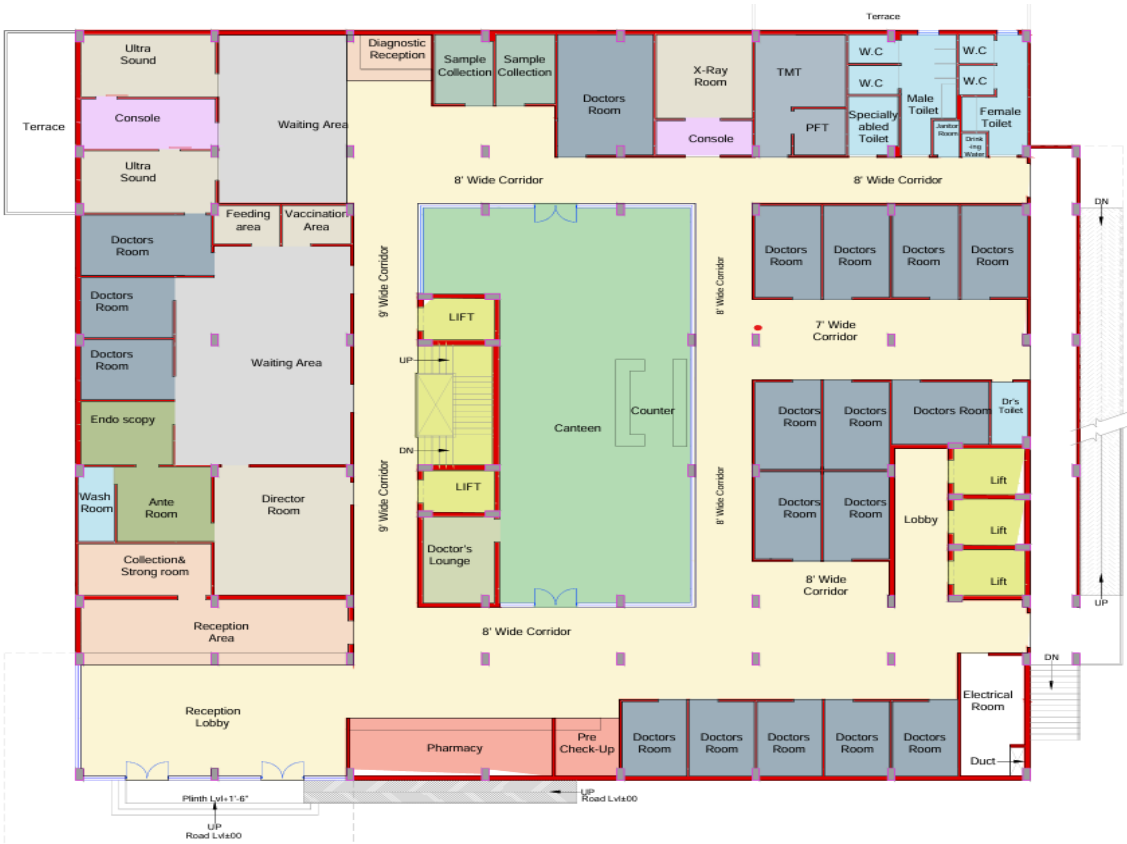


MATERIAL BOARD

S.NO.	INTERIOR MATERIAL	THICKNESS	SIZE	TYPES	COMPANY NAME	MANUFACTURING MARKET RATES
4	PLYBOARDS	3MM TO 25 MM	<ul style="list-style-type: none">• 8 X 4 FEET• 8 X 6 FEET• 9 X3 FEET• 9 X6 FEET	<ul style="list-style-type: none">• SOFT• HARD• TROPICAL	<ul style="list-style-type: none">• CENTURY PLY• GREEN PLY	<ul style="list-style-type: none">• MIN.PRICE=RS.20 SQ.FT• MAX.PRICE=RS.350 SQ.FT
5	ASAIN PAINTS			<ul style="list-style-type: none">• ROYAL ASPIRA• ROYAL ATMOS• ROYAL LUXURY• EMULSION ROYAL		<ul style="list-style-type: none">• RS.395.00 PER LITRE• RS. 355.00 PER LITRE
6	VENEER	0.8 TO 1 MM	8 X 4 FEET	<ul style="list-style-type: none">• COMPOSITE• PORCELAIN	<ul style="list-style-type: none">• CENTURY PLY LAMINATES• GREEN PLY INDUSTRIES• SAMRAT PLYWOOD LIMITED.	<ul style="list-style-type: none">• MIN.PRICE=RS.40 SQ.FT• MIN.PRICE=RS.2196 PIECE• MAX. PRICE= RS. 2585 PIECE
7	LED LIGHTS (31308 LED STRIP) 28 W	2MM	<ul style="list-style-type: none">• 5 METRE• 6 METRE• 20 METRE• 40 METRE• 60 METRE	WATERPROOF	<ul style="list-style-type: none">• PANASONIC• PHILIPS• RR• HAVELS• ORIENT	<ul style="list-style-type: none">• MIN.PRICE=RS.150 METRE• MAX. PRICE= RS. 350 METRE.



GROUND FLOOR PLAN



FIRST FLOOR PLAN





SECOND FLOOR PLAN



THIRD FLOOR PLAN





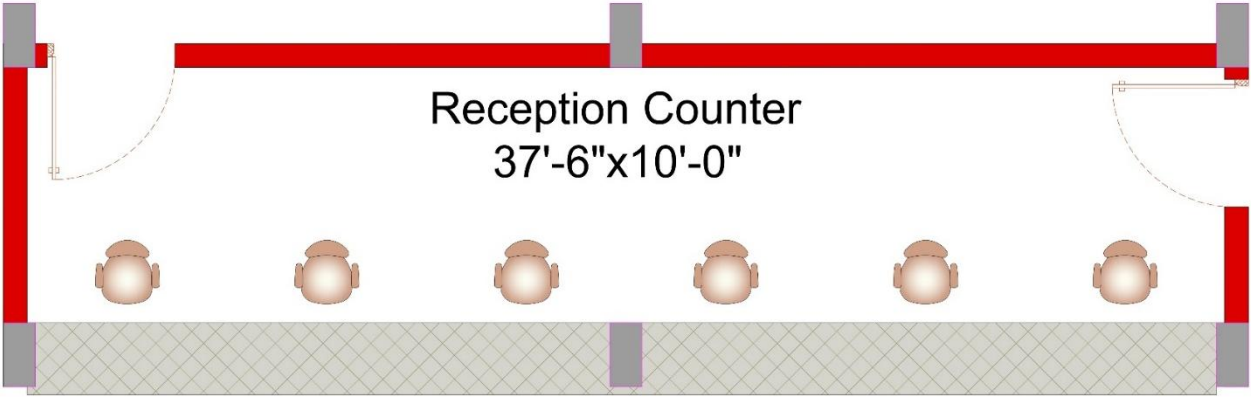
CHAPTER 6 : DESIGN EVOLUTION

- PRESENTATION PLAN
- FLOOR PLAN
- CEILING PLAN
- ELECTRICAL PLAN
- FURNITURE DETAIL AND 2D WALL ELEVATIONS
- 3D VIEWS

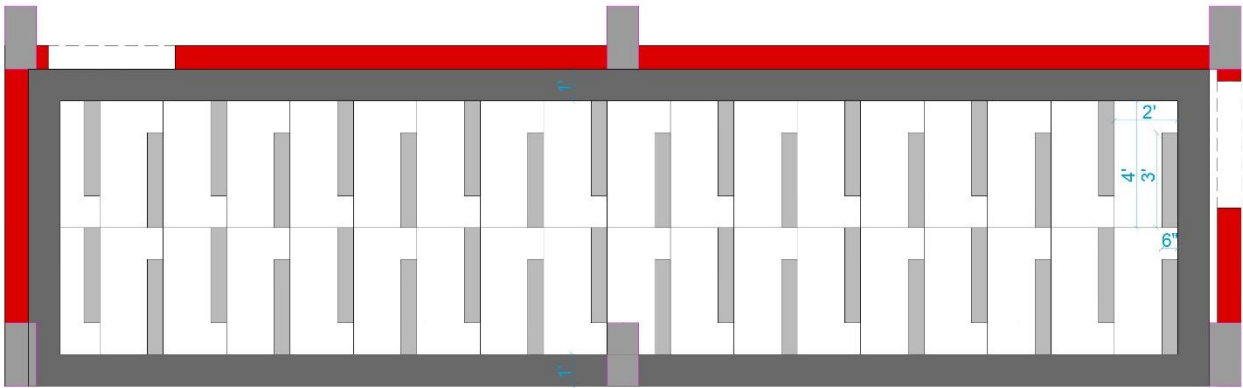




RECEPTION

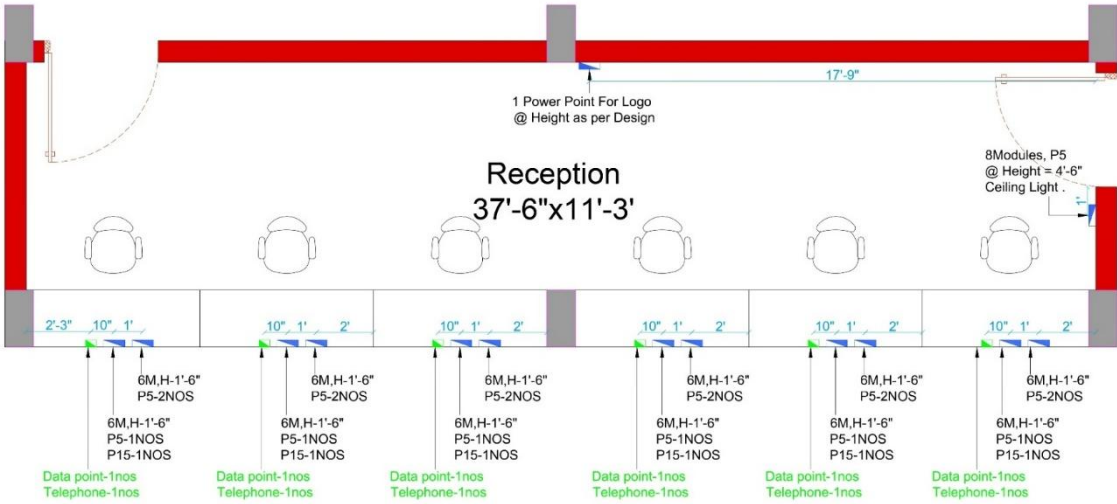


PLAN
FURNITURE LAYOUT PLAN



FLOOR PLAN

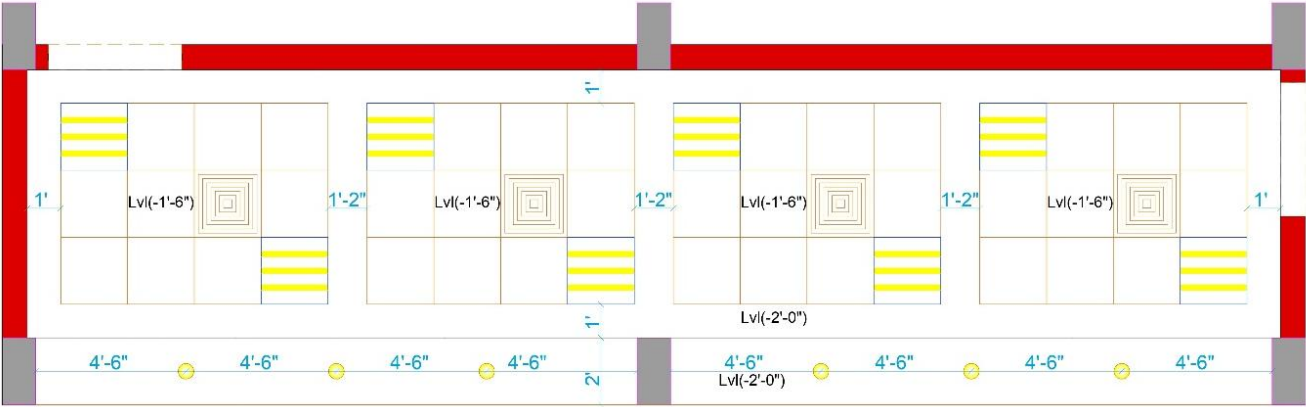
MATERIAL



ELECTRICAL PLAN



RECEPTION



CEILING PLAN

MATERIAL



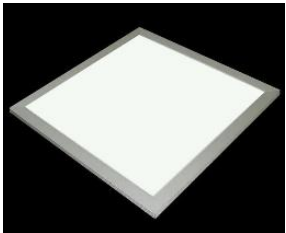
Metal Grid Ceiling



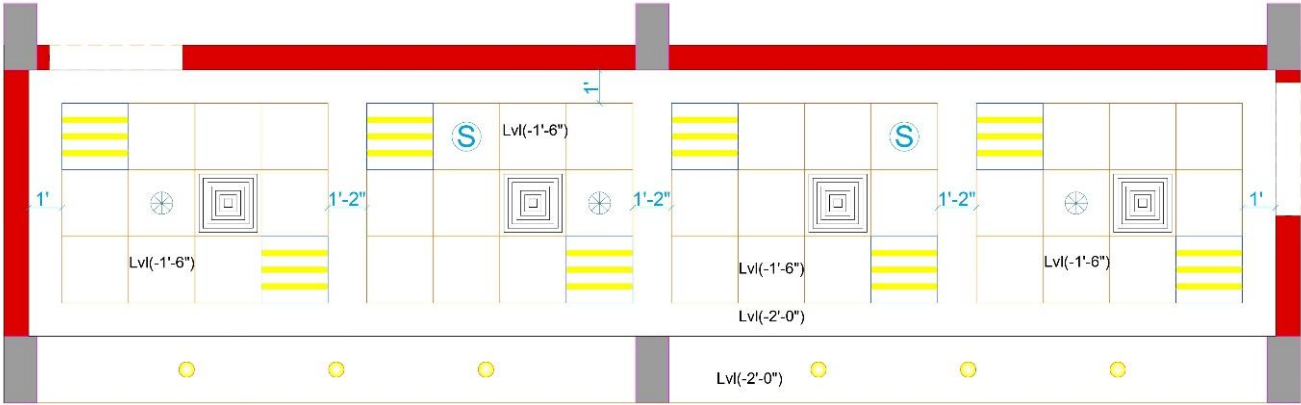
Cob Light



A.C Panel



Panel Light



FIRE SERVICES PLAN
RECEPTION

MATERIAL






Smoke Detector



Fire Sprinkler

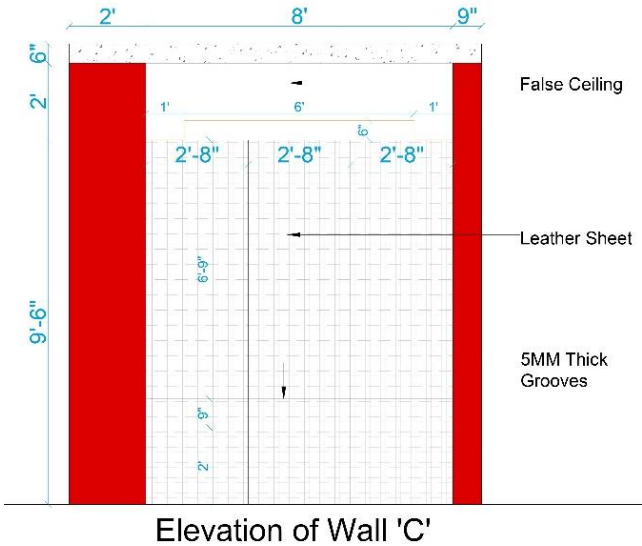
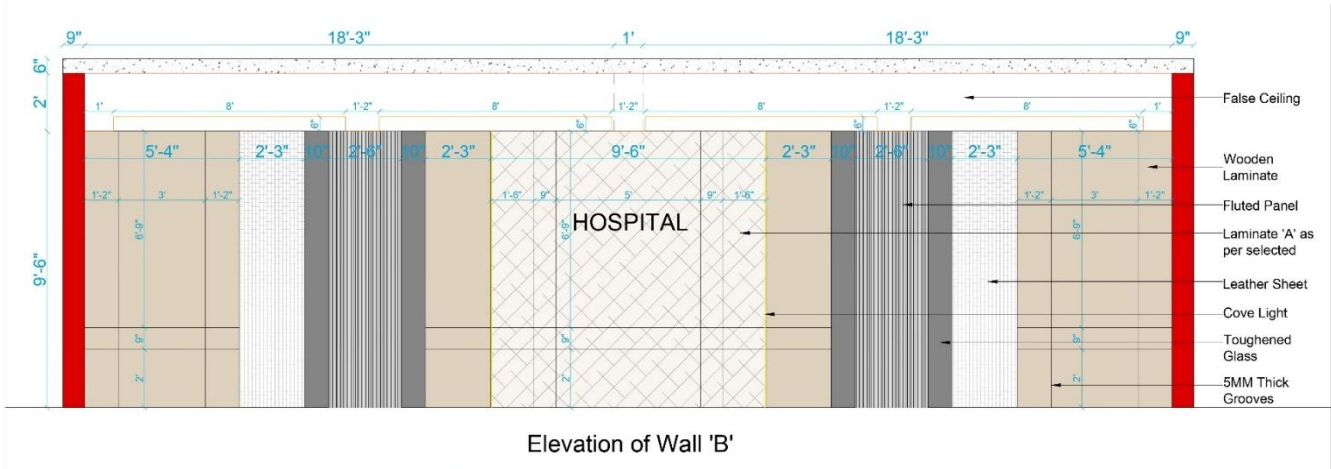
Figure 1 is a schematic diagram of the experimental setup, showing a long, narrow platform with various sections and dimensions. The total length is 38'-8". The width is 2". The platform is divided into sections labeled 'Working Platform', 'Corian-A', and 'Corian-B'. Key dimensions include segments of 7', 1'-6", 1', and 4'. A vertical line labeled 'A-A' indicates a cross-section point.



THESIS BY : SANSKRITI BANIYA (1210107016)



RECEPTION

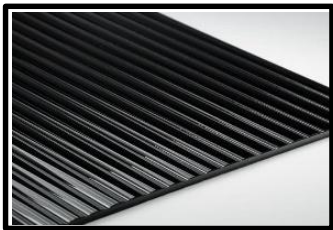


2D WALL ELEVATIONS

MATERIAL



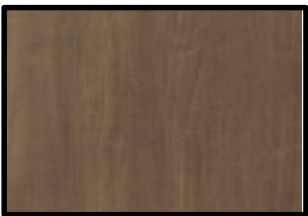
Leather Sheet



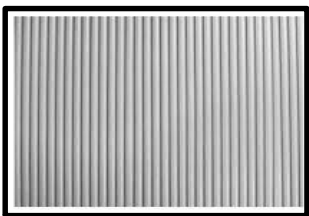
Toughened Glass



Marble Texture Laminate



Wooden Texture Laminate



Fluted Panel

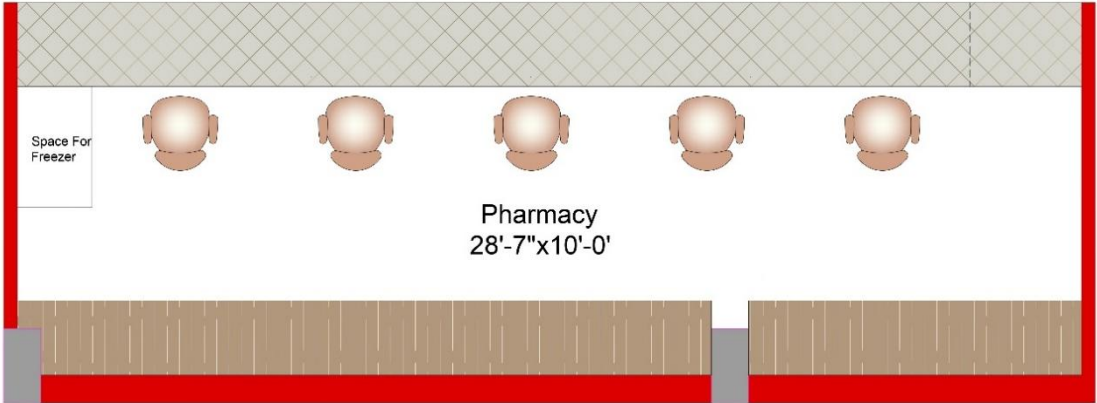


RECEPTION (3D VIEWS)

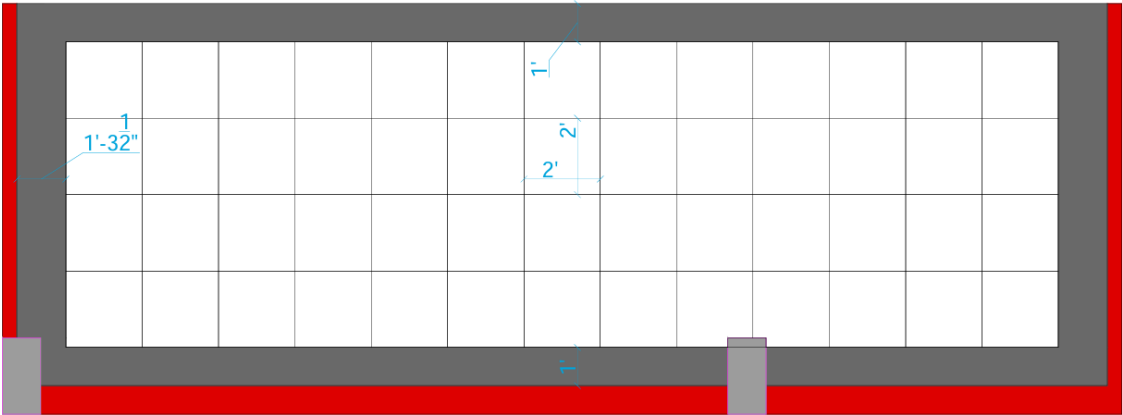




PHARMACY AREA



FURNITURE LAYOUT PLAN PLAN



FLOOR PLAN

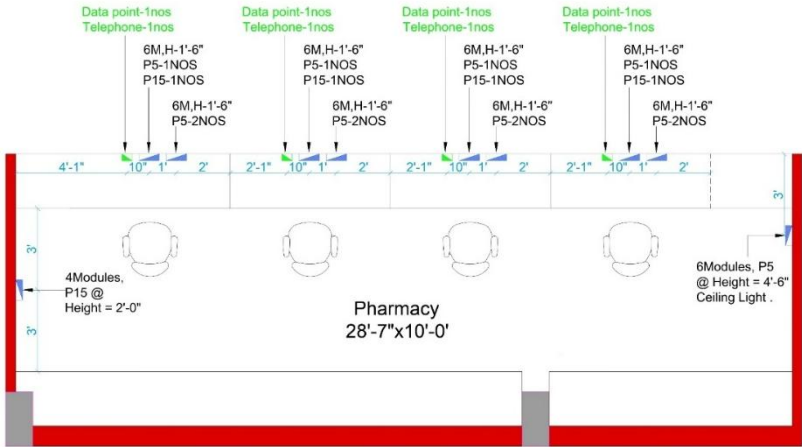
MATERIAL



Vitrified Tiles



Vitrified Tile



ELECTRICAL PLAN

Technical drawing of a wall section showing materials and dimensions. The wall is 12' high and 24' wide. It consists of a False Ceiling (18'-72"), Wooden Laminate (1'-62"), Glass (1'-62"), and Wooden Laminate (1'-62"). The wall is divided into three vertical sections: a left section (4'-32"), a middle section (6'-1"), and a right section (6'-1"). The wall is also divided into three horizontal sections: a top section (2'-32"), a middle section (4'-6"), and a bottom section (2'-2"). The wall is constructed from various materials including False Ceiling, Wooden Laminate, Glass, and Skirting.

The diagram illustrates the internal structure of a partition wall. It features a central vertical section labeled 'A-A'' at the top and bottom. The wall is composed of several horizontal layers. The top layer is labeled '1' and has a thickness of '1'-3"'. Below this is a layer labeled '1' with a thickness of '1'-3"'. The main body of the wall is labeled '1' and has a thickness of '4'-6"'. The bottom layer is labeled '1' and has a thickness of '1'-3"'. The wall is supported by a base labeled '1' with a thickness of '4"'. The diagram also shows a vertical section labeled 'A-A'' on the right side, indicating the wall's connection to the floor and ceiling.

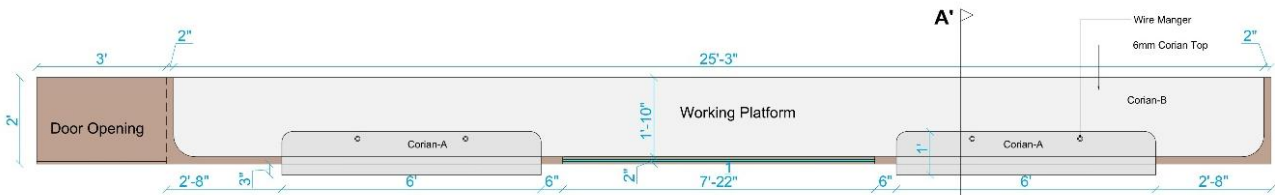
2D WALL ELEVATIONS (RACKS)



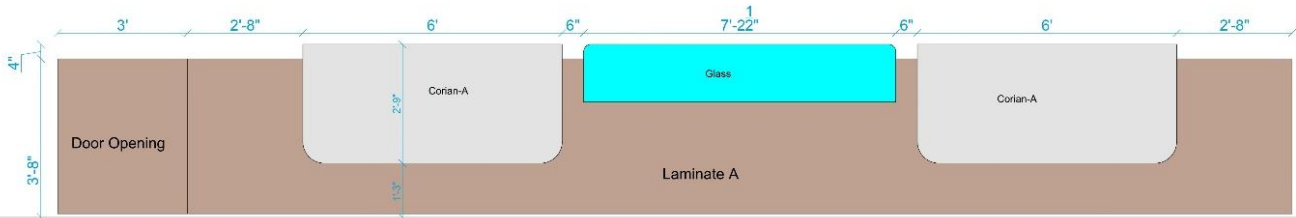
THESIS BY : SANSKRITI BANIIYA (1210107016)



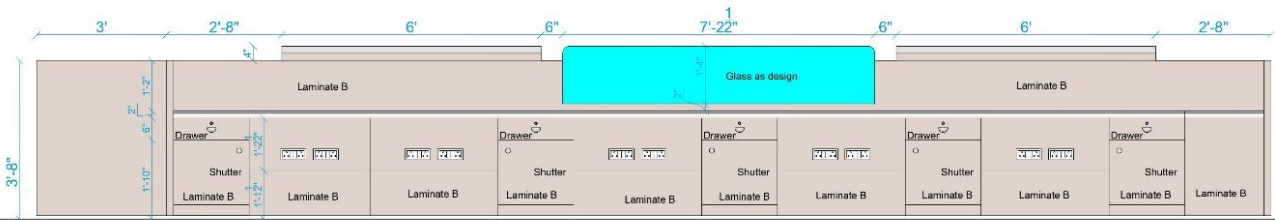
PHARMACY AREA



Plan



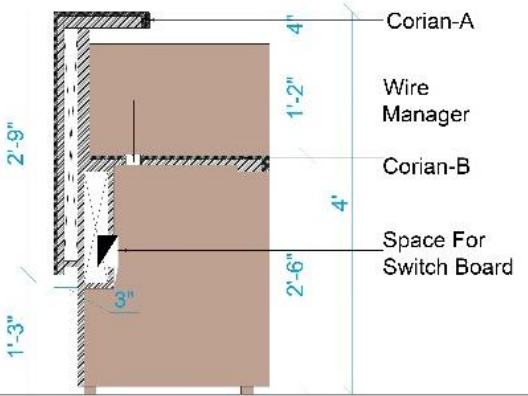
Front Side Elevation



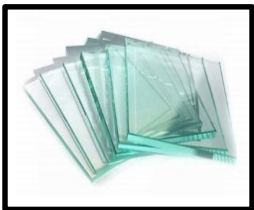
Back Side Elevation

PHARMACY COUNTER DETAIL

MATERIAL



Section-AA'



Glass



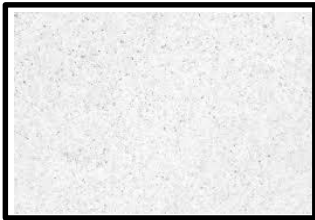
Wooden Texture Laminate - B



Wooden Texture Laminate - A



Corian-A



Corian-B

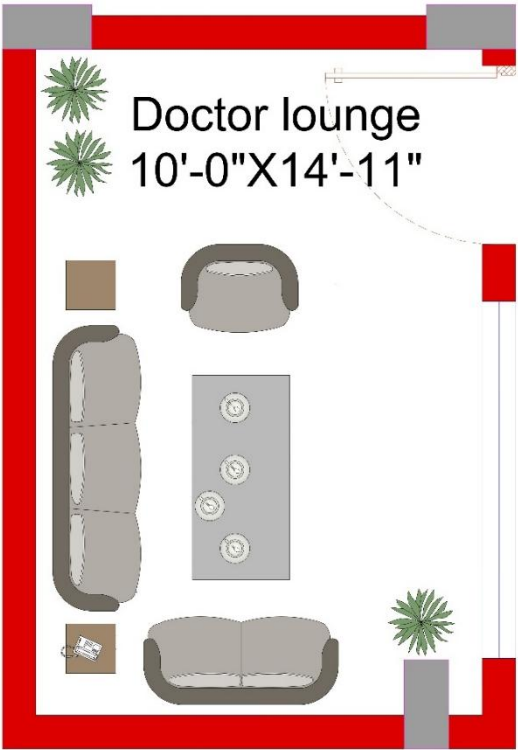


PHARMACY (3D VIEWS)



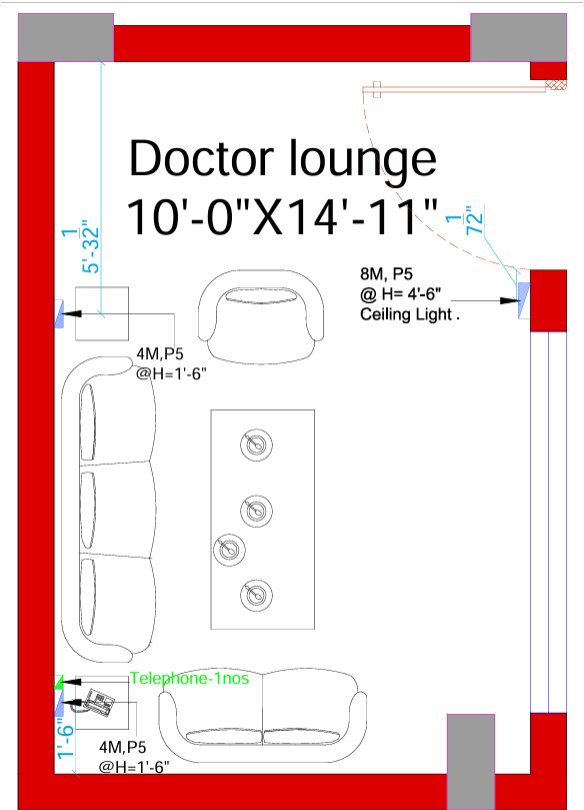


DOCTOR'S LOUNGE



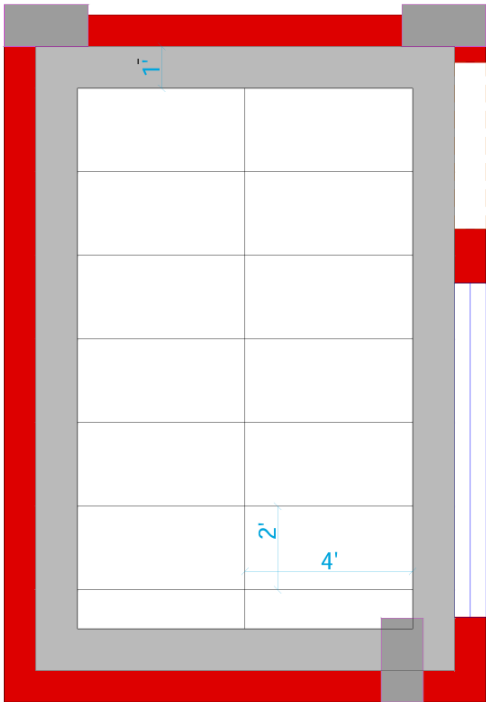
PLAN

FURNITURE LAYOUT PLAN



PLAN

ELECTRICAL PLAN



FLOOR PLAN

MATERIAL



Vitrified Tiles



Vitrified Tile



DOCTOR'S LOUNGE

MATERIAL



COB Light



POP Murga Jali



4 Way Cassette A.C

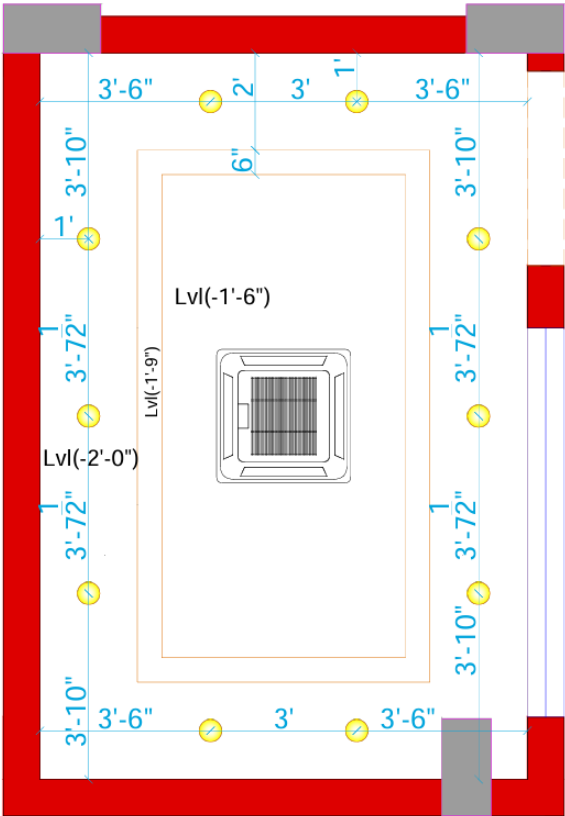
MATERIAL



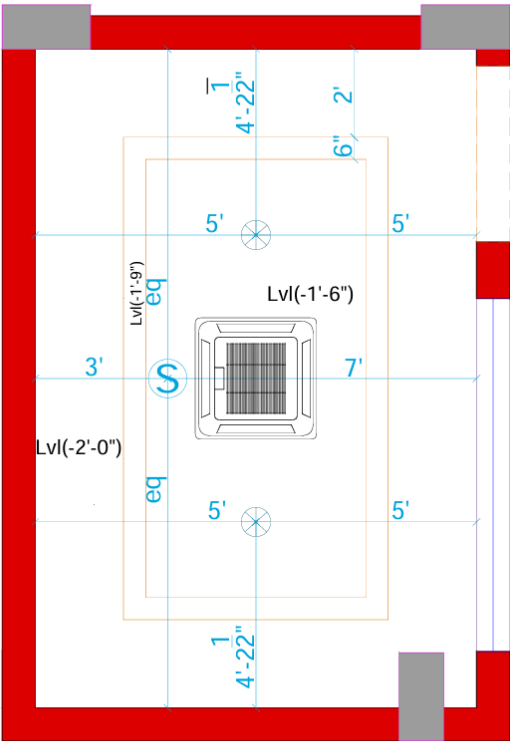
Smoke Detector



Sprinkler



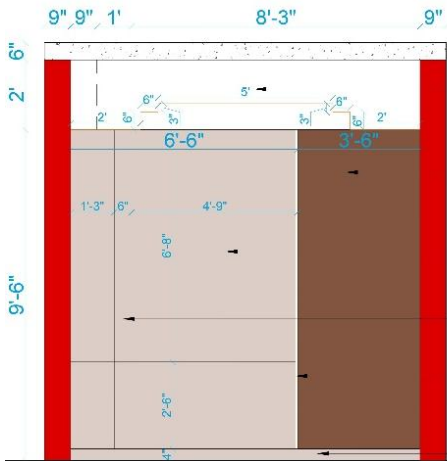
CEILING PLAN



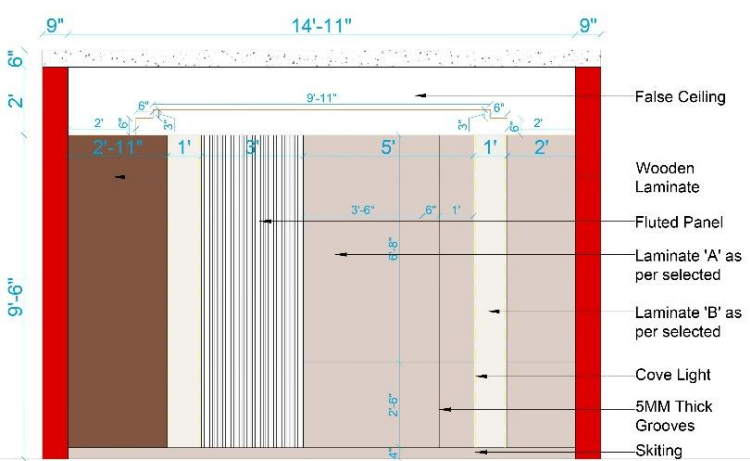
FIRE SERVICES PLAN



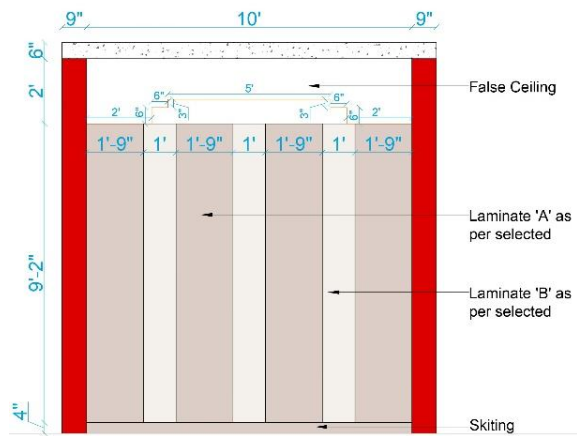
DOCTOR'S LOUNGE



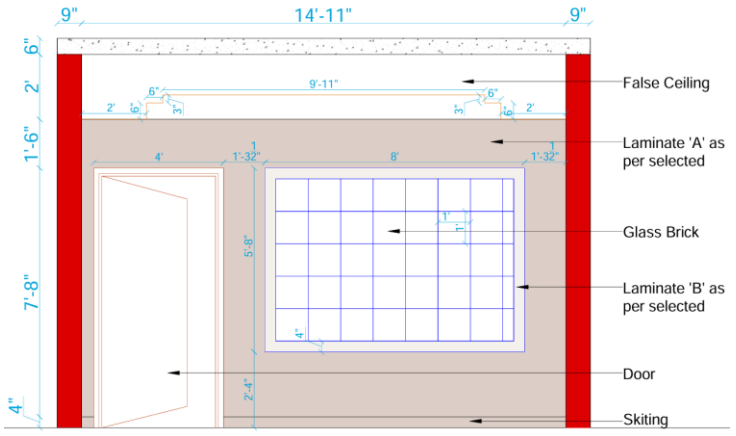
Elevation of Wall 'A'



Elevation of Wall 'B'



Elevation of Wall 'C'



Elevation of Wall 'D'

2D WALL ELEVATIONS

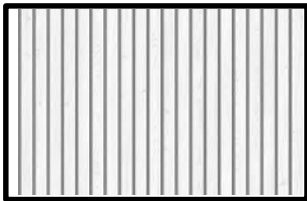
MATERIAL



Wooden Texture Laminate



Laminate-B



Fluted Panel



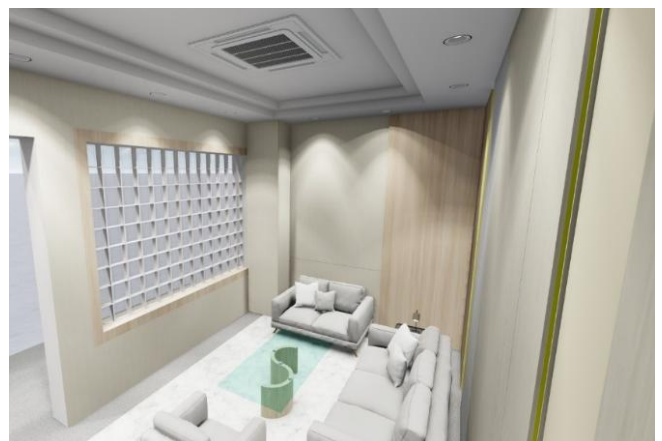
Laminate-A



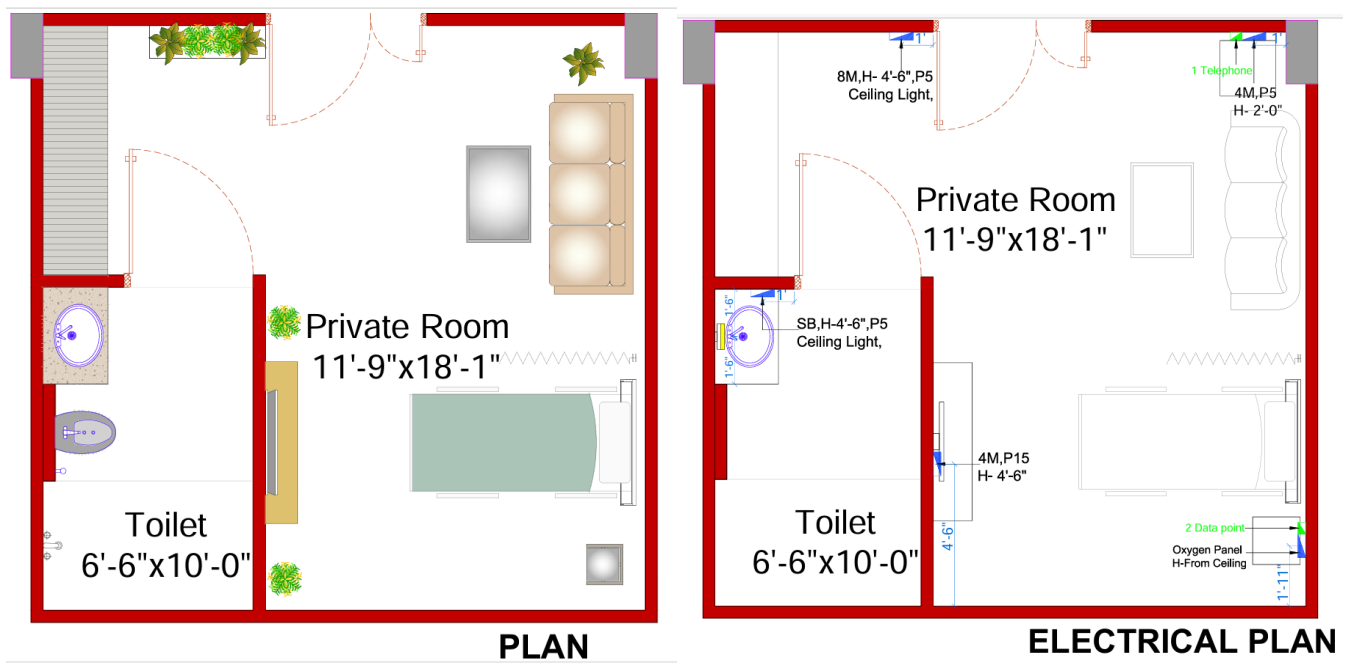
Glass Brick



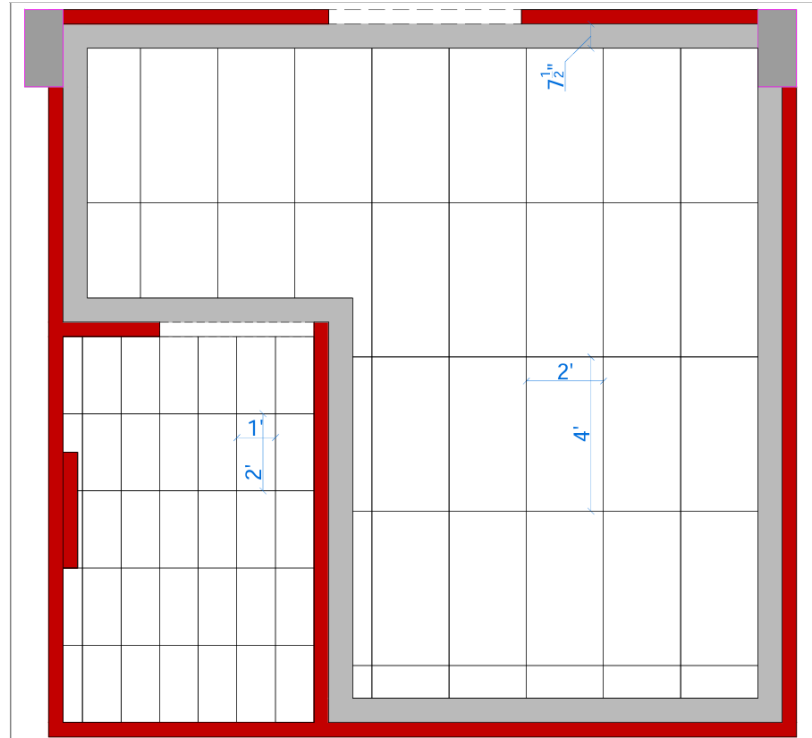
DOCTOR'S LOUNGE (3D VIEWS)



PRIVATE ROOM



FURNITURE LAYOUT PLAN



FLOOR PLAN

MATERIAL



Vitrified Tiles



Vitrified Tile

The floor plan shows the second floor with the following details:

- Rooms and Dimensions:**
 - Top Left: 2' x 2'-5" (Lvl(-2'-6"))
 - Top Right: 3'-11 1/2" x 3'-10 1/2" (Lvl(-1'-6"))
 - Bottom Left: 1'-9" x 3' (Lvl(-2'-0"))
 - Bottom Right: 3'-11 1/2" x 3'-10 1/2" (Lvl(-1'-0"))
- Level Markers:**
 - Lvl(-2'-6")
 - Lvl(-1'-6")
 - Lvl(-2'-0")
 - Lvl(-1'-0")
- Other Features:**
 - Red walls and columns are shown on the left and bottom edges.
 - Orange lines indicate room boundaries and level markers.
 - Dimensions are provided in feet and inches, including fractions (e.g., 1/2, 1/4, 3/4).



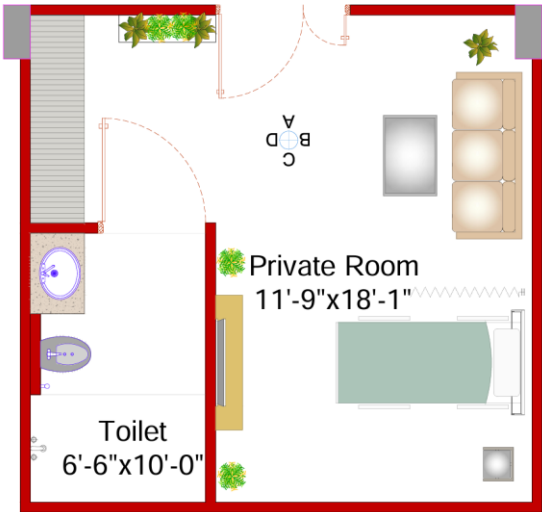
A close-up photograph of a fire sprinkler head. It features a glass bulb with a red liquid inside, mounted on a metal base. A metal deflector is attached to the bottom of the bulb. The entire assembly is mounted on a circular metal plate.

The floor plan shows two levels with the following details:

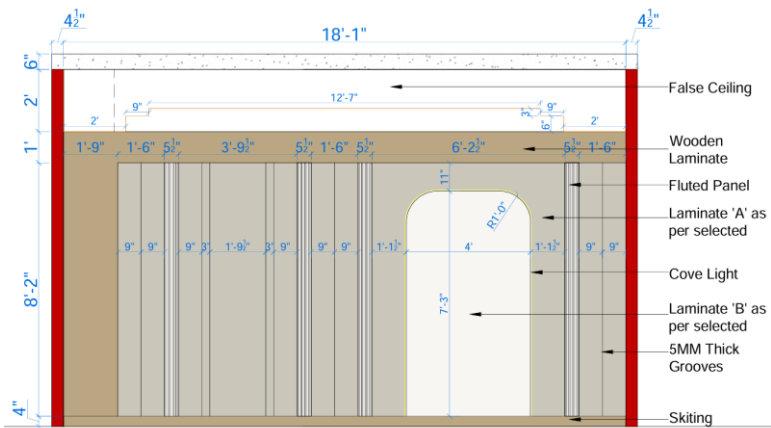
- Lvl(-2'-0"):**
 - Dimensions: 6'-0" (width), 3'-3" (length).
 - Room: 201 (indicated by a square with an 'X').
 - Equipment: eq-1 (indicated by a circle with a 'C').
 - Other features: A circle with a crosshair is located at the top center.
- Lvl(-1'-0"):**
 - Dimensions: 9'-0" (width), 4'-6" (length).
 - Room: 202 (indicated by a circle with a crosshair).
 - Equipment: eq-1 (indicated by a circle with a 'C').
 - Other features: A circle with a crosshair is located at the bottom center.



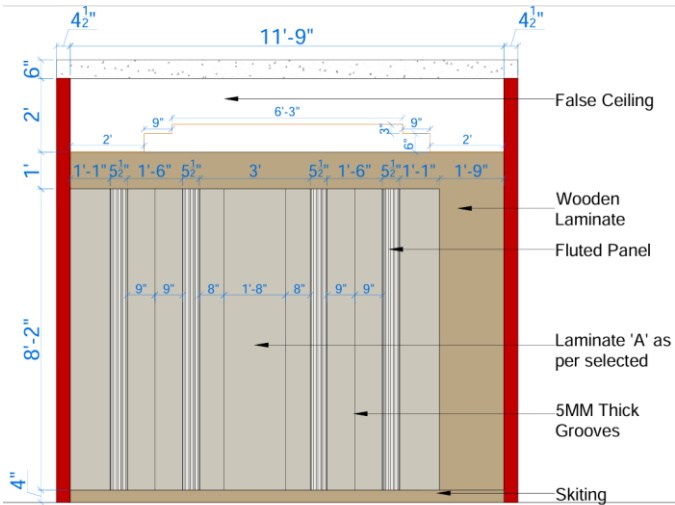
PRIVATE ROOM



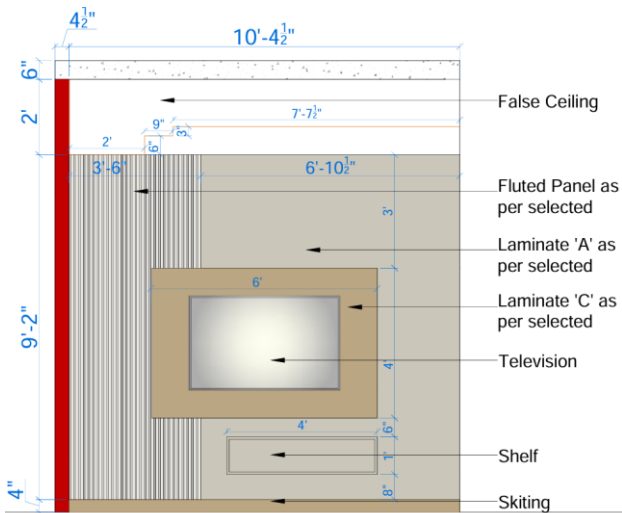
PLAN



Elevation of Wall 'B'



Elevation of Wall 'C'



Elevation of Wall 'D'

2D WALL ELEVATIONS

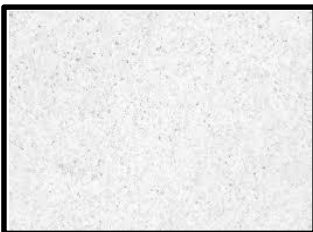
MATERIAL



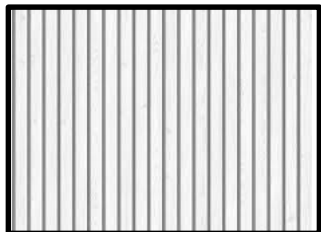
Wooden Laminate



Laminate-A



Laminate-B



Fluted Panel



PRIVATE ROOM (3D VIEWS)

