

THESIS REPORT ON
“GOVERNMENT MEDICAL COLLEGE, AMARPUR, U.P.”

**A THESIS SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENT FOR THE DEGREE OF:**

BACHELOR OF ARCHITECTURE
BY

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1150101002

THESIS GUIDE

PROF. SANGEETA SHARMA

AR. NAVEEN SINGH

SESSION

2019-20

TO THE

SCHOOL OF ARCHITECTURE AND PLANNING

BABU BANARASI DAS UNIVERSITY

LUCKNOW.

**SCHOOL OF ARCHITECTURE AND PLANNING
BABU BANARASI DAS UNIVERSITY, LUCKNOW (U.P.).**

CERTIFICATE

I hereby recommend that the thesis entitled“GOVERNMENT MEDICAL COLLEGE, AMARPUR“ under the supervision of Prof. Sangeeta sharma, is the bonafide work of the student and can be accepted as partial fulfillment of the requirement for the degree of Bachelor’s degree in architecture, school of Architecture and Planning, BBDU, Lucknow.

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Recommendation Accepted
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Certificate of thesis submission for evaluation

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6. **Thesis preparation guide was referred to preparing the thesis.** **Yes/No**
7. **Specifications regarding thesis format have been closely followed.** **Yes/No**
8. **The content of the thesis have been organized based on the guidelines.** **Yes/No**
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12. **Submitted 3 hard bound copies plus one CD** **Yes/No**

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(Signature of the Candidate)

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Roll No.:

ACKNOWLEDGEMENT

I would like to take this opportunity to thank my beloved thesis guide **Prof. Sangeeta sharma**, who have always helped me and have give me brilliant ideas. I highly appreciate all the help they have given to me. Their concerns about the many problems involved in acquiring land for **MEDICAL COLLEGE** or for the expansion of existing ones have encouraged me to conduct this study as a means of presenting more explicitly the difficulties of **MEDICAL COLLEGE** in metropolitan areas.

I would like to thank the Dean **Prof. Mohit Kumar Aggarwal** and thesis coordinator **Ar. Urvashi tiwari** without whose help and co-ordination this thesis may not have been possible. I also want to thank all my faculty members for the guidance that helped successfully integrating the research aspects of the project throughout this thesis.

I am grateful to my family for standing with me throughout and finally my heartiest thanks to my friends: **Abhishek banerjee**, **Abhinav Upadhyay** and all my classmates who have been helpful throughout the five years of my graduation stage.

Aayush khare

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INTRODUCTION ..

INTRODUCTION TO THE TOPIC....

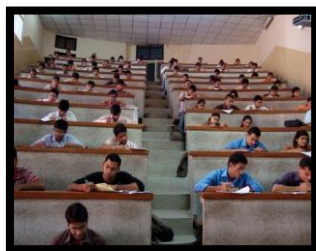
- Institution define an organization , establishment , foundation , society or the like devoted to the promotion of a particular cause a program
- An institution is any persistent structure or mechanism of social order governing the behavior of a set of individuals within a given community.
- Institutions are identified with a social purpose transcending individuals and intentions by mediating the rules that govern living behavior.
- Medical institute provide tertiary level health care to its citizens and for quality medical education to the students community.
- Having achieved laurels for establishing superior standards in providing civic amenities to the denizens of local area.
- Medical institute provide quality and this has culminated in to simmer as we see today

Medicine is one of the most sort out career and rewarding career for those interested in science and dealing with sick people. As we all know that there has been a lack of medical colleges in our country as compared to number of its applicants in the state of uttar pradesh with 18 mbbs medical colleges in the state with the intake capacity of 1700 students per year which is too small as compared to the students willing to study medicine , this new medical college will contribute its hand in helping more and more students to pursue the medical studies in the state.

As this site is proposed at lalitpur district. 100 admissions in medical college will serve peoples in a pretty good manner.

HISTORY

The year 1835 has a special bearing in the history of medical education in india. Two very prestigious and respected medical colleges of india, calcutta medical college, kolkata and madras medical college, chennai admitted students for the first time in 1835. The calcutta medical college was not only the first institute to teach modern medicine in india but also in asia. In mumbai, the first medical college was named after sir robert grant, then governor of mumbai and the college started functioning in 1845. Agra medical school was established in 1854 along side thompson hospital, this is today known as sarojini naidu medical college & hospital.



DEPARTMENTS IN MBBS

1. Human anatomy
2. Human physiology
3. Biochemistry
4. Pathology
5. Microbiology
6. Pharmacology
7. Forensic medicine including toxicology
8. Community medicine
9. Medicine
10. Paediatrics
11. Psychiatry
12. dermatology, venereology and leprosy
13. tuberculosis and respiratory diseases

AIMS AND OBJECTIVES

1. To boost the growth of medical students in the state.
2. To provide the world class medical facilities .
3. To provide students and patients with a green and healthy environment .
4. Additional attraction can be provided by nature walk and also by developing unique bio-diversity part so that pleasant environment with adequate space for walking and strolling.
5. Lalitpur district is in jhansi division in the indian state of uttar pradesh. The town of lalitpur is the district headquarters to developing its infrastructure and providing opportunities for out coming medical talents who can bring pride to our country in different medical researches etc.
6. To make the building self-sustainable as much as possible.
7. To make it eco-friendly.

REQUIREMENTS

- Academic block
- Administrative block
- Learning hospital
- Landscape areas
- Residential block



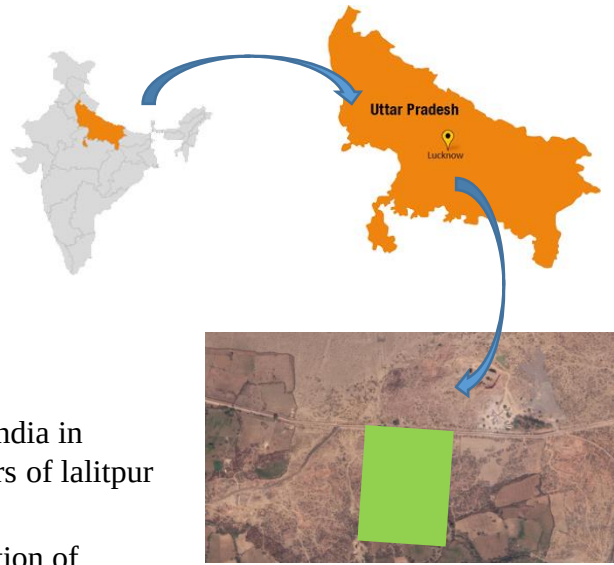
GENERAL HOSPITAL RELATIONSHIPS

Architectural scope

- To develop a circulation pattern which makes the whole experience enjoyable.
- Landscape should play an important role to enhance creativity and mental satisfaction of the people who will be part of the institute.
- Opportunity to deal with the different attitude of the different building meant for various purposes, keeping the harmony.

SITE ANALYSIS

- Site area : 23.16 ACRE (93760sq.M)
- Location : Amarpur road NH44, lalitpur Uttar pradesh
- Longitude :24°45'35"n 79°29'1.5"
- Land type: flat surface land with no contours
- Access road : Is located in amarpur, lalitpur at jhansi-sagar highway NH44
- Site context : Located in the institutional area giving a calm and silent enviroment



Lalitpur is a city and a municipal board in lalitpur district, india in the indian state of uttar pradesh. It is also district headquarters of lalitpur district. The city is part of bundelkhand region.

As per provisional data of 2011 census, lalitpur had a population of 133,305, out of which males were 69,529 and females were 54,062. The literacy rate is 82.39%

WAY TO REACH...

- Lalitpur airstrip 14km
- Khajuraha airport 150km
- Lalitpur junction 14km
- Lalitpur bus station 6.1km



Red soil is found in amarpur. It is a group of soil that develop in a warm, temperate, moist climate under deciduous or mixed forests and that have thin organic and organic-mineral layers overlying a yellowish-brown leached layer resting on an illuvial red layer. Red soils generally derived from crystalline rock.

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ROAD TOWARDS AMARPUR



PROPOSED SITE



PROPOSED SITE



3M WIDE ROAD



VIEW FROM SITE



RED SOIL

ORIENTATION OF SITE:

- ❑ There is a road in front
- There are vacant lands beside the the site.

TRANSPORTATION ON SITE:

- ❑ The site is well connected with adequate services like
- ❑ NH44 Jhansi sagar hinghway

SLOPE ANALYSIS:

- ❑ The Project area possesses fairy plain terrain

EROSION/ SUBSIDENCE:

- ❑ Proper greening & paving of area will not cause any soil erosion problem and subsidence.

SEISMICITY:

- ❑ The area under study falls in zone – IV according to the Indian standards seismic zoning map.suitable seismic coefficients in horizontal and vertical directions respectively have to be adopted while designing the structure.

BYE LAWS:

- ❑ Permissible F.A.R. - 3
- ❑ Ground coverage - 30%
- ❑ Max. height - 16M
- ❑ Front set back - 12M
- ❑ Rear set back - 12M
- ❑ Side set back - 12m

SITE ECOLOGY:

- ❑ There are no wild life sanctuaries/ park within radius of the project.

site. Neither any rare or endangered species have been recorded in the project influence area. There is no notified natural forests area in the North West District.

- ❑ Other than the large trees and some shrubs on site.

- ❑ The ecology of the study area is not very rich in diversity.

No endangered or endemic species(as notified in IUCN red Data Book) are located within the study area.

- ❑ No migratory birds breed in the study area. No Tiger reserve/elephant reserve/turtle breeding place/ is located

with in 15 km radius of the site.

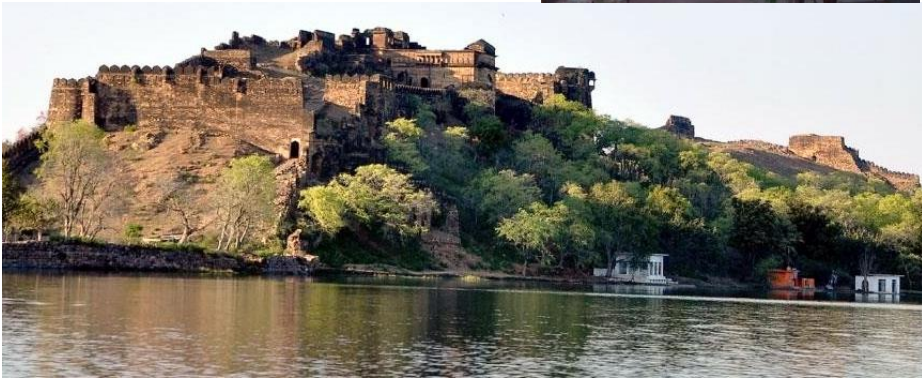
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- Site context : Located in the institutional area giving a calm and silent enviroment

- ❑ **Parking** -1 Parking space for 30sq.m of

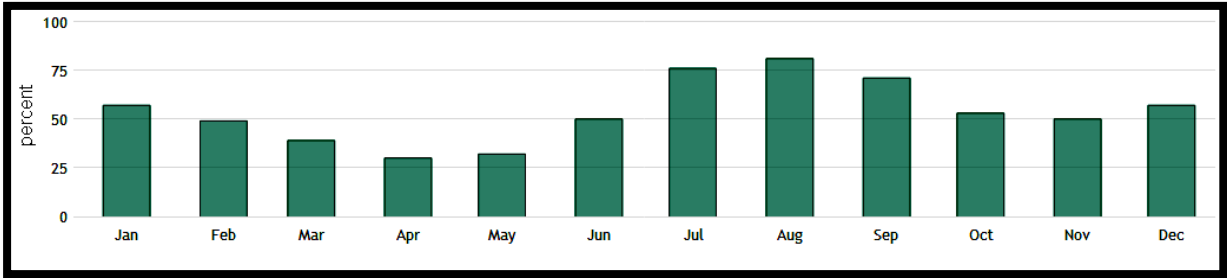
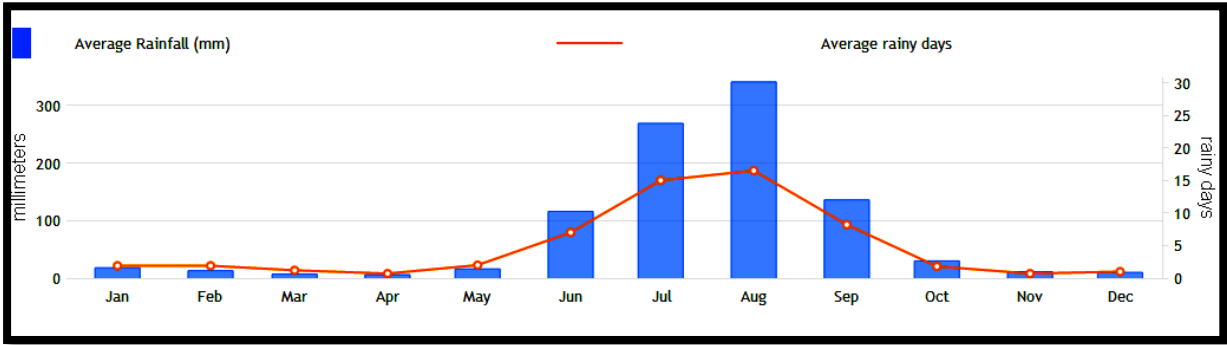
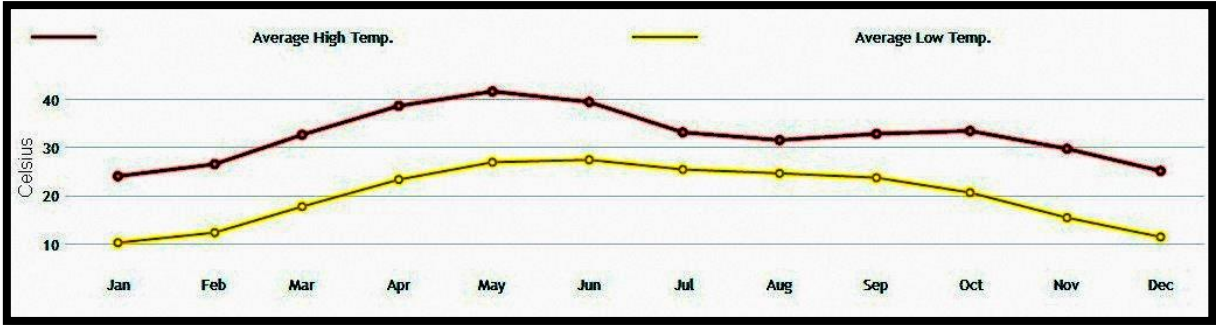
Permissible F.A.R

- ❑ **Landscape** 1 Tree per 100sq.m of open space out of which 50% to be in category of evergreen tree.Minimum open space to be kept forlandscaping is 50% of open area.

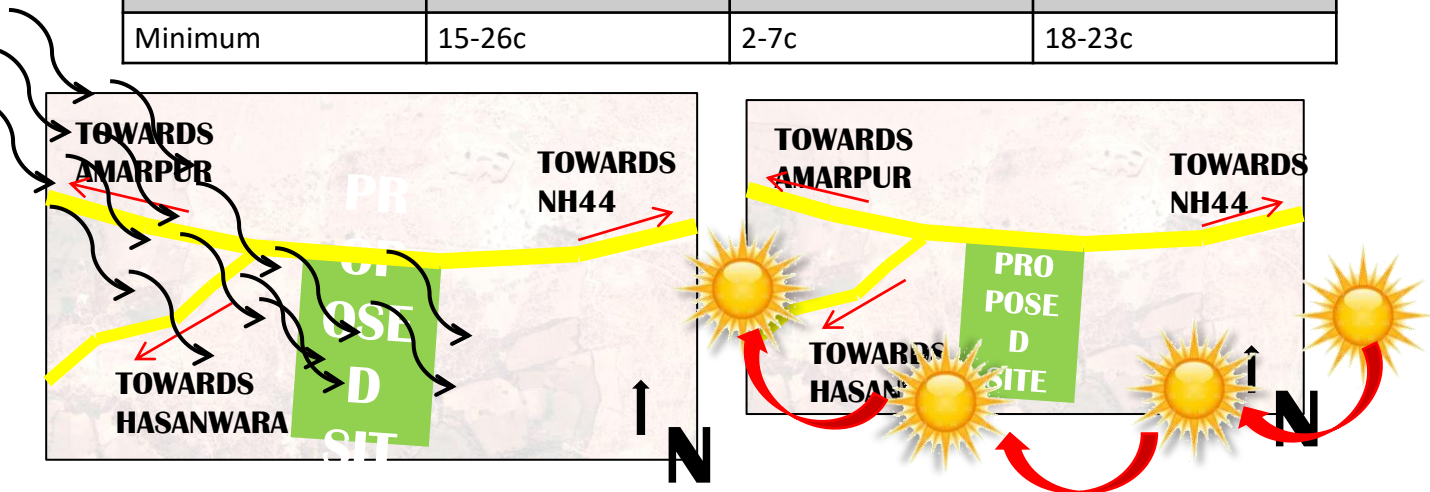


CLIMATE. . .

- ❑ The region has a semi- arid climate with extreme seasons ,Hot summers, and heavy rainfall in the monsoon months and very cold winters. outdoor design
- The warm season last from 21 March to 15 June with an average daily high temperature above 39°c(102°F).
- ❑ CLIMATE OF AMARPUR IS COMPOSITE, WITH COLD WINTER AND HOT SUMMER.
- ❑ HOT-DRY(APRIL TO JUNE)
- ❑ WARM HUMID (JUNE TO SEPTEMBER)
- ❑ COLD AND DRY (NOVEMBER TO FEBRUARY)



	SUMMERS	WINTERS	MONSOONS
Maximum	42-48c	23-33c	32-42c
Minimum	15-26c	2-7c	18-23c



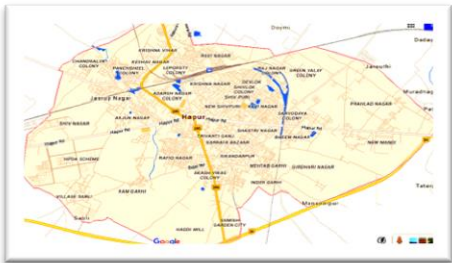
CASE STUDY-1

RAMA MEDICAL COLLEGE HAPUR

Rama university is spread across more than 150 acres of lush green environment, serene surroundings and all the necessary facilities available within campus, the university promises to be a perfect place for learning. Rama medical college is established in the ncr campus of the university, with a annual intake capacity of 150 mbbs students and with a learning hospital of 650 bed capacity providing all the world class medical facilities to both students and nearby neighborhoods.

Student intake -rama college of medical sciences has a annual student intake of 150 students for mbbs course.

Architect – globe architects , hapur
Location rama medical college is located at nh-24 delhi hapur highway, pilakhua, dist.: Hapur (uttar pradesh)



HAPUR DISTRICT MAP



RAMA MEDICAL COLLEGE ON NH-24 HAPUR

SITE ANALYSIS

- SITE AREA 6,75,000 SQM
- BUILT UP AREA 2,36,250 SQM
- GROUND COVERAGE 35%
- STRUCTURE TREBEATED STRUCTURE SYSTEM
- PARKING PROVISION FOR ON SITE SURFACE AND BASEMENT PARKING



ENTRANCE LOBBY



MEDICAL COLLEGE, BUILDING

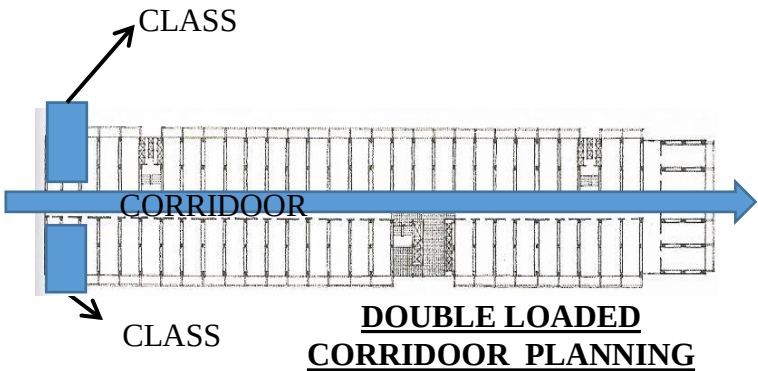


DISECTION HALL

CONCEPT

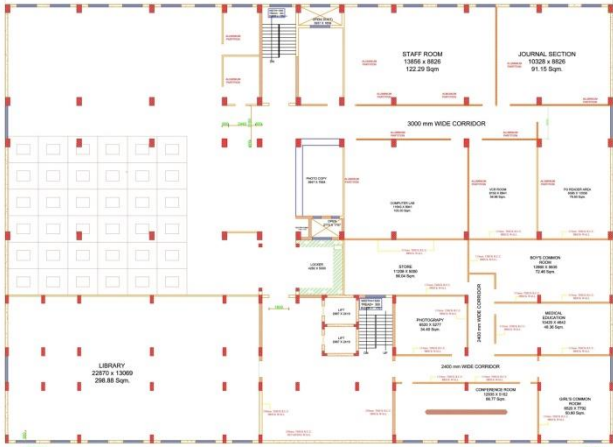
The main objective for designing this campus was of creating of space amidst the city without deviating from imparting it a peaceful and calm environment free from the disturbances and fuss from the city . the double entrance in the campus has been provided for the hassle free movement,. The flow of spaces between different blocks and the indoor and outdoor spaces has a sense of ease which entitles easy, convenient and confusion less movement to the individuals in the premises.

There is preferably double connectivity between different zones of the campus enabling the hassle free movement . the campus has lots of open lush green space having shrubs, plants, grass, and a small water body. The campus has alluring greenery and beautiful landscaping that creates a pleasant feel and gives the healthy environment to its residents.



The planning of the basement is done on the concept of double loaded corridor. This concept is very ideal for planning the institutional buildings as the single corridor acts as the link . in the basement central library with capacity of 5500 books has been designed very intelligently along with it also consists of the following :-

- ☐ central library
- ☐ Locker room
- ☐ Photocopy / binding room
- ☐ Store room
- ☐ Conference room
- ☐ Central photographic lab
- ☐ Computer lab
- ☐ Audio visual room
- ☐ Staff room
- ☐ Journal section
- ☐ P.G reading section
- ☐ Boys common room
- ☐ Girls common room
- ☐ Medical education room
- ☐ Pathology demonstration room
- ☐ Microbiology demonstration room
- ☐ Microbiology department library
- ☐ Preperation rooms
- ☐ Pathology department library



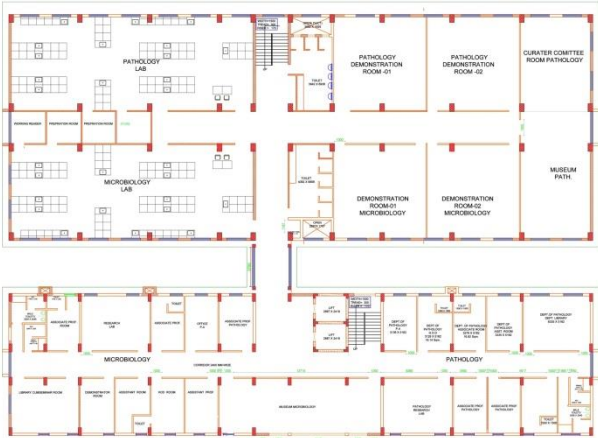
BASEMENT FLOOR PLAN OF MEDICAL COLLEGE



GROUND FLOOR PLAN OF MEDICAL COLLEGE



FIRST FLOOR PLAN OF MEDICAL COLLEGE

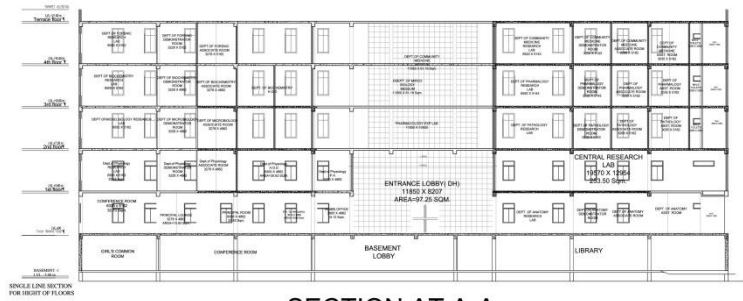


SECOND FLOOR PLAN OF MEDICAL COLLEGE



SECTION AT- B - B

- ☐ Lecture theatres
- ☐ H.O.D room
- ☐ Associate professors cabins
- ☐ Museum
- ☐ Girls common room
- ☐ Dept. Of community medicine demonstration room
- ☐ Dept. Of forensic medicine demonstration room
- ☐ Dept. Of forensic medicine library
- ☐ Preparation rooms
- ☐ Community medicine and forensic medicine lab
- ☐ pharmacy lab
- ☐ H.O.D room
- ☐ Associate professors cabins
- ☐ Biochemistry lab
- ☐ Boys common room
- ☐ Pharmacology demonstration room
- ☐ Biochemistry demonstration room
- ☐ Biochemistry department library
- ☐ Preparation rooms
- ☐ Pharmacology department library



SECTION AT A-A

LEARNING HOSPITAL

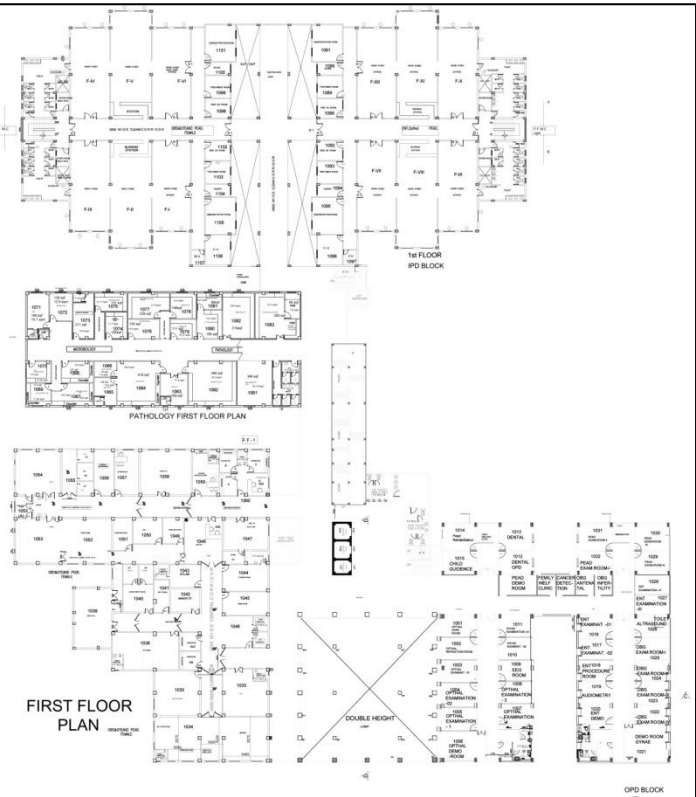


1. Total number of teaching beds - 650

2. Total number of beds in icu's – 42

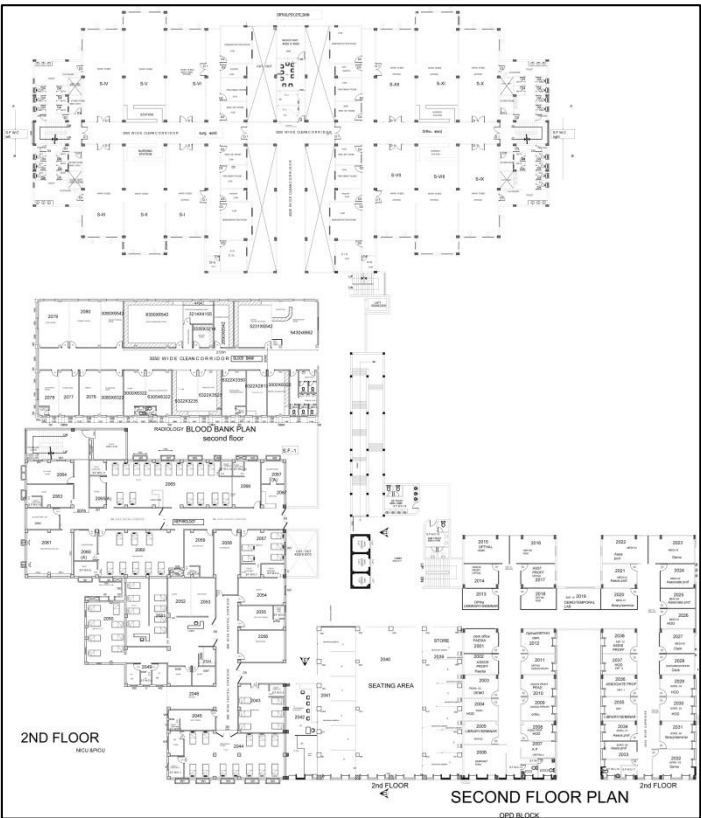
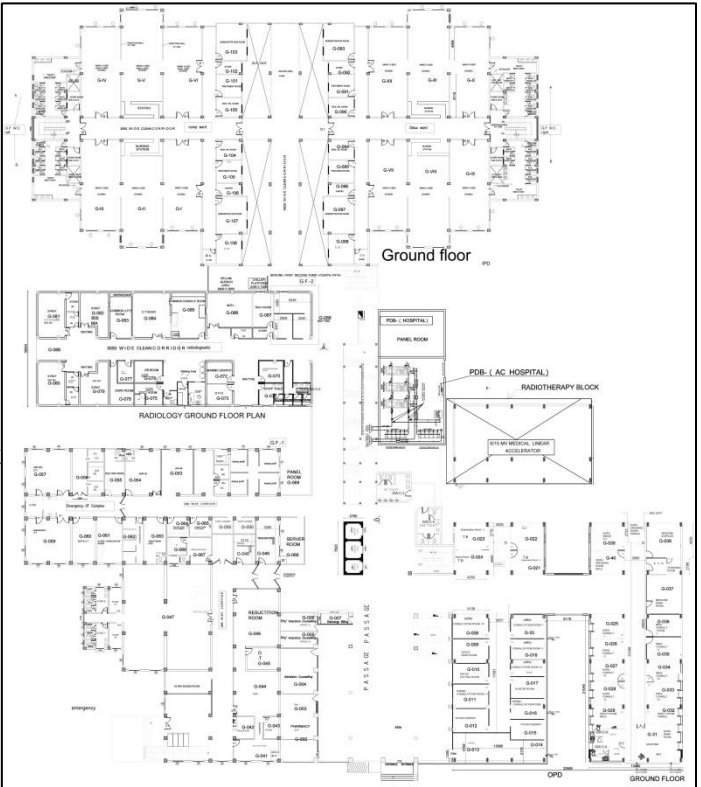
3. Other hospital beds – 107

4. No. Of operation theaters – 10
- A hospital with 650 beds.
 - State-of-the-art, multi-specialty, tertiary care.
 - Hospital providing 7-star facilities hospital is broken into two blocks of different heights connected by an atrium.
 - Estimated to care for the needs of almost 3 lakh people with its outpatient department and 50,000 patients through its inpatient facility annually



Distribution of Teaching beds in various departments is as under :

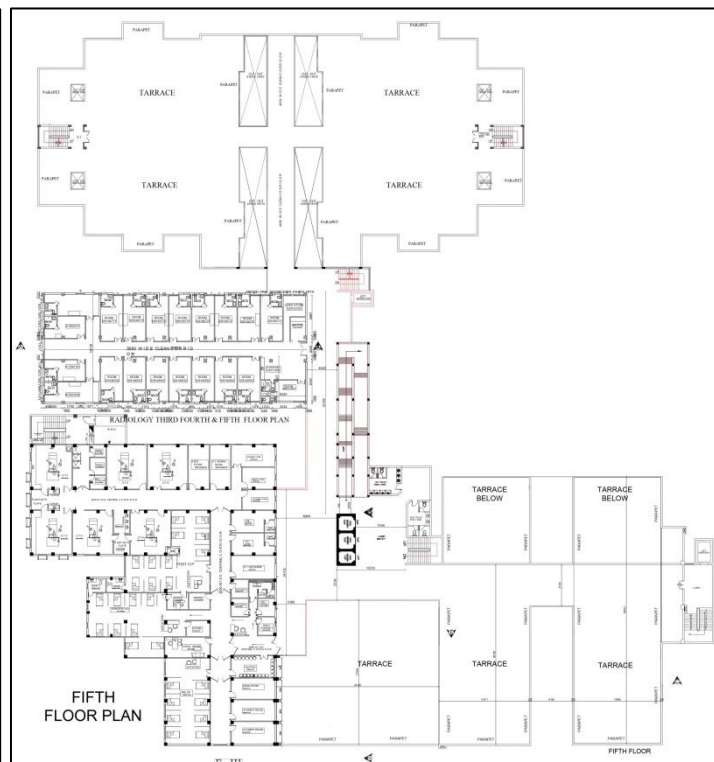
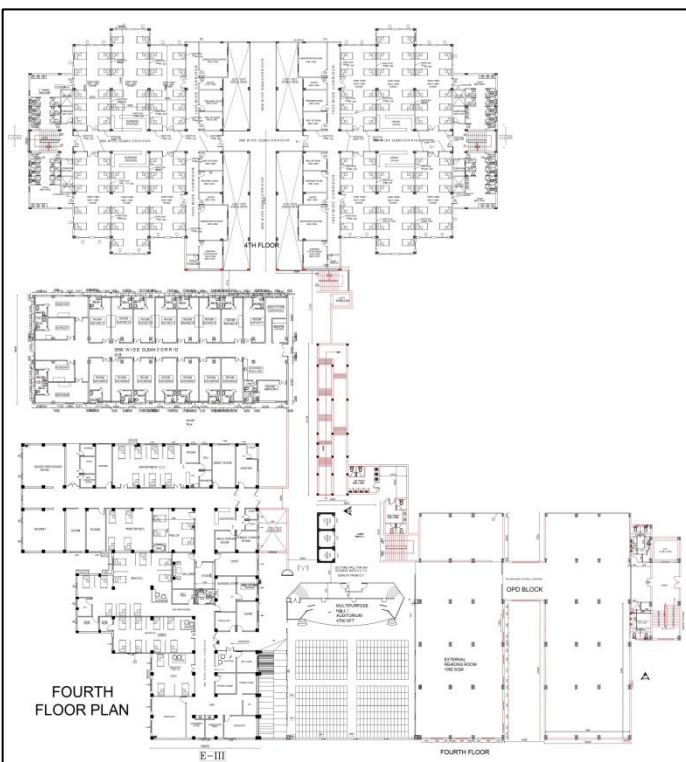
Department	Unit Nos.	Beds Required	Beds Available		
			Male	Female	Total
Gen. Medicine	5	150	75	75	150
Pediatrics	3	90	45	45	90
TB & Respiratory Medicine	1	20	10	10	20
Psychiatry	1	15	8	7	15
Dermatology	1	15	8	7	15
Gen. Surgery	5	150	75	75	150
Orthopedics	3	90	45	45	90
Ophthalmology	1	15	8	7	15
ENT	1	15	8	7	15
OB & GYN	3	90	-	90	90
Total	24	650	282	368	650



Intensive Care: Following intensive areas are available –

S. No	Type	Beds (Available)
01	ICCU	08
02	MICU	11
03	SICU	05
04	BURN UNIT	02
05	RICU	05
06	NICU	06
07	PICU	05
TOTAL		42

- **Inferences:-**
- Adequate waiting areas in all departments.
- Atrium houses a large number of visitors and has different Accesses to different departments thereby restricted the flow of visitors to this areas only.
- Segregation of visitor, staff and service entry.
- Separate emergency entry, which has a direct and unhindered access.
- No separate service lift for food, linen, staff, visitors and patient which will help to avoid congestion.
- Flexibility for the future so that any floor could be converted from wards to rooms and vise-versa.
- Toilets are designed according to the needs of patient.
- Emergency evacuation is catered since there is no provision of a ramp.
- Lack of separate fire escapes in fire blocks.
- Plenty of natural light and ventilation in lower floors.
- No dirt disposal corridor in the o.T. Complex..



F. RADIOLOGICAL FACILITIES

S No.	Equipment	Available no.
01	Mobile X Ray 60 mA :	03
	100 mA :	03
02	Static X Ray	02
	300 mA :	02
	600 mA ..	02
	800 mA :IITV & Fluroscopy	
03	USG	03
04	CT	01
05	MRI	01



CIRCULATION

Horizontal circulation :- 3m wide corridor has been provided for the internal circulation in the building.

Vertical circulation :- two stair case 2m wide and two lifts with capacity of 12 persons each have been provided.



ELECTRICITY

- A power sub station has been set up site with the capacity of 3000 kw
- Provision for electricity generators has been also made for emergency use.

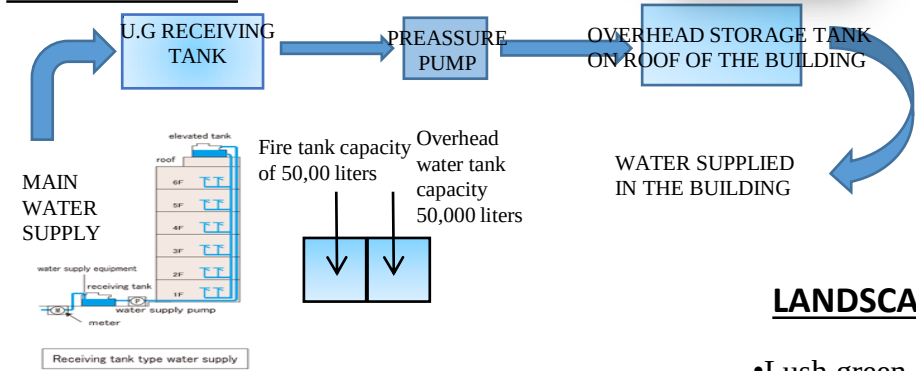


STRUCTURE

Simple trabeated structure system composing the grid of columns and beams have been used in the building.



WATER SUPPLY



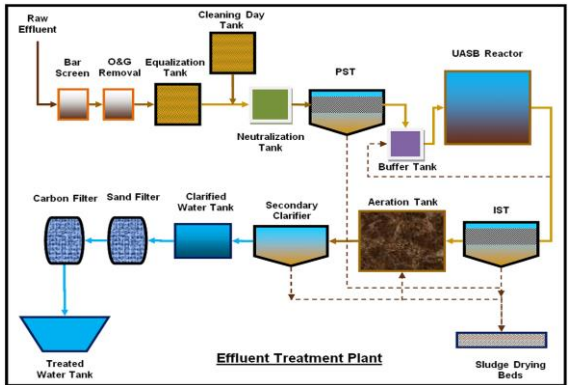
LANDSCAPE

- Lush green environment prevails in the campus.
- Beautiful landscaping all around the building blocks.
- Small hedges used to define the open passages.
- Seating space developed around and under the tree.



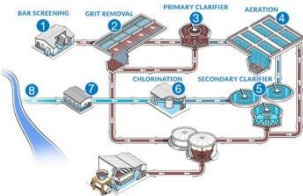
EFFULENT TREATMENT PLANT

- There was no plant for effluent water.
- The etp was under construction.
- **Etp** is one type of waste water treatment method which is particularly designed to purify industrial waste water for its reuse and it's aim is to release safe water to environment from the harmful effect caused by the effluent.



SEWAGE TREATMENT PLANT

- **Sewage treatment** is the process of removing contaminants from municipal wastewater, containing mainly household sewage plus some industrial wastewater.
- Storage tank - 2lakh litre
- Daily water treated – 1lakh litre
- Treated water is further used for irrigation and also for use in cistern



HVAC

- 3 centrifugal chiller plant
- 3 control panel
- 704 kw chiller plant power with 3000 rpm
- Secondary pump for pressure
- 270 ahu (45-50 per floor)



Ram manohar lohiya medical institute, lucknow is spread across more than 25 acres of serene surroundings and all the necessary facilities available within campus, the university promises to be a perfect place for learning.

Ram manohar lohiya medical institute, is established in the lucknow, with a annual intake capacity of 100 mbbs students and with a learning hospital of 500 bed capacity providing all the world class medical facilities to both students and nearby neighborhoods.

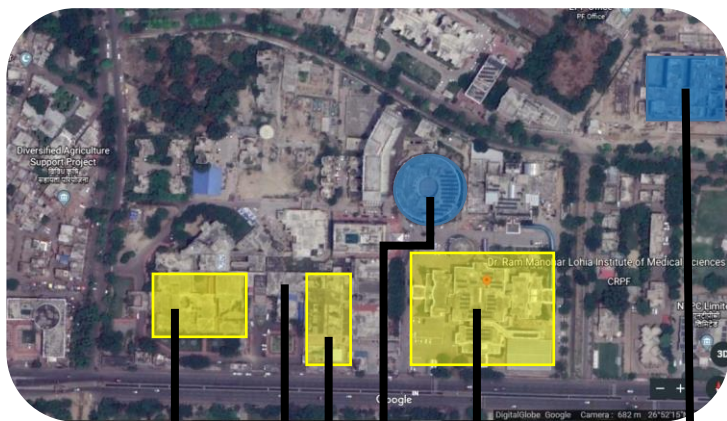
Student intake - ram manohar lohiya medical institute, lucknow has a annual student intake of 100 students for mbbs course.

Architect – a.K. And associates

Location – ram mahnar lohia medical college combined hospital is located in vibhuti khand ,gomti nager. Access form 9.46m wide road which further joins to the 9m wide main road.



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PARKING
AND
RESIDENT
IAL ARE

EMERGEN
CY

ADMINIST
RATION
BLOCK

LEARNING
HOSPITAL

ACADEMI
C BLOCK

OWNER - GOVERNMENT.

LOCATION - VUBHITI
KHAND, GOMTI NAGAR , LKO.

SITE AREA - 25ACRE.

GROUND COVERAGE - 20000 SQ.M.

CONFIGURATION - 500 BEDED
HOSPITAL. AND 100 STUDENT ANNUAL

FORM - IRREULAR FORM.

ARCHITECTS - SKYLINE

YEAR OF CMPLTION - 2017

CLIMTE - COMPOSITE.

**FOOT FALL
DAY** - 7000-8000 PER

BUS
TERMINAL
14KM

INDIRA GANDHI
INTERNATIONAL
AIRPORT 17KM

RAILWAY STATION
11KM

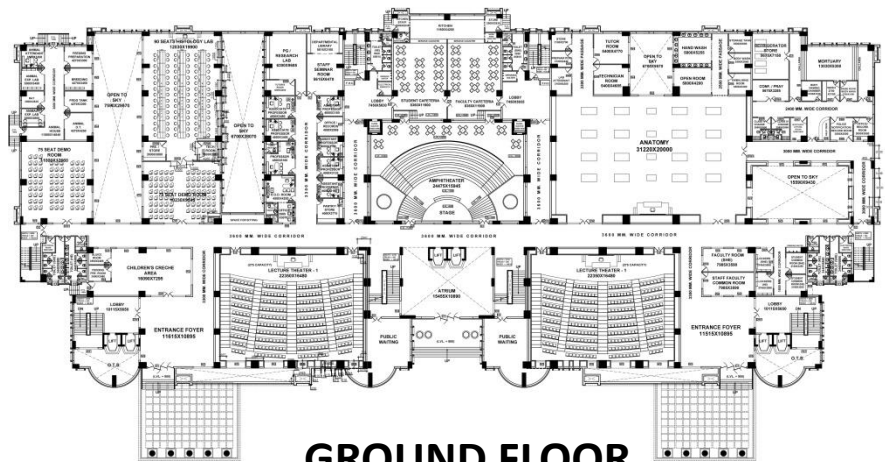
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CORRIDOOR

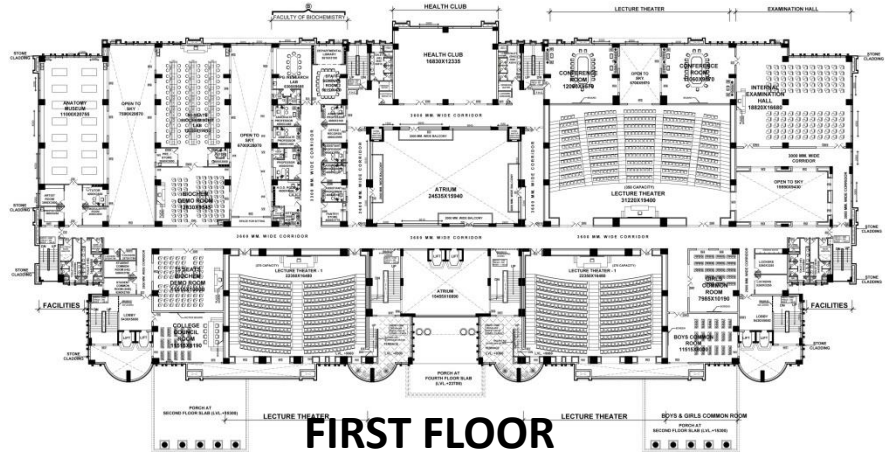
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**DOUBLE LOADED
CORRIDOOR
PLANNING**

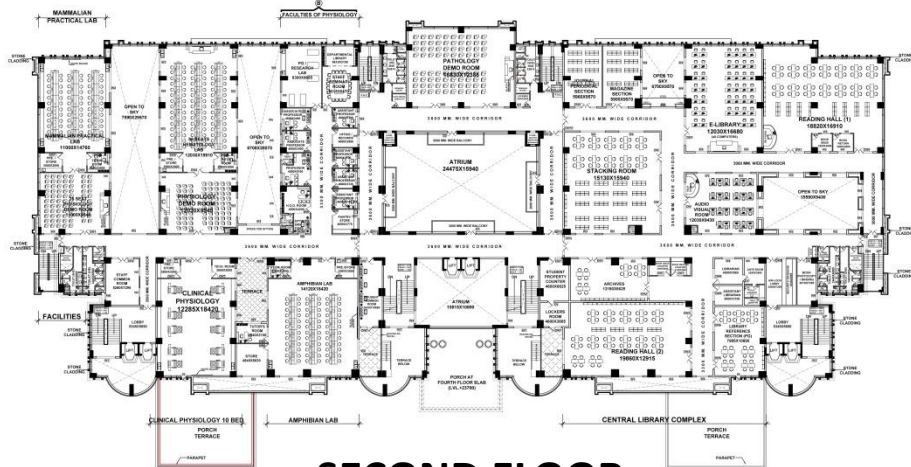
- ☐ LECTURE HALL
- ☐ AMPITHEATRE
- ☐ ANATOMY HALL
- ☐ STAIRCASE
- ☐ FIRE STAIRCASE
- ☐ LIFTS
- ☐ DUMB WAITER LIFT
- ☐ FACULTY CAFETERIA
- ☐ STUDENT CAFETERIA
- ☐ H.O.D OFFICE
- ☐ ASSISTANT PROF.
- ☐ ANIMAL HOUSE
- ☐ HISTOLOGY LAB
- ☐ MORTUARY
- ☐ DEMO ROOM
- ☐ INTERNAL
- ☐ EXAMINATION HALL
- ☐ MAMMALIAN PRACTICAL LAB
- ☐ FACALITIES OF PHYSIOLOGY
- ☐ PATHOLOGY DEMO ROOMS
- ☐ CLINICAL PHYSIOLOGY
- ☐ FORENSIC MEDICINE LAB
- ☐ AMPHIBIAN LAB
- ☐ E-LIBRARY
- ☐ STACKING ROOM
- ☐ READING HALL
- ☐ LIBRARY
- ☐ HISTO-PATHOLOGY PRACTICAL LAB
- ☐ PATHOLOGY
- ☐ PATHOLOGY MUSEUM
- ☐ MICROBIOLOGY LAB
- ☐ PATHOLOGY CLINICAL LAB
- ☐ PATHOLOGY SERVICE LAB
- ☐ MICRIBIOLOGY SERVICE LAB
- ☐ COMMUNITY MEDICINE ROOM



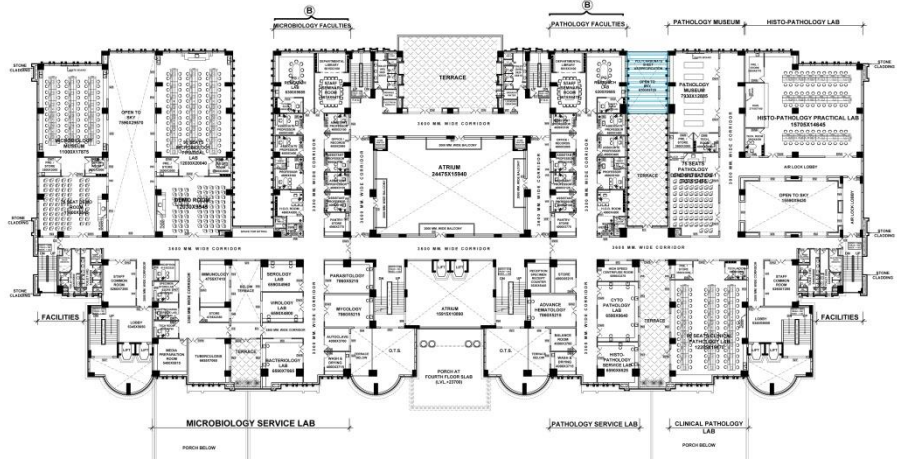
GROUND FLOOR



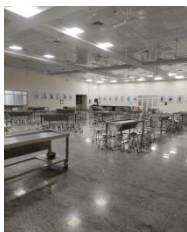
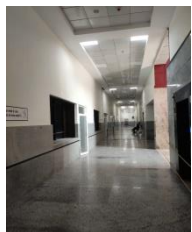
FIRST FLOOR



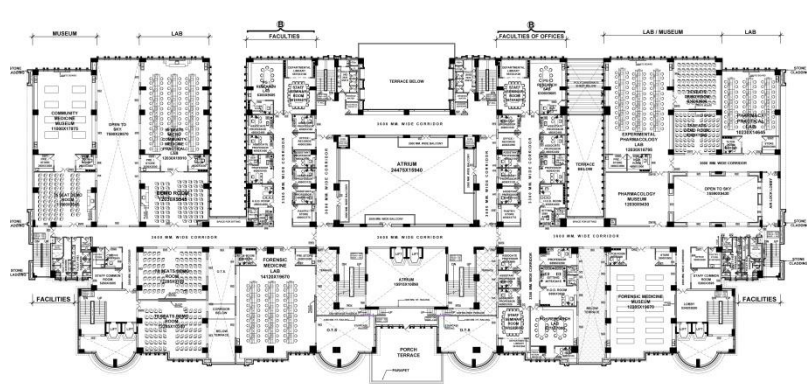
SECOND FLOOR



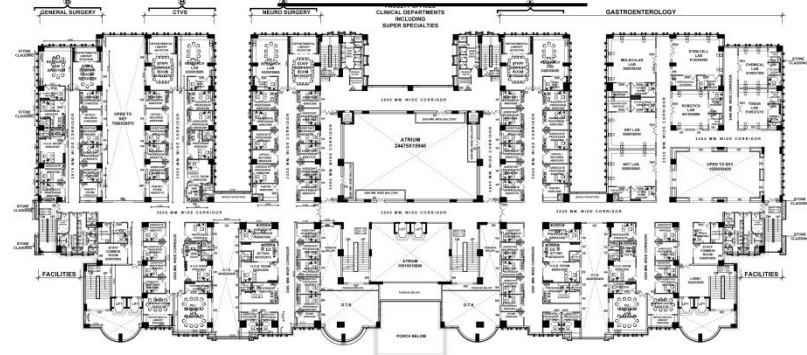
THIRD FLOOR



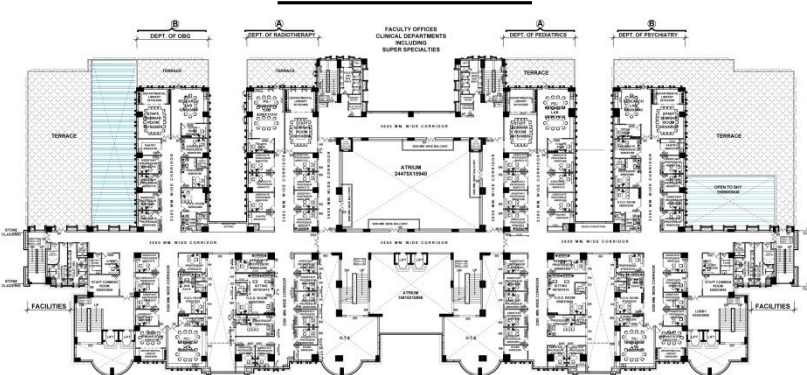
- ❑ MUSEUM OF CUMMUNITY MEDICINE
- ❑ LAB AND DEMO ROOM
- ❑ FACULTY ROOMS
- ❑ MICROBIOLOGY LAB
- ❑ FORENSIC MEDICINE LAB
- ❑ FORENSIC MEDICINE MUSEAM
- ❑ RESEARCH CUM FACULTY OFFICE
- ❑ COMMUNITY MEDICINE ROOM
- ❑ PHARMACOLOGY
- ❑ PHARMACY PRACTICAL LAB



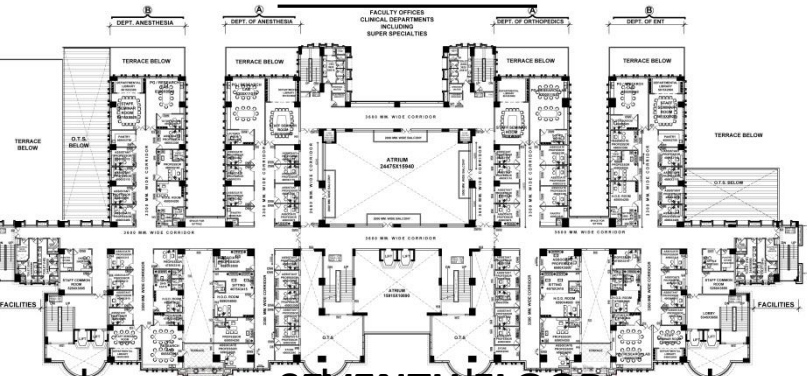
FOURTH FLOOR



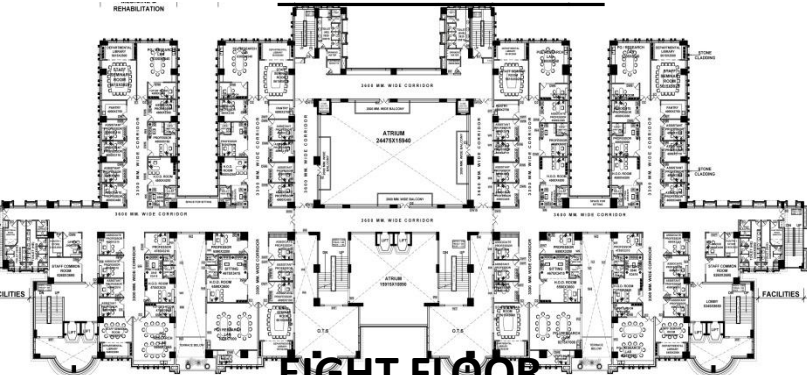
FIFTH FLOOR



SIXTH FLOOR

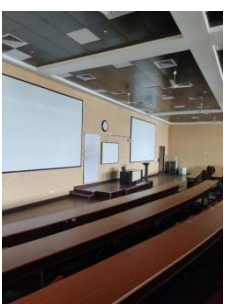
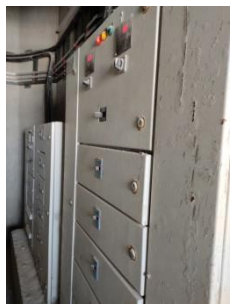
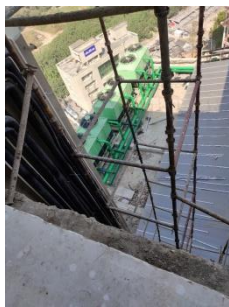


SEVENTH FLOOR



EIGHT FLOOR

- ❑ MUSEUM OF CUMMUNITY MEDICINE
- ❑ LAB AND DEMO ROOM
- ❑ FACULTY ROOMS
- ❑ MEURO SURGERY
- ❑ GENERAL SURGERY
- ❑ CHEMICAL LAB
- ❑ DRY LAB
- ❑ WET LAB
- ❑ SUPERSPECIALITIES
- ❑ PRACTICAL LAB
- ❑ DEPARTMENT OF NEUROLOGY
- ❑ DEPARTMENT OF CARDIOLOGY
- ❑ FACULTY ROOMS
- ❑ DEPARTMENT OF DENTISTRY
- ❑ DEPARTMENTAL LIBRARY
- ❑ RESERCH LAB
- ❑ DEPARTMENT OF PHYSICAL MEDICINES
- ❑ DEPARTMENT OF REHABILITATION

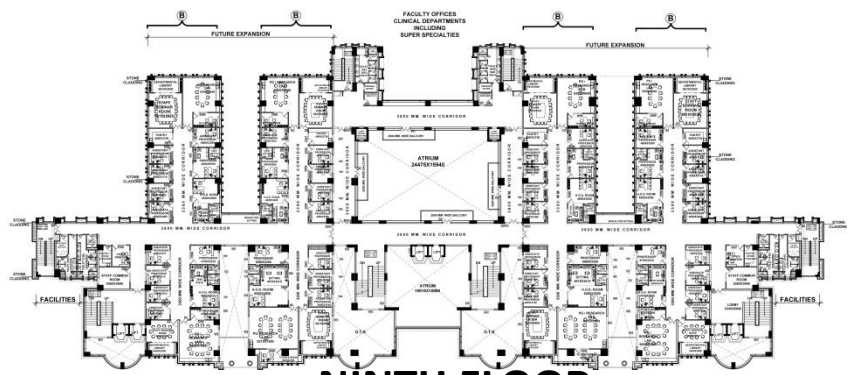


LEARNING HOSPITAL

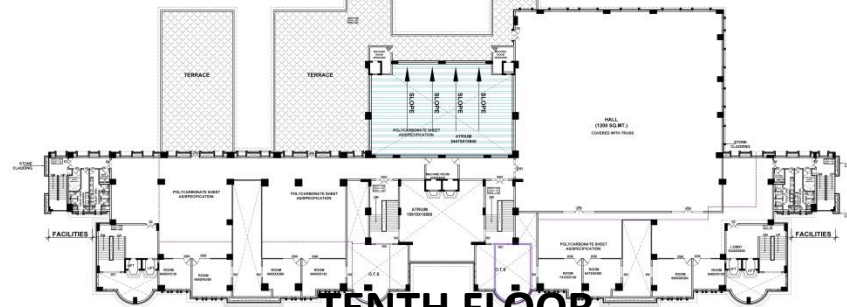


➤ FACILITIES

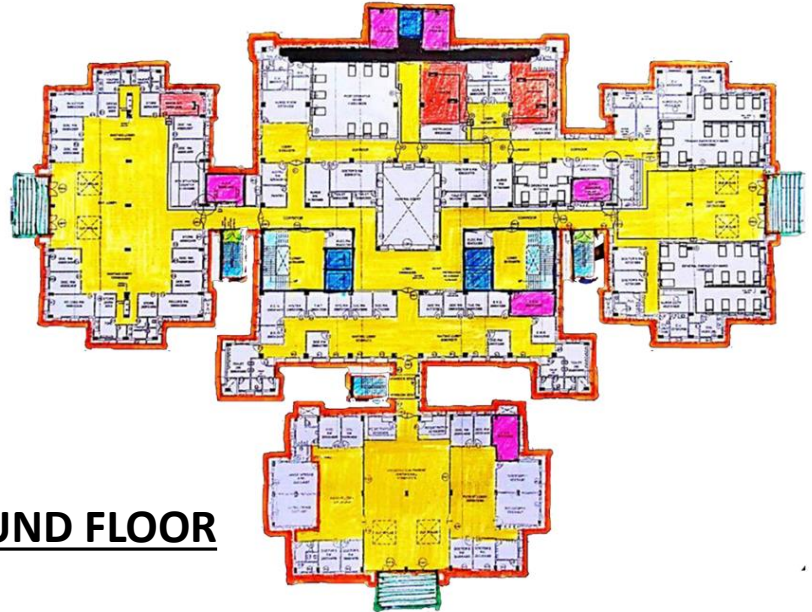
- REGISTRATION
- O.P.D.
- DAY CARE WARD
- M.S. OFFICE
- EMERGENCY MEDICINE
- SAMPLE COLLECTION
- SURGICAL ONCOLOGY
- I.C.U.
- GASTRO SURGERY
- O.P.D. PHARMACY
- CARDIOLOGY
- SURGICAL PHARMACY
- CARDIO VASCULAR AND
- THORACIC SURGERY



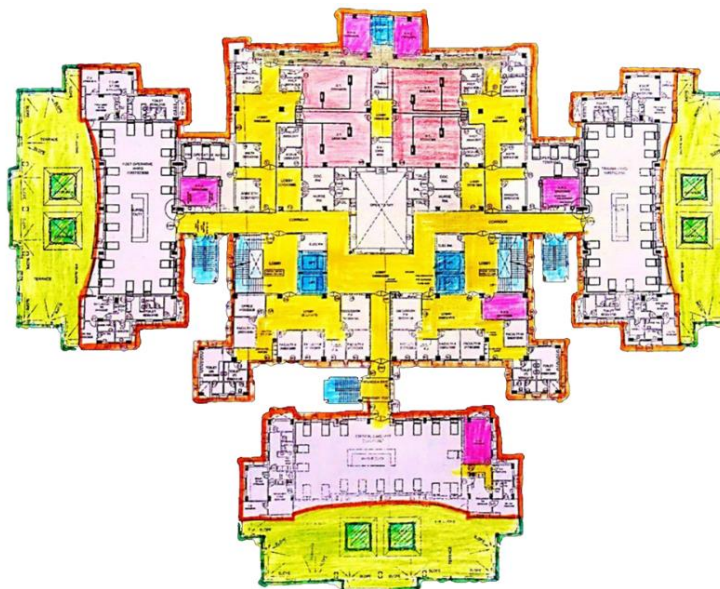
NINTH FLOOR



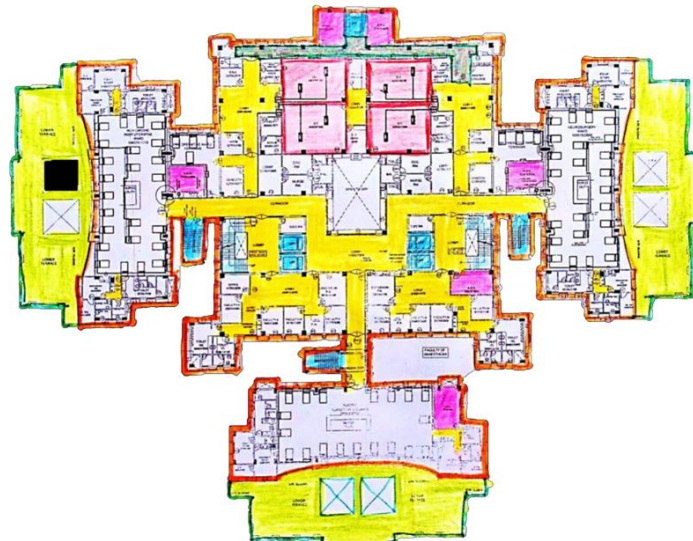
TENTH FLOOR



GROUND FLOOR



FIRST FLOOR

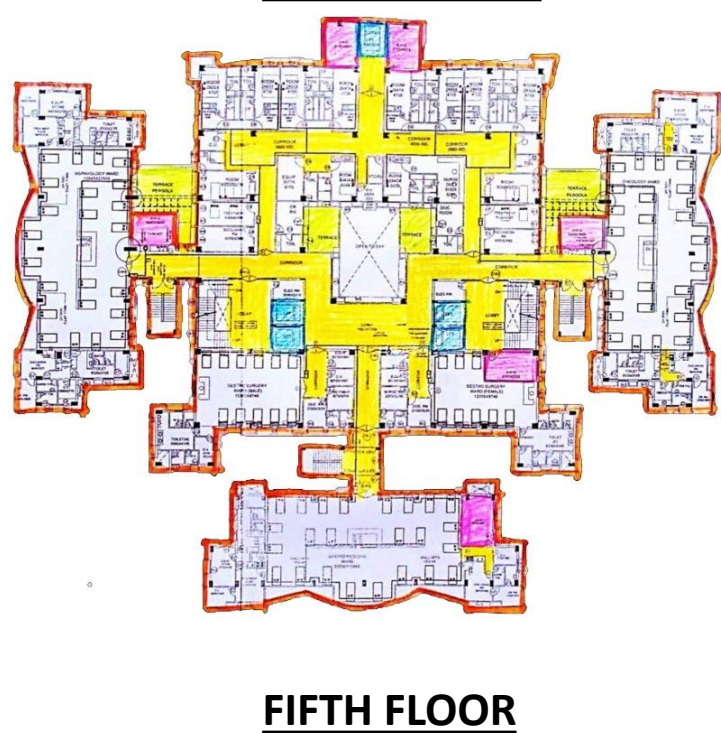
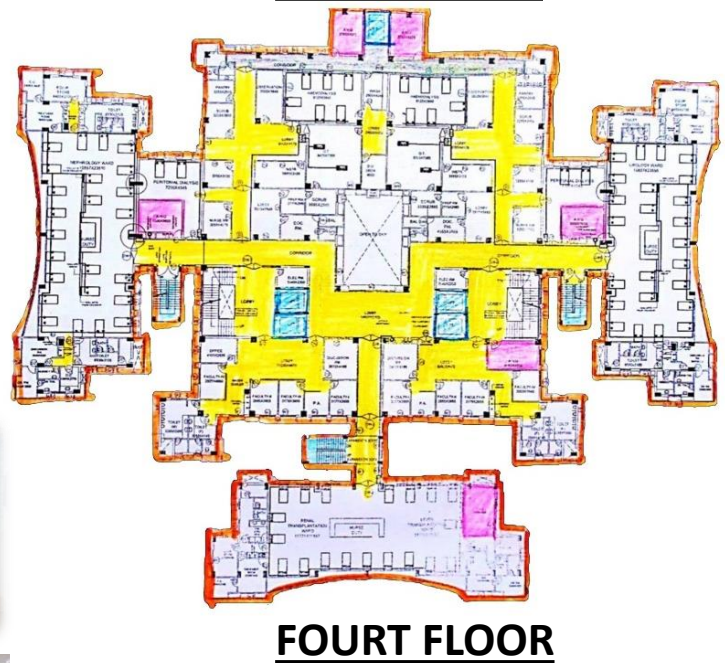
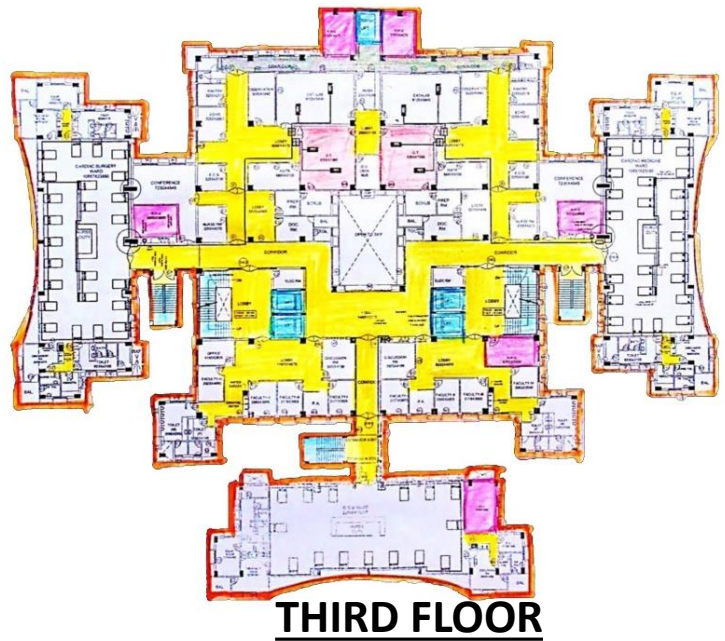


SECOND FLOOR

➤ LIFT

LIFT LOBBY CONSIST OF:

- PASSENGER LIFT
- STRETCHER LIFT
- ELECTRICAL ROOM
- A.H.U. ROOM
- PUBLIC SEATING AREA
- PUBLIC SIGNAGE
- STAIR WELL
- BLACK GRANITE STRIPS ARE USE ON LIFT ENTRANCE AND VITRIFIED TILES ON THE FLOOR. (JHONSONS)
- STEEL OF GRADE 316 ARE USED ON STAIR RAILING.



WEILL CORNELL MEDICAL COLLEGE, NEW YORK

Weill cornell medical college biomedical research unit and medical school of cornell university, a private levy league university. The medical college is located at 1300 york avenue, on the upper east side of manhattan in new york city, along with the weill cornell graduate school of medical sciences.

- PROJECT NAME

MEDICAL COLLEGE
- LOCATION

NEW YORK413 EAST 69TH STREET, , NY 10021, USA
- ARCHITECTS

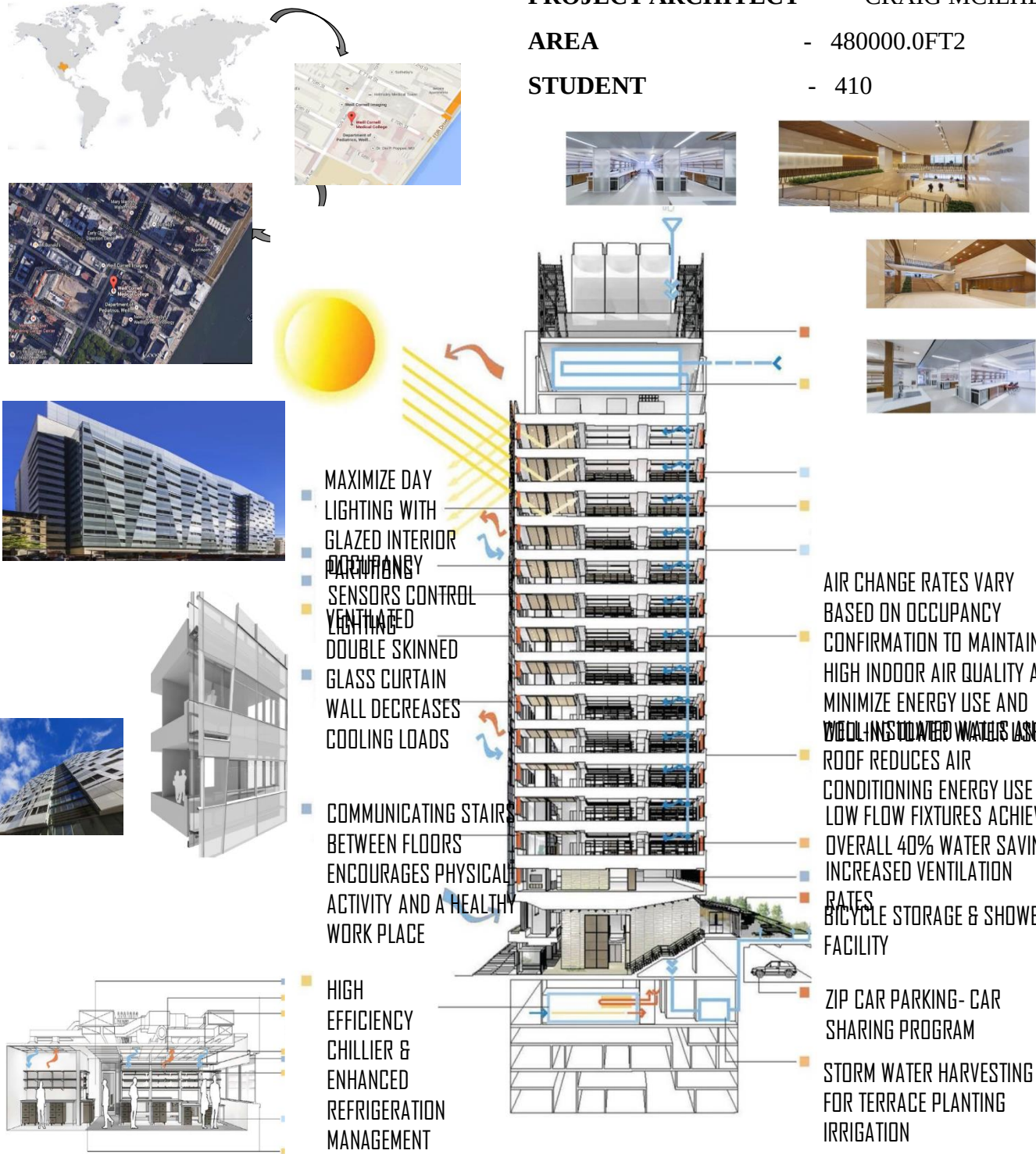
TODD SCHLIEMANN ,ENNEAD ARCHITECTS
- PROJECT MANAGER

LOIS MATE
- PROJECT ARCHITECT

CRAIG MCILHENNY
- AREA

480000.0FT2
- STUDENT

410



Building Systems
& Toilets

Vertical Circulation

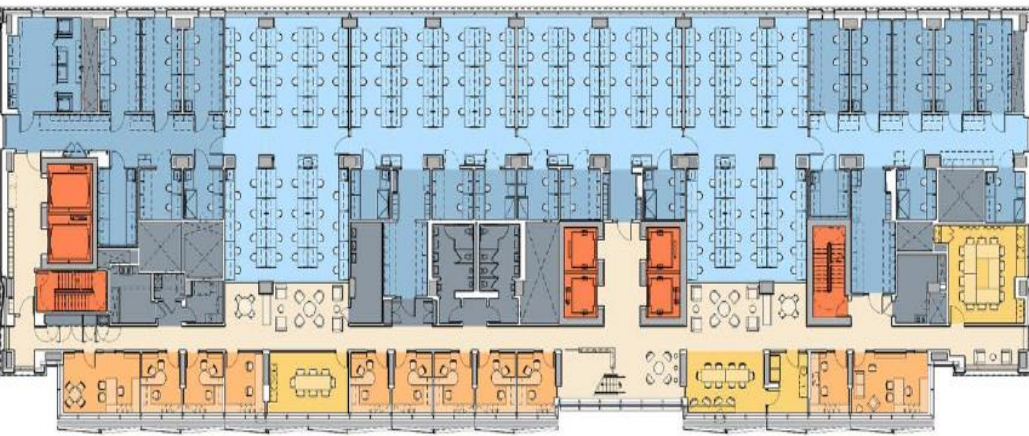
Building Support

Corridors

College Program



GROUND FLOOR



FIRST FLOOR



SECOND FLOOR



SECTIONAL VIEW

S.N.	REQUIREMENTS	RAM MANOHAR LOHIYA INSTITUTE OF MEDICAL SCIENCE	RAMA MEDICAL COLLEGE	STANDARD AS PER MCI NORMS	REQ. AREA
1	DEPARTMENT OF ANATOMY				
	DEMONSTRATION ROOM	140 SQM	140 SQM	60 SQM (2 NOS)	60 SQM (2 NOS)
	LECTURE THEATRE	370 SQM	71 SQM	60 SQM - 100 SQM	80 SQM
	DESSECTION HALL	620 SQM	500SQM	350 SQM	350 SQM
	MUSEUM	230 SQM	198 SQM	200 SQM	215 SQM
	HISTOLOGY LAB	240 SQM	205 SQM	200 SQM	200 SQM
	DEPARTMENTAL LIBRARY	17 SQM	34 SQM	30 SQM	30 SQM
	RESEARCH LABORATORY	60 SQM	32 SQM	50 SQM	50 SQM
2	DEPARTMENT OF PHYSIOLOGY				
	DEMONSTRATION ROOM	140 SQM	196 SQM	60 SQM (2 NOS)	60 SQM (2 NOS)
	LECTURE THEATRE	370 SQM	—	60 SQM - 100 SQM	80 SQM
	AMPHIBIAN LAB	260 SQM	90 SQM	200 SQM	200 SQM
	MAMMALIAN LAB	160 SQM	90 SQM	80 SQM	80 SQM
	HAEMETOLOGY LAB	240 SQM	200 SQM	200 SQM	200 SQM
	DEPARTMENTAL LIBRARY	17 SQM	36 SQM	30 SQM	30 SQM
	RESEARCH LABORATORY	60 SQM	36 SQM	50 SQM	50 SQM
	CLINICAL LAB	220 SQM	180 SQM	—	—
3	DEPARTMENT OF BIOCHEMISTRY				
	DEMONSTRATION ROOM	110 SQM	160 SQM	60 SQM (2 NOS)	60 SQM (2 NOS)
	DEPARTMENTAL LIBRARY	17 SQM	36 SQM	30 SQM	30 SQM
	RESEARCH LABORATORY	60 SQM	36 SQM	50 SQM	50 SQM
	PRACTICAL CLASS ROOM	240 SQM	200 SQM	200 SQM	200 SQM
4	DEPARTMENT OF MICROBIOLOGY				
	DEMONSTRATION ROOM	110SQM	150 SQM	60 SQM (2 NOS)	60 SQM (2 NOS)
	DEPARTMENTAL LIBRARY	17 SQM	36 SQM	30 SQM	30 SQM
	MICROBIOLOGY MUSEAM/SEPRATE SERVICE LABS	190 SQM	80 SQM	200 SQM	200 SQM
	RESEARCH LABORATORY	60 SQM	36 SQM	50 SQM	50 SQM
	PRACTICAL CLASS ROOM	240 SQM	200 SQM	200 SQM	200 SQM

S.N.	REQUIREMENTS	RAM MANOHAR LOHIYA INSTITUTE OF MEDICAL SCIENCE	RAMA MEDICAL COLLEGE	STANDARD AS PER MCI NORMS	REQ. AREA
5	DEPARTMENT OF PATHOLOGY				
	DEMONSTRATION ROOM	100 SQM	150 SQM	60 SQM (2 NOS)	60 SQM (2 NOS)
	LECTURE THEATRE	370 SQM	–	80 SQM	80 SQM
	HISTOPATHOLOGY /CYTOPATHOLOGY LAB	230 SQM	100 SQM	200 SQM	200SQM
	CLINICAL PATHOLOGY/HAEMATOLOGY LAB	240 SQM	100 SQM	200 SQM	200 SQM
	HAEMETALOGY/HISTOPATHOLO GY/ CYTOPATHOLOGY SERVICE LAB	42 SQM	–	90 SQM	90 SQM
	MUSEUM	95 SQM	75 SQM	90 SQM	90 SQM
	AUTOPSY ROOM	–	–	400 SQM	400 SQM
	DEPARTMENTAL LIBRARY/SEMINAR	17 SQM	30 SQM	30 SQM	30 SQM
	RESEARCH LABORATORY	60 SQM	35 SQM	50 SQM	50 SQM
6	DEPARTMENT OF PHARMACOLOGY				
	DEMONSTRATION ROOM	65 SQM	196 SQM	60 SQM(2 NOS)	60 SQM(2 NOS)
	LECTURE THEATRE	370 SQM	–	80 SQM	80 SQM
	EXPERIMENTAL PHARMACOLOGY LAB	200 SQM	100 SQM	200 SQM	200 SQM
	CLINICAL PHARMACOLOGY LAB	–	100 SQM	200 SQM	200 SQM
	MUSEUM	113 SQM	135 SQM	125 SQM	125 SQM
	DEPARTMENTAL LIBRARY	17 SQM	36 SQM	30 SQM	30 SQM
	RESEARCH LABORATORY	60 SQM	36 SQM	50 SQM	50 SQM
7	DEPARTMENT OF FORENSIC MEDICINE AND TOXICOLOGY				
	DEMONSTRATION ROOM	110 SQM	60 SQM(2 NOS)	60 SQM(2 NOS)	60 SQM(2 NOS)
	MUSEUM	210 SQM	120 SQM	175 SQM	175 SQM
	FORENSIC HISTOPATHOLOGY	–	30 SQM	200 SQM	200SQM
	AUTOPSY ROOM	–	–	400 SQM	400 SQM
	DEPARTMENTAL LIBRARY	30 SQM	30 SQM	30 SQM	30 SQM
	RESEARCH LABORATORY	60 SQM	36 SQM	50 SQM	50 SQM
8	DEPARTMENT OF COMMUNITY MEDICINE				
	DEMONSTRATION ROOM	100 SQM	60 SQM(2 NOS)	60 SQM(2 NOS)	60 SQM(2 NOS)
	PRACTICAL LAB	240 SQM	–	200 SQM	200 SQM
	COMMON LECTURE THEATRE	150 SQM(2NOS)	–	350 SQM	3500 SQM
	MUSEUM	195 SQM	80 SQM	125 SQM	125 SQM
	DEPARTMENTAL LIBRARY	17 SQM	15 SQM	30 SQM	30 SQM
	RESEARCH LABORATORY	60 SQM	36 SQM	50 SQM	50 SQM

CONCEPT

The site for proposed medical college is located at nh-44 at amarpur

In uttar pradesh and is about 23 kms from lalitpur railway station .

As we known that there has been a lack of medical colleges in Our country as compared to number of its applicants in the state Of uttar pradesh with mbbs college in the state with in take

Capacity of 1700 students per year which is too small as compared

To the student willing to study medicine

As the site is proposed in lalitpur district .100 bed capacity medical College and 500 bed capacity bearing hospital will serve people in a Pretty good manner

CLIMATE

Amarpur has a composit climate with cold winter and 12*c to 27*c in the hot summer

The climate of amarpur is genrally hot and dry from april to june

And from june to september teh climate is warm and humid.And from

November to february the weather is cold and dry.

In amarpur the average maximum temperature stays in the range of 42*c

And the minimum temperature stays in the range of

Summer average maximum temprature in the winter is 23*c to 33*c

And minimum temprature is 2*c to 7*c .The

maximum rainfall is around 350 mm

.In july to august month and the minimum rainfall is around 20mm in the

Month of november to april

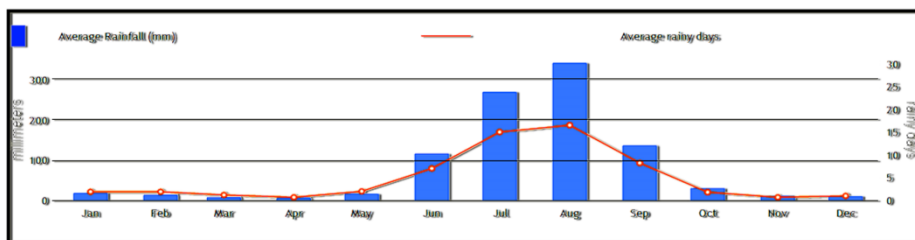
TOWARDS JHANSI



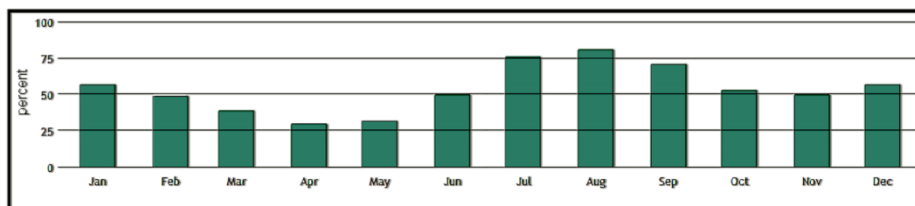
PROPOSED SITE FOR
MEDICAL COLLEGE

TOWARDS AMARPUR

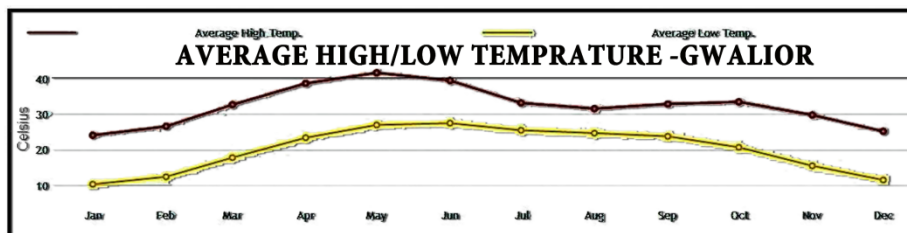
TOWARDS SAGAR



AVERAGE RAINFALL -AMARPUR



AVERAGE HUMIDITY -AMARPUR



AVERAGE HIGH/LOW TEMPERATURE -GWALIOR

SITE DETAILS

Total site area - 23.16 acre (93760 sq mts)

Maximum ground coverage - 25%

Maximum building height -28 mts

Maximum floor area ratio- 1.0

Minimum front set back - 12 mt

Minimum rear set back - 9 mt

Minimum set back - 6 mt

Soil - red soil (6 ton /sq mt)

Contours - no contours (plain site)

GREEN BUILDING

IT IS THE PRACTICE OF INCREASING EFFICIENCY WITH WHICH BUILDING USE RESOURCES -ENERGY WATER AND MATERIAL WHILE REDUCING BUILDING IMPACT ON BUMAN HEALTH AND THE ENVIRONMENT

CONCEPT

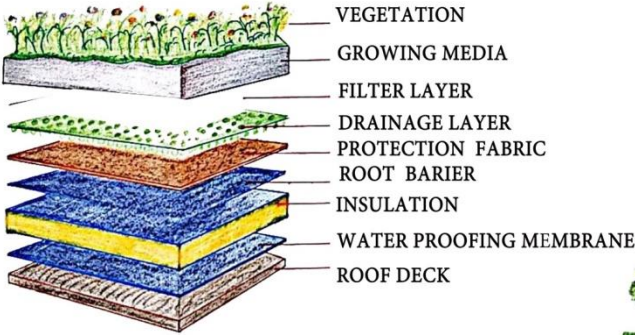
THE GREEN BUILDING CONCEPTS ARE GAINING IMPORTANCE IN VARIOUS COUNTRIES INCLUDING INDIA

> THESE ARE THE BUILDING THAT ENSURE THAT WASTE IS MINIMISED AT EVERY STAGE DURING THE CONSTRUCTION AND OPERATION OF THE BUILDING RESULTING I N LOW COSTS ,ACCORDING TO EXPERTS IN TECHNOLOGY

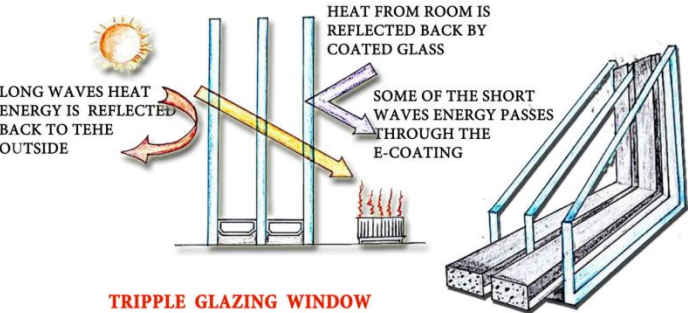
HOW TO MAKE GREEN BUILDING ?

*A GREEN BUILDING IS A STRUCTURER THAT IS ENVIRONMENTALLY RESPONSIBLE AND RESOURCE EFFICIENT THROUGHOUT ITS LIFF -CYCLE

*EXPAND AND COMPLEMENT TNE CLASSIC BUILDING DESIGN CONCERNS OF ECONOMY ,UTILITY , DURABILITY AND COMFORT

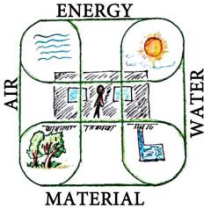


TYPES OF BUILDING	AVERAGE ENERGY SAVING IN GREEN BUILDING	AVERAGE WATER SAVING IN GREEN BUILDING
CORPORATE OFFICE	47%	60%
TECH. PARKS	27%	50%
HOTELS	35%	45%
HOSPITALS	33%	35%
EDUCATIONAL	39%	40%



BUILDING TYPES

- * RESIDENTIAL BUILDINGS
- *EDUCATIONAL BUILDINGS
- *INSTITUTIONAL BUILDING (MEDIACL COLLEGE)
- * HEALTHCARE FACILITIES (HOSPITAL)
- *COMMERCIAL BUILDING



OF OUR HOMES IS FUNDAMENTAL TO OUR QUALITY OF LIFE ,COMFORT AND HOW AFFIRDABLE THEY TO RUN

OF OUR SCHOOLS LEAVES A LIFE-LONG IMPRINT O THOSE WHO LEAN WITHIN , INFLUENCING PEOPLE CONCENTRATION AND HOW ENVIRONMENTALY AWARE THE NEXT GENERATION IS.

OF OUR HOSPITALS AFFECT PATIENT RECOVERY TIMES AND NATIONAL HEALTH SERVICE BILLS

OF OUR CITIES AND COMMUNITIES STRONGLY DETERMINES THEIR ECONOMICS AND SOCIAL DYNAMICS

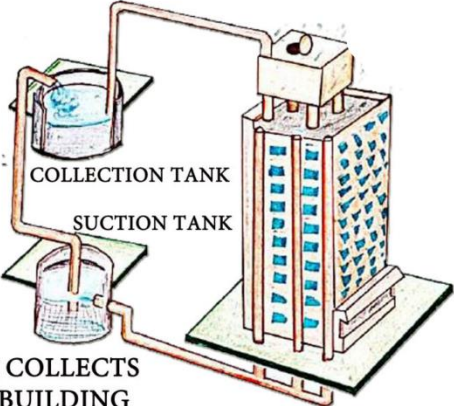
RAIN WATER HARVESTING

WHEN WE TALK ABOUT VARIOUS DESIGN FEATURES THAT MAKES THE BUILDING GREEN .IT IS NOT JUST EXPENSIVE MATERIAL THAT CONSUME LESS ENERGY OR ARE LESS ENERGY INTENSIVE.

RAIN WATER HARVESTING IS ONE SUCH DESIGN FEATURES

THAT TO BE INCORPORATED IN ANY KIND OF BUILDING COLLECT AND UTILIZE RAIN WATER HARVESTING IS TECHNOLOGY IN WHICH INDIVIDUAL BUILDINGS COLLECT AND UTILIZE RAIN SEASON .THIS WATER

CAN BE STORED IN THE TANKS AND USED FOR ANY PURPOSE IN RAIN WATER HARVESTING SYSTEM ,A STORAGE TANK IS REQUIRED WHICH CAN BE A PART OF THE UNDERGROUND WATER TANK OR ATANK ON THE SURFACE THIS TANK COLLECTS WATER THAT FALLS ON THE BUILDING AND THEN IT WILL BE FLATTERED AND CAN BE USED IN ANY PURPOSE



MERITS OF GREEN BUILDING

- * EFFICIENT TECHNOLOGIES
- *EASIER MAINTINANCE
- * RETURN ON INVESTMENT
- * IMPROVED INDOOR AIR QUANTITY
- *ENERGY EFFICIENCY
- *WATER EFFICIENCY
- *WASTE WATER REDUCTION
- *TEMPRATURE MODERATION
- *WATER CONSERAVATION
- *ECONOMICAL CONSTRUCTION FOR POORS
- *HEALTHIER LIEF STYLES AND RECREATION
- *IMPROVED HEALTH

DEMERITS OF GREEN BUILDING

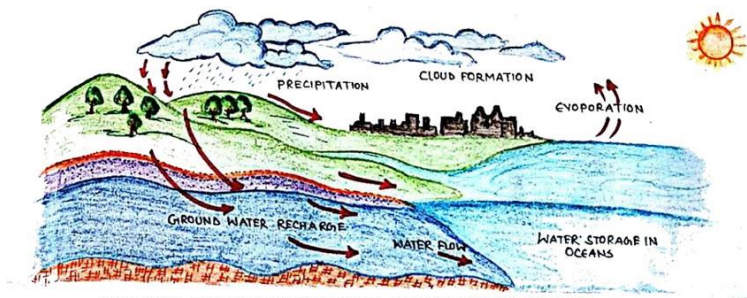
- * INITIAL COST IS HIGH
- *UN AVAILABILITYOF MATERIAL S
- * NEED MORE TIME TO CONSTRUCT
- *NEED SKILLS WORKERS

RENEWABLE ENERGY

RENEWABLE ENERGY IS GENERALLY DEFINED AS ENERGY THAT IS COLLECTED FROM RESOURCES WHICH ARE NATURALLY REPLENISHED ON A HUMAN TIME SCALE SUCHAS SUNLIGHT ,WIND RAIN TIDES ,WAVES AND GEOTHERMAL HEAT

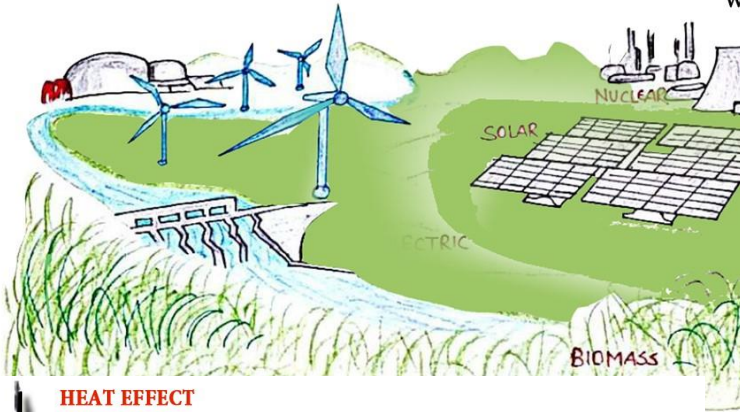
SOLAR ENERGYY :-SOLAR ENERGYY IS RADIANT LIGHT AND HEAT FROM SUN HARDNESS USE IN A RANGE OF EVERY EVOLVING TECHNOLOGIES SUCHH AS SOLAR THEWRMAL LENERGY

BIO MASS :-BIOMASS IS ORGANIC MATTER DERIVED FROM LIVING OR RECENTLY LIVING ORGANISM CAN BE USED AS A SOURCE OF OR SOURCE OF ENERGY AND IT IS MOST OFTEN REFERS TO PLANT OR PLANTS -BASED MATERIAL WHICH ARE NOT USED FOR FOOD OR FEED ,AND ARE ESPECIALLY CALLED LIGNOCEIULOSIC BIO MASS ,AS AN ENERGY SOURCE , BIO MASS CAN EITHER BE USED DIRECTLY VIA COMBUSTIBLE TO PRODUCE HEAT ,OR INDIRECTLY AFTER CONVERTING IT TO VARIOUS FORMS OF BIOFUEL



UNDER GROUND WATER RECHARGE CYCLE

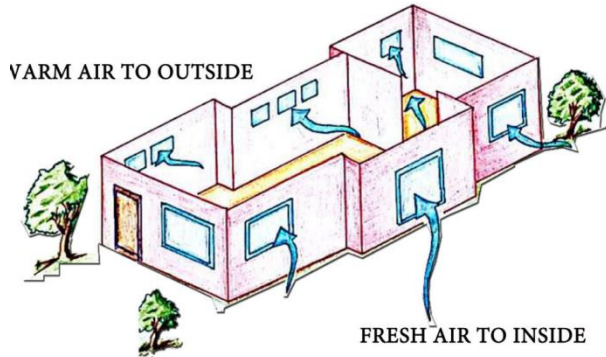
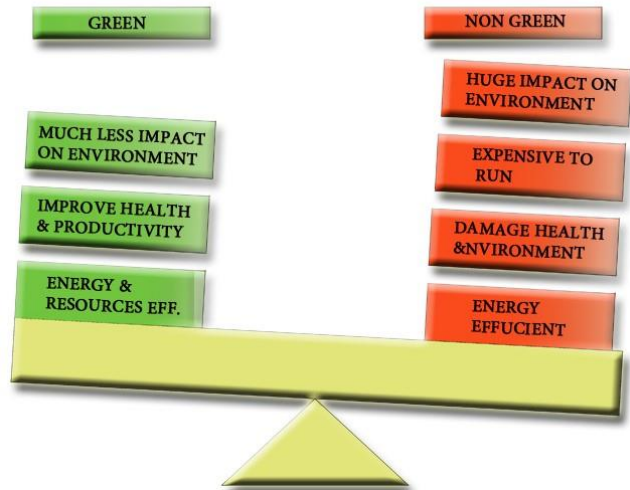
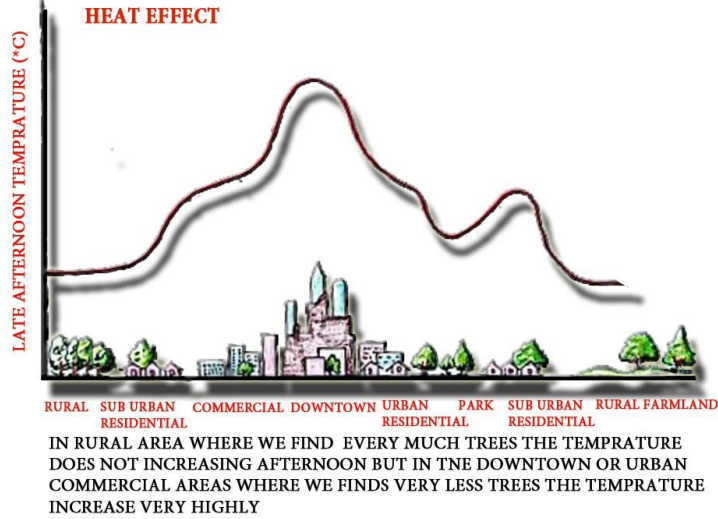
GROUNDWATER RECHARGE OR DEEP DRAINAGE OR DEEP PERCOLATION IS A HYDROLOGIC PROCESS, WHERE WATER MOVES DOWNWARD FROM SURFACE WATER TO GROUNDWATER. RECHARGE IS THE PRIMARY METHOD THROUGH WHICH WATER ENTERS AN AQUIFER. THIS PROCESS USUALLY OCCURSIN THE VADOSE ZONE BELOW PLANT ROOTS AND, IS OFTEN EXPRESSED AS A FLUX TO THE WATER TABLE SURFACE. GROUNDWATER RECHARGE ALSO ENCOMPASSES WATER MOVING AWAY FROM THE WATER TABLE FARTHER INTO THE SATURATED ZONE.



GREEN BUILDING FEATURES SUSTAINABILITY

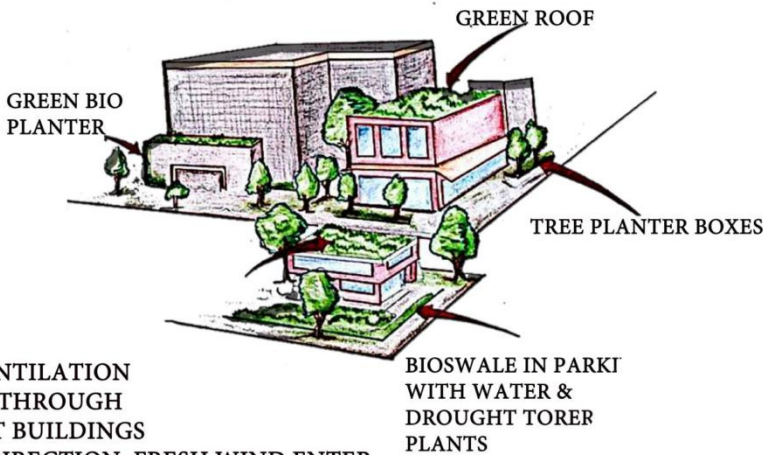
EVERYONE TALKS ABOUT SUSTAINABILITY ,BUT NO ONE KNOWS WHAT IT IS
_ DR KARL HENRIK ROBERT

WHAT IS SUSTAINABILITY ?
PROVIDING FOR HE NEEDS OF THE PRESENT WITHOUT DETRACTING FROM THE ABILITY TO FULFIL THE NEEDS OF THE FUTURE



CROSS VENTILATION WITH FRESH AIR

WIND VENTILATION IS A KIND OF PASSIVE VENTILATION THAT USES THE FORCE OF WIND TO PULL AIR THROUGH THE BUILDING .IN GREEN BUILDING CONCEPT BUILDINGS WE MADE BUILDING ACCORDING TO WIND DIRECTION .FRESH WIND ENTER THROUGH BIG WINDOWS THAT STARTS FROM FLOOR AND CAME OUT FROM VENTILATORS ON UPPER PART OF HE WALL IN OTHER DIRECTION

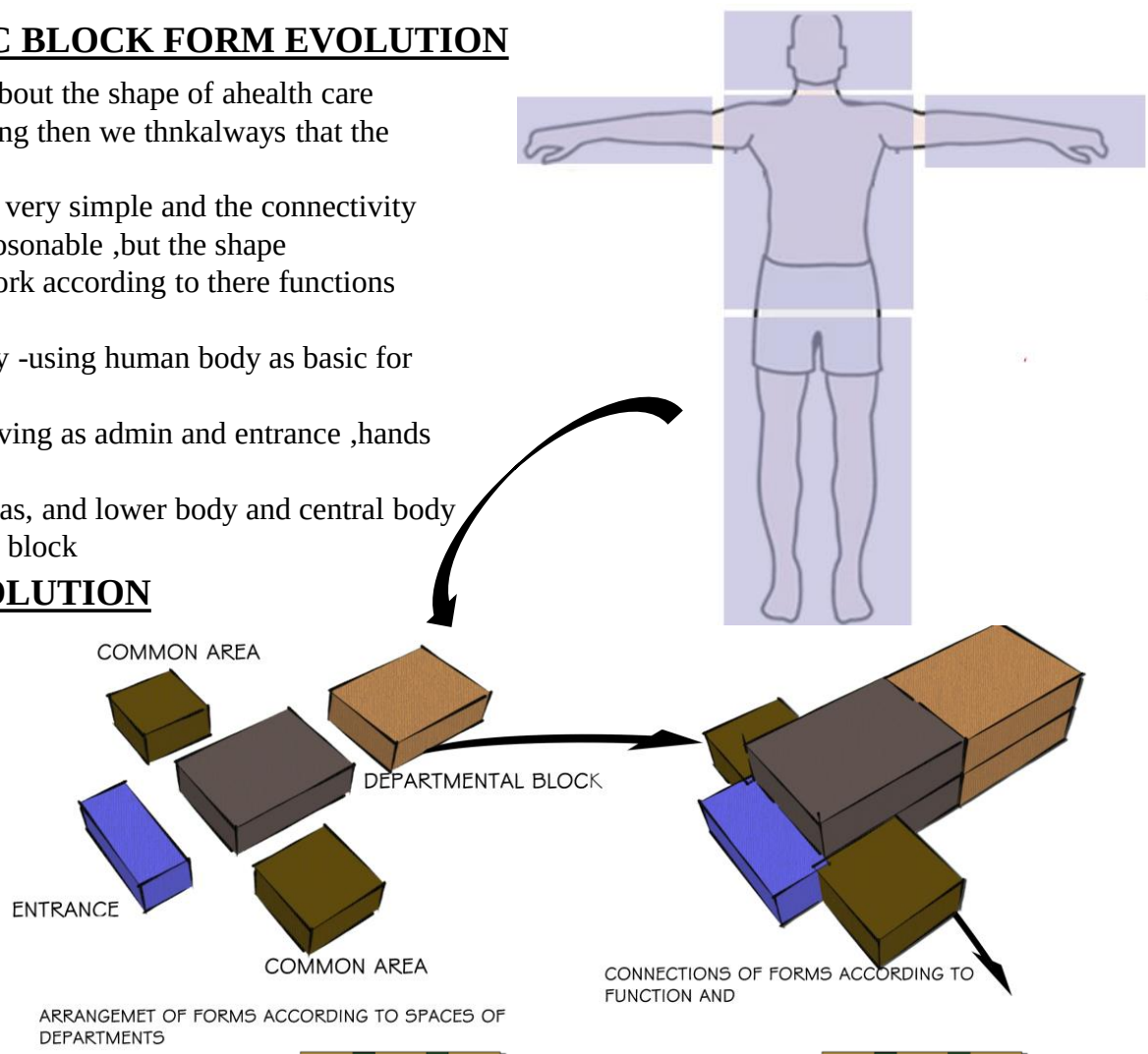


ACADEMIC BLOCK FORM EVOLUTION

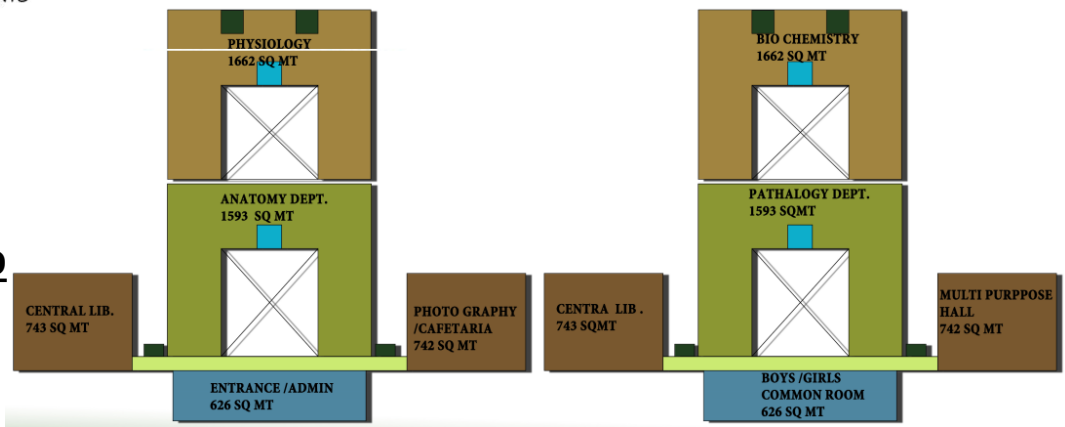
When we talk about the shape of a health care Category building then we think always that the building Shape has to be very simple and the connectivity Is also very reasonable ,but the shape Of the has to work according to there functions

Human anatomy -using human body as basic for planning
Where head serving as admin and entrance ,hands serving
As common areas, and lower body and central body as departmental block

FORM EVOLUTION



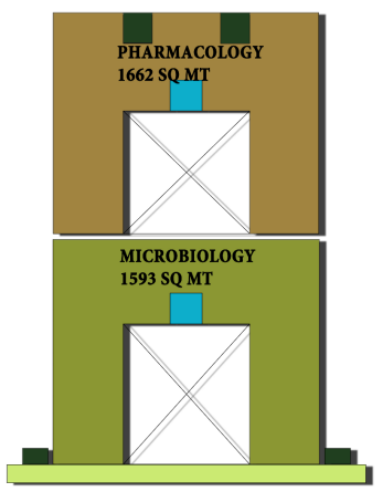
VERTICAL AND HORIZONTAL STACKING



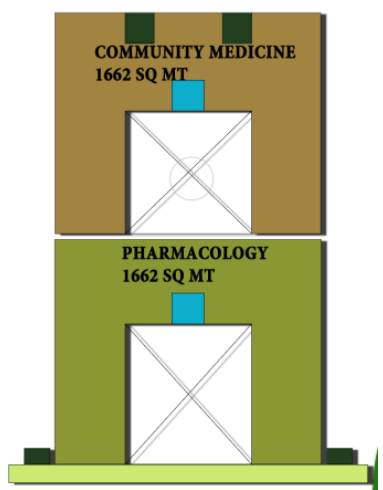
GROUND FLOOR

FIRST FLOOR

Rectangular forms are arranged in such a manner That flow should be maintained through connections And features of green buildings are used.....

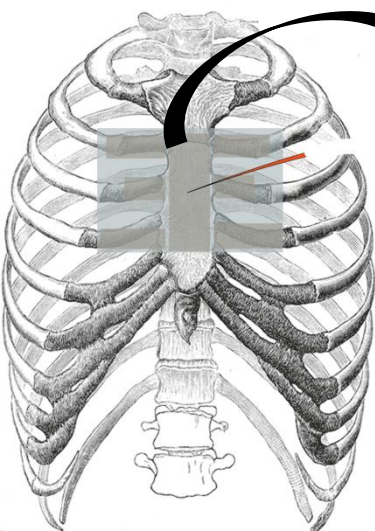


SECOND FLOOR



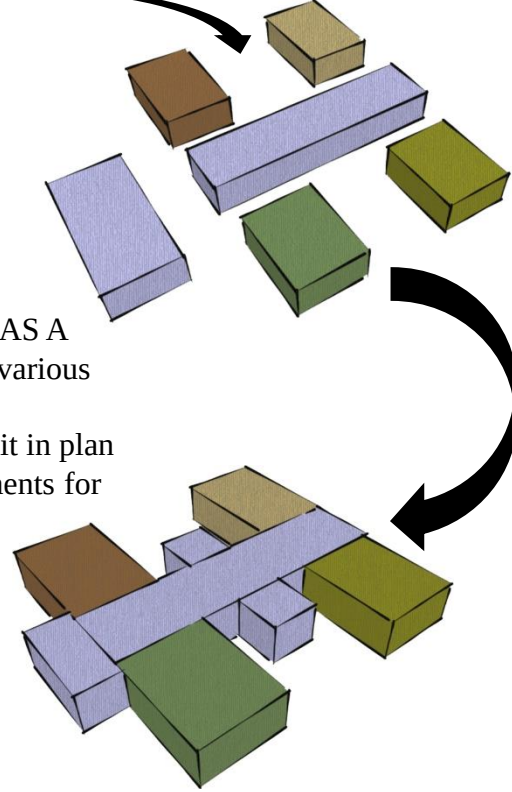
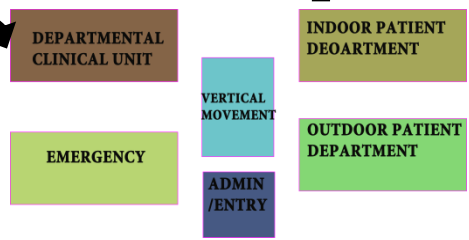
THIRD FLOOR

HOSPITAL BLOCK FORM EVOLUTION



RIBCAGE

RIBCAGE protects the heart and lungs AS A Hospital protects people suffering from various Disease .
Spinal cord woking as the movement unit in plan
Whereas ribs acting as different departments for Various purpose.

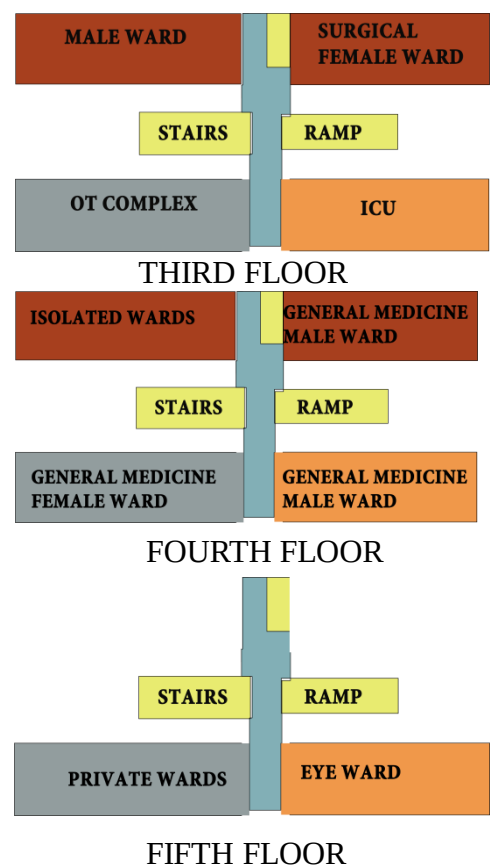
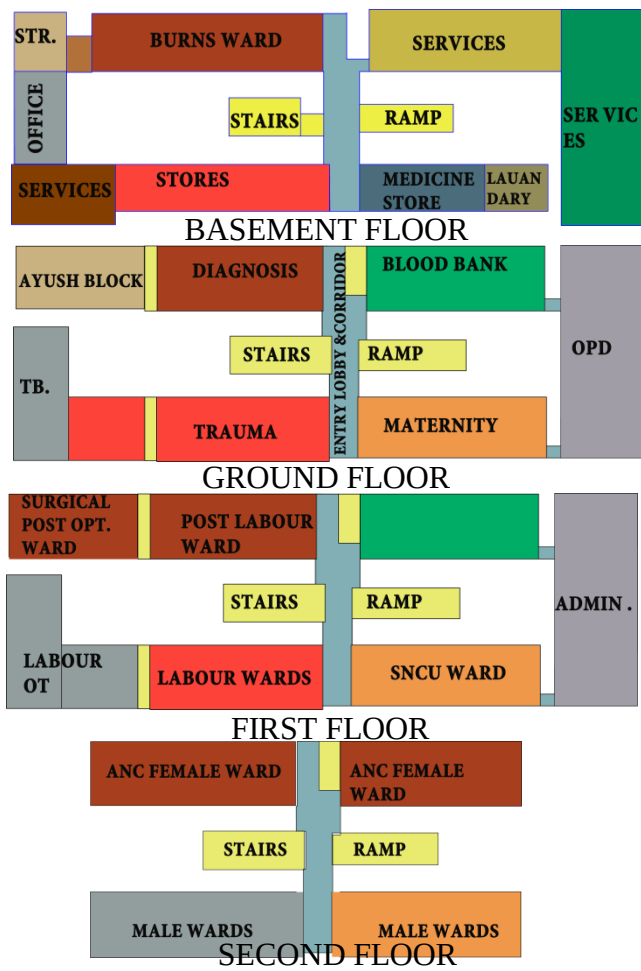


TYPES OF ZONES IN HOSPITAL

A hospital is divided into diferent zones depending uon functions.
I have tried to evolve my form by interconnecting the departments.
The resulting shape is taken as the form. Also the vernacular
Architecture features have been implemented into the design along
With features of sustainable design.

USE OF GREEN FEATURES IN HOSPITAL

- *Solar pannels on the roof
- * Green roof
- *rain water harvesting system
- *wind tirbines on ythe roof
- that can be used to generate
- Electricity
- * triple galzed windows



S.N.	REQUIREMENTS	STANDARD AS PER MCI NORMS	REQUIRED AREA	S.N.	REQUIREMENTS	STANDARD AS PER MCI NORMS	REQUIRED AREA
1	DEPARTMENT OF ANATOMY			3	DEPARTMENT OF BIOCHEMISTRY		
	DEMONSTRATION ROOM	45 SQM (2 NOS)	60 SQM (2 NOS)		DEMONSTRATION ROOM	45 SQM	60 SQM (2 NOS)
	DESSECTION HALL	250 SQM	350 SQM		PRACTICAL CLASS ROOM	150 SQM	200 SQM
	HISTOLOGY LAB	150 SQM	200 SQM		DEPARTMENTAL LIBRARY/SEMINAR ROOM	30 SQM	30 SQM
	RESEARCH LABORATORY	50 SQM	50 SQM		RESEARCH LABORATORY	50 SQM	50 SQM
	MUSEUM	150 SQM	200 SQM		ACCOMMODATION FOR STAFF		
	DEPARTMENTAL LIBRARY	30 SQM	30 SQM		Professor & Head of the Department	18 SQM	18 SQM
	ACCOMMODATION FOR STAFF				Associate Professor/Reader	15 SQM (2 NOS)	15 SQM (2 NOS)
	Professor & Head of the Department	18 SQM	18 SQM		Asstt. Professor/Lecturers room	20 SQM	20 SQM
	Associate Professor/Reader	15 SQM (2 NOS)	15 SQM (2 NOS)		Tutor/Demonstrators room	15 SQM	15 SQM
	Asstt. Professor/Lecturers room	20 SQM	20 SQM		Department office cum Clerical room	12 SQM	12 SQM
	Tutor/Demonstrators room	15 SQM	15 SQM		Working accommodation for non-teaching staff room	12 SQM	12 SQM
	Department office cum Clerical room	12 SQM	12 SQM	4	DEPARTMENT OF PATHOLOGY		
	Working accommodation for non-teaching staff room	12 SQM	12 SQM		DEMONSTRATION ROOM	45 SQM	60 SQM (2 NOS)
2	DEPARTMENT OF PHYSIOLOGY				HISTOPATHOLOGY / CYTOPATHOLOGY LAB	150 SQM	200 SQM
	DEMONSTRATION ROOM	45 SQM	60 SQM (2 NOS)		CLINICAL PATHOLOGY / HAEMATOLOGY LAB	150 SQM	200 SQM
	AMPHIBIAN LAB	150 SQM	200 SQM		HISTOPATHOLOGY LAB	25 SQM	30 SQM
	MAMMALIAN LAB	60 SQM	80 SQM		CYTOPATHOLOGY LAB	25 SQM	30 SQM
	HAEMATOLOGY LAB	150 SQM	200 SQM		HAEMETOLOGY LAB	25 SQM	30 SQM
	CLINICAL PHYSIOLOGY LAB	60 SQM	90 SQM		MUSEUM	60 SQM	90 SQM
	DEPARTMENTAL LIBRARY	30 SQM	30 SQM		ALTOPSY ROOM	400 SQM	400 SQM

S.N.	REQUIREMENTS	STANDARD AS PER MCI NORMS	REQUIRED AREA	S.N.	REQUIREMENTS	STANDARD AS PER MCI NORMS	REQUIRED AREA
5	DEPARTMENT OF MICROBIOLOGY			7	DEPARTMENT OF FORENSIC MEDICAL INCLUDING TOXICOLOGY		
	DEMONSTRATION ROOM	45 SQM	60 SQM (2 NOS)		DEMONSTRATION ROOM	45 SQM	60 SQM (2 NOS)
	PRACTICAL LABS	150 SQM (2 NOS)	200 SQM (2 NOS)		MUSEUM	150 SQM	175 SQM
	BACTERIOLOGY LAB & PARASITOLOGY LAB	30 SQM (2 NOS)	30 SQM (2 NOS)		LAB FOR EXAMINATIONS	150 SQM	200 SQM
	SEROLOGY LAB & VIRIOLOGY LAB	30 SQM (2 NOS)	30 SQM (2 NOS)		AUTOPSY ROOM	30 SQM	400 SQM
	MYCOLOGY LAB	30 SQM	30 SQM		DEPARTMENTAL LIBRARY/SEMINAR ROOM	30 SQM	30 SQM
	TUBERCULOSIS LAB & IMMUNOLOGY LAB	30 SQM (2 NOS)	30 SQM (2 NOS)		RESEARCH LABORATORY	50 SQM	50 SQM
	MUSEUM	60 SQM	80 SQM		ACCOMMODATION FOR STAFF		
	DEPARTMENTAL LIBRARY	30 SQM	30 SQM		Professor & Head of the Department	18 SQM	18 SQM
	RESEARCH LABORATORY	50 SQM	50 SQM		Associate Professor/Reader	15 SQM (2 NOS)	15 SQM (2 NOS)
	ACCOMMODATION FOR STAFF				Asstt. Professor/Lecturers room	20 SQM	20 SQM
	Professor & Head of the Department	18 SQM	18 SQM		Tutor/Demonstrators room	15 SQM	15 SQM
	Associate Professor/Reader	15 SQM (2 NOS)	15 SQM (2 NOS)		Department office cum Clerical room	12 SQM	12 SQM
	Asstt. Professor/Lecturers room	20 SQM	20 SQM		Working accommodation for non-teaching staff room	12 SQM	12 SQM
	Tutor/Demonstrators room	15 SQM	15 SQM	8	DEPARTMENT OF COMMUNITY MEDICINE		
	Department office cum Clerical room	12 SQM	12 SQM		DEMONSTRATION ROOM	45 SQM	60 SQM (2 NOS)
	Working accommodation for non-teaching staff room	12 SQM	12 SQM		PRACTICAL LAB	150 SQM	200 SQM
6	DEPARTMENT OF PHARMACOLOGY				MUSEUM	100 SQM	125 SQM
	DEMONSTRATION ROOM	45 SQM	60 SQM (2 NOS)		DEPARTMENTAL LIBRARY	30 SQM	30 SQM
	PRACTICAL LABS	150 SQM (2 NOS)	200 SQM (2 NOS)		RESEARCH LABORATORY	50 SQM	50 SQM
	MUSEUM	100 SQM	125 SQM		ACCOMMODATION FOR STAFF		
	DEPARTMENTAL LIBRARY	30 SQM	30 SQM		Professor & Head of the Department	18 SQM	18 SQM
	RESEARCH LABORATORY	50 SQM	50 SQM		Associate Professor/Reader	15 SQM (2 NOS)	15 SQM (2 NOS)
	ACCOMMODATION FOR STAFF				Asstt. Professor/Lecturers room	20 SQM	20 SQM
	Professor & Head of the Department	18 SQM	18 SQM		Tutor/Demonstrators room	15 SQM	15 SQM
	Associate Professor/Reader	15 SQM (2 NOS)	15 SQM (2 NOS)		Department office cum Clerical room	12 SQM	12 SQM
	Asstt. Professor/Lecturers room	20 SQM	20 SQM		Working accommodation for non-teaching staff room	12 SQM	12 SQM
	Tutor/Demonstrators room	15 SQM	15 SQM				
	Department office cum Clerical room	12 SQM	12 SQM				
	Working accommodation for non-teaching staff room	12 SQM	12 SQM				

BUILT UP AREA REQUIREMENTS (100 ADMISSIONS)				
ITEM DETAILS	NO.	AREA (Sq. M.) Each	Total (Sq. m.)	Remarks
(1)	(2)	(3)	(4)	(5)
Administrative Block				
Principal/Dean's Office		36	36	
Staff Room		54	54	
College Council Room		80	80	
Officer Superintendent's Room		10	10	
Office		150	150	
Record Room		100	100	
Examination room		300	300	
Common Room – Boys		100	100	
Girls		100	100	
Cafeteria		200	200	
Central Library		1600	1600	
Lecture Theatres	3	330	990	120 Seating Capacity
	1	660	660	250 Seating Capacity
Auditorium	1	800	800	500-700 Seating Capacity
Common Laboratories	6	170	1020	
	2	75	150	
Central Research Laboratory	1	100	100	
Department Total			6450	
DEPARTMENTS				
Anatomy				
Demonstration Room	2	45	90	Accommodate at least 50-60 Students
Dissection Hall	1	250	250	Accommodate at least 100 Students
Museum		150	150	Accommodate 25 students to study in the museum
Accommodation for Staff				
Professor & Head	1	18	18	
Asso. Prof./Reader	1	15	15	
Asst. Prof./Lecturer	2	20	40	
Physiology including Bio-physiology				
Demonstration Room	1	45	45	Accommodate at least 50-60 Students
Accommodation for Staff				
Professor & Head	1	18	18	
Asso. Prof./Reader	1	15	15	
Asst. Prof./Lecturer	1	12	12	
Tutor/Demonstrators	4	15	60	
Department Office/Clerical Room	1	12	12	
Non-teaching staff room	1	12	12	
Department Total			157	
Biochemistry				
Demonstration Room	1	45	45	Accommodate at least 50-60 Students
Accommodation for Staff				
Professor & Head	1	18	18	
Asso. Prof./Reader	1	15	15	
Asst. Prof./Lecturer	1	12	12	
Tutor/Demonstrators	4	15	60	
Department Office/Clerical Room	1	12	12	
Non-teaching staff room	1	12	12	
Department Total			174	
Pathology				
Demonstration Room	1	45	45	Accommodate at least 50-60 Students
Museum		150	150	
Accommodation for Staff				
Professor & Head	1	18	18	
Asso. Prof./Reader	2	15	30	
Asst. Prof./Lecturer	3	12	36	
Tutor/Demonstrators	5	15	75	
Department Office/Clerical Room	1	12	12	
Non-teaching staff room	1	12	12	
Department Total			378	

BUILT UP AREA REQUIREMENTS (100 ADMISSIONS)

ITEM DETAILS	NO.	AREA (Sq. M.) Each	Total (Sq. m.)	Remarks
(1)	(2)	(3)	(4)	(5)
Blood Bank (includes)		100	100	
(a) Registration & Medical Examination Room				
(b) Blood Collection Room				
(c) Room for Laboratory for Blood Group Serology				
(d) Room for Lab. For Transmissible diseases like Hepatitis, Syphilis, Malaria, HIV antibodies, etc.				
(e) Sterilisation and Washing Room				
(f) Refreshment Room				
(g) Store and Records Rooms				
Microbiology				
Service Laboratory	7	25	175	Each for Bacteriology, Serology, Virology, Parasitology, Mycology, Tuberculosis and Immunology
Museum		100	100	
Accommodation for Staff				
Professor & Head	1	18	18	
Asso. Prof./Reader	1	15	15	
Asst. Prof./Lecturer	2	12	24	
Tutor/Demonstrators	3	15	45	
Department Office/Clerical Room	1	12	12	
Non-teaching staff room	1	12	12	
Department Total			401	
Pharmacology				
Demonstration Room	1	45	45	Accommodate at least 50-60 Students
Museum		100	100	
Accommodation for Staff				
Professor & Head	1	18	18	
Asso. Prof./Reader	1	15	15	
Asst. Prof./Lecturer	2	12	24	
Tutor/Demonstrators	2	15	30	
Department Office/Clerical Room	1	12	12	
Non-teaching staff room	1	12	12	
Department Total			256	
Forensic Med. Including Toxicology				

ITEM DETAILS	NO.	AREA (Sq. M.) Each	Total (Sq. m.)	Remarks
(1)	(2)	(3)	(4)	(5)
Eclampsia Room		75	75	
Laundry		10	10	
Total for Labour Room			435	
Radio-Diagnosis				
Room for 300mA, 500mA, 800mA		36	36	
IITV System, Fluoroscopy System		15	15	
Ultrasound room		15	15	
Room for 60mA Mobile X-Ray System		15	15	
Accommodation for CT Scan System		20	20	
Store Room		25	25	
Museum		25	25	
Waiting Room		40	40	
Department Total			176	
Anaesthesiology				
Accommodation for the Anaesthesia Department in Operation Theatres				
Office for HOD & Heads of Units		20	20	
Accommodation for other unit staff		20	20	
Clinical Demonstration Rooms		20	20	
Department Total			60	
Optional Departments				
Radiotherapy				
Teletherapy Unit		100	100	
Intracavitary Treatment room		50	50	
Endocavitary surface mould therapy room		50	50	
Planning Room		50	50	
Room for metalling treatment		50	50	
Record Room		100	100	
Medical Physics Lab.		50	50	
Out patient waiting room		200	200	
Day care ward for short chemotherapy/radiotherapy		70	70	
Department Total			720	
Physical Medicine & rehabilitation		1500	1500	

HOSPITAL BUILDING ---

GROUND FLOOR AREA -5977 SQ MT

FIRST FLOOR AREA -5977 SQ MT

SECOND FLOOR AREA -4617 SQ MT

THIRD FLOOR AREA -4617 SQ MT

FOURTH FLOOR AREA - 4617 SQ MT

FIFTH FLOOR AREA - 2136 SQ MT

TOTAL BUILT UP - 27941 SQ MT

ITEM DETAILS	NO.	AREA (Sq. M.) Each	Total (Sq. m.)	Remarks
(1)	(2)	(3)	(4)	(5)
Demonstration Room	1	45	45	Accommodate at least 50-60 Students
Autopsy Block		400	400	
Museum		100	100	
Accommodation for Staff				
Professor & Head	1	18	18	
Asso. Prof./Reader	1	15	15	
Asst. Prof./Lecturer	1	12	12	
Tutor/Demonstrators	2	15	30	
Department Office/Clerical Room	1	12	12	
Non-teaching staff room	1	12	12	
Department Total			629	
Community Medicine				
Museum		150	150	
Primary Health Centre/Rural Health Training Centre				
Urban Health Training Centre				
Accommodation for Staff				
Professor & Head	1	18	18	
Asso. Prof./Reader	2	15	30	
Asst. Prof./Lecturer	2	15	30	
Statistician-cum-Lecturer	1	12	12	
Epidemiologist-cum-Lecturer	1	12	12	
Tutor/Demonstrators	1	15	15	
Department Office/Clerical Room	1	12	12	
Non-teaching staff room	1	15	15	
Department Total			294	
COLLEGE TOTAL			9486	
Teaching Hospital				
Dean's Room		36	36	
Medical Superintendent's Room		36	36	
Hospital offices for the supportive staff		150	150	
Waiting space for visitors		300	300	
Enquiry office		50	50	
Reception		300	300	
Store Rooms		500	500	
Central Medical Record Section		200	200	
Linen Rooms		500	500	
Hospital & Staff Committee Room		60	60	

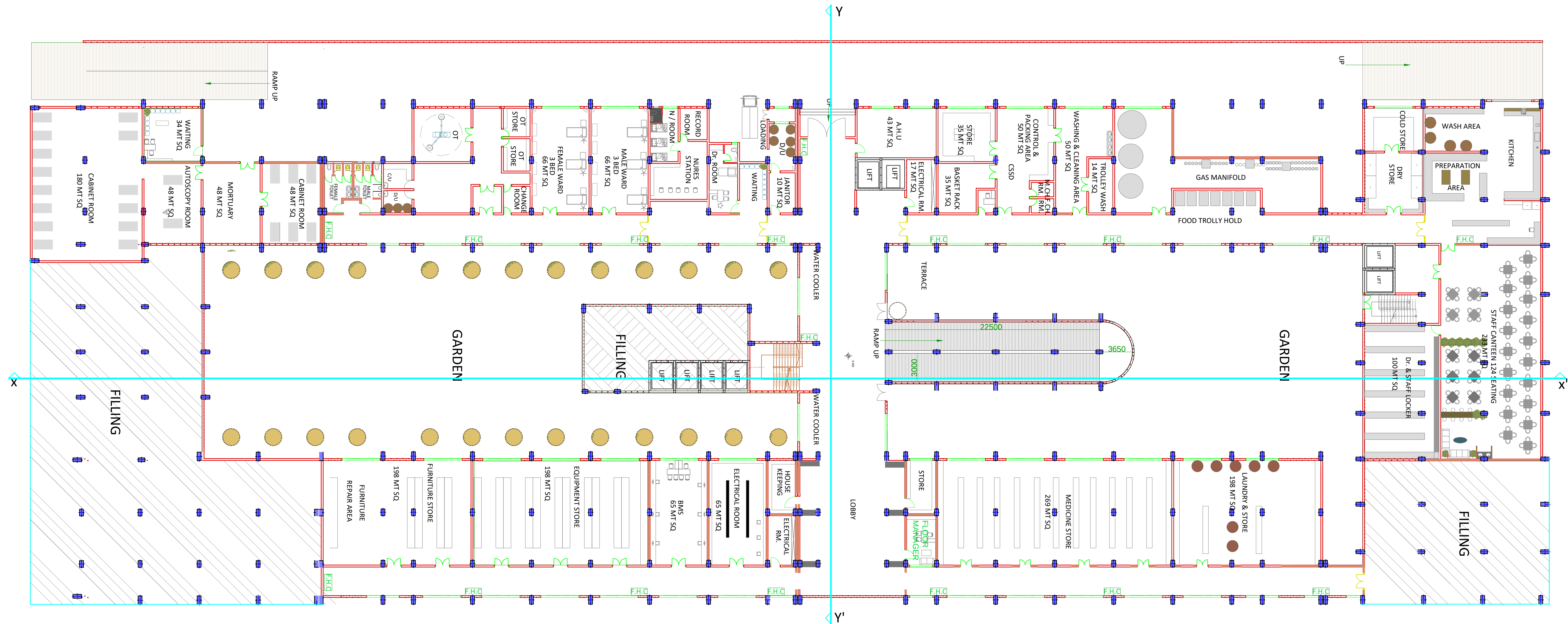
BUILT UP AREA REQUIREMENTS (100 ADMISSIONS)

ITEM DETAILS	NO.	AREA (Sq. M.) Each	Total (Sq. m.)	Remarks
(1)	(2)	(3)	(4)	(5)
Clinical Departments - Outdoor		6500	6500	
Waiting/reception space rooms for patients and attendants				
Enquiry and record room				
Examination rooms and case demonstration rooms for each	4			For each department
Dispensary				
Dressing room in surgery & its specialities				
Refraction rooms, dark rooms, dressing rooms in Ophthalmic Deptt.				
Plaster rom, plaster cutting room etc., in Orthopaedics Deptt.				
Sound proof audiometry room, ENG Lab., speech therapy rooms in ENT Deptt.				
Child welfare, immunization room etc. in paediatrics Deptt.				
Antenatal, family welfare, sterility cancer detection clinics in OBG Deptt.				
Dental Section				
OPD TOTAL			6500	
HOSPITAL TOTAL			21323	
Residential Quarters/Hostels				
Qtrs. @20% teaching 20% of		4400	4400	
Qtrs. @ 20% Non teaching 20% of		3600	3600	
Nurses @ 20%		4500	4500	
Residents @ 100 %		3000	3000	
Interns @ 100 %		2700	2700	
Hostels for 375 students (i.e. @ 75% of 500)			3375	
TOTAL RESIDENTIAL COMPLEX TOTAL			21575	
ADD 15 %			7858	
GRAND TOTAL			60242	

GROUND AREA COVERED (HOSPITAL BUILDING)- 5977 SQMT

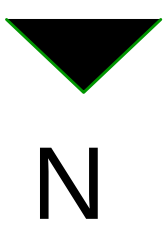
NO. OF FLOORS - 5

REQUIRED AREA ACCORDING TO -
21575 SQ MT + 40 CIRCULATION AREA
NORMS AREA
(30,205 SQ MT)



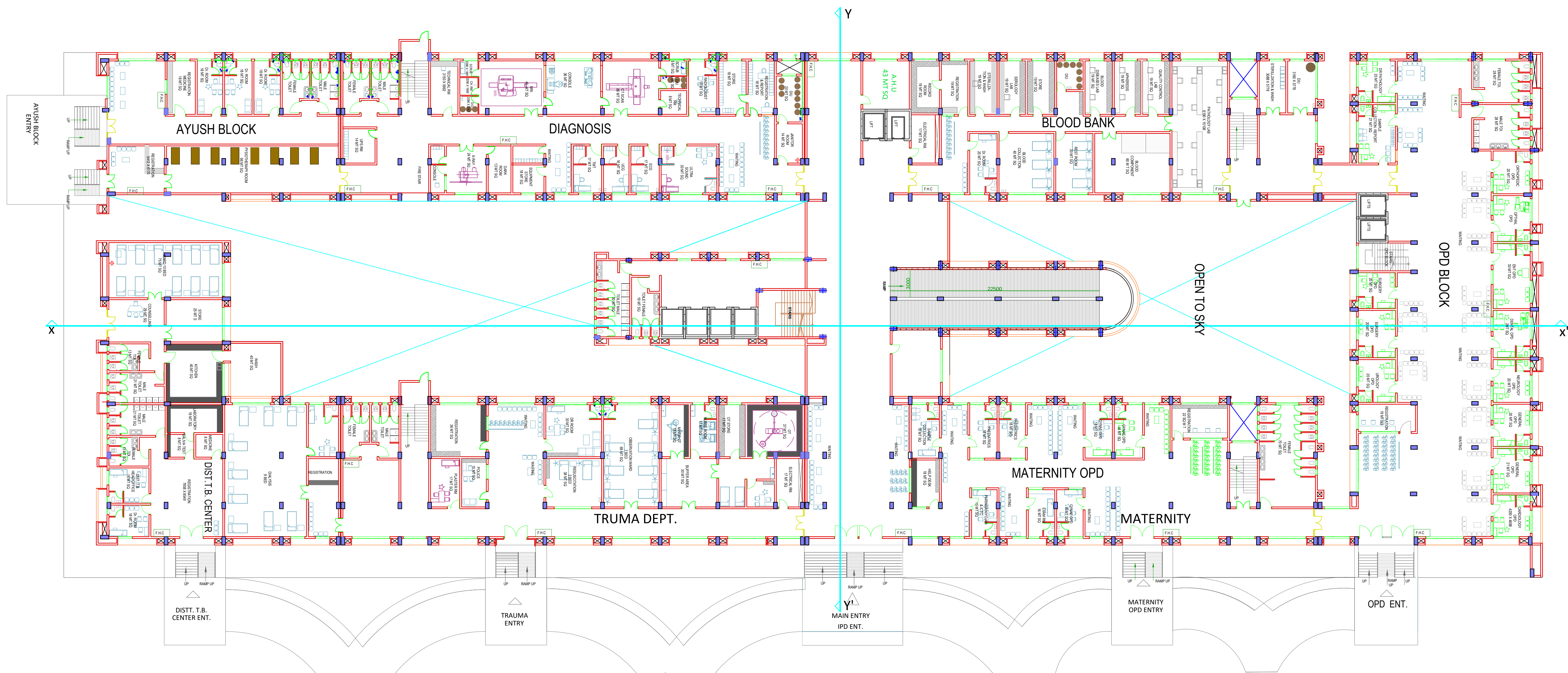
BASEMENT FLOOR

THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR (HOSPITAL BLOCK)
(UTTAR PRADESH)



AAYUSH KHARE
B.ARCH
V YEAR(X SEM)
BBDU

SIGN



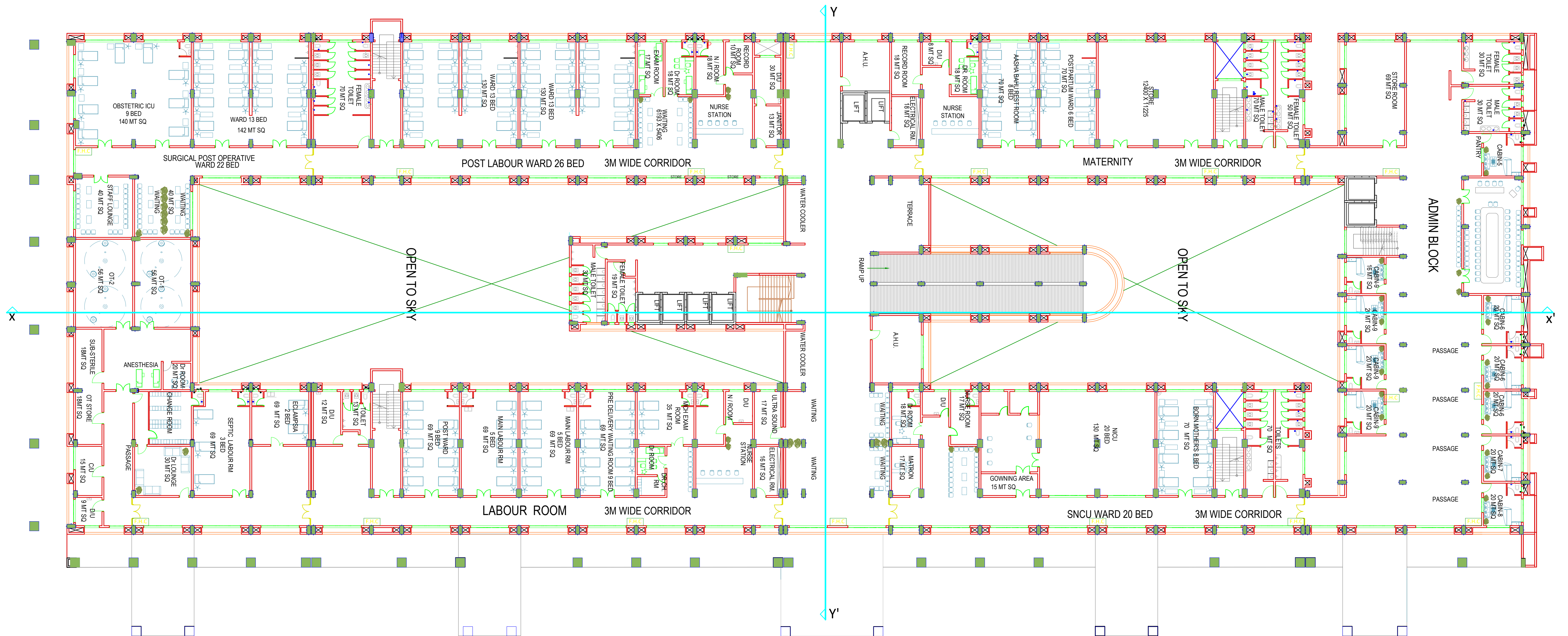
GROUND FLOOR

THESIS 2019-20
 MEDICAL COLLEGE AT AMARPUR (HOSPITAL BLOCK)
 (UTTAR PRADESH)



AAYUSH KHARE
 B.ARCH
 V YEAR(X SEM)
 BBDU

SIGN



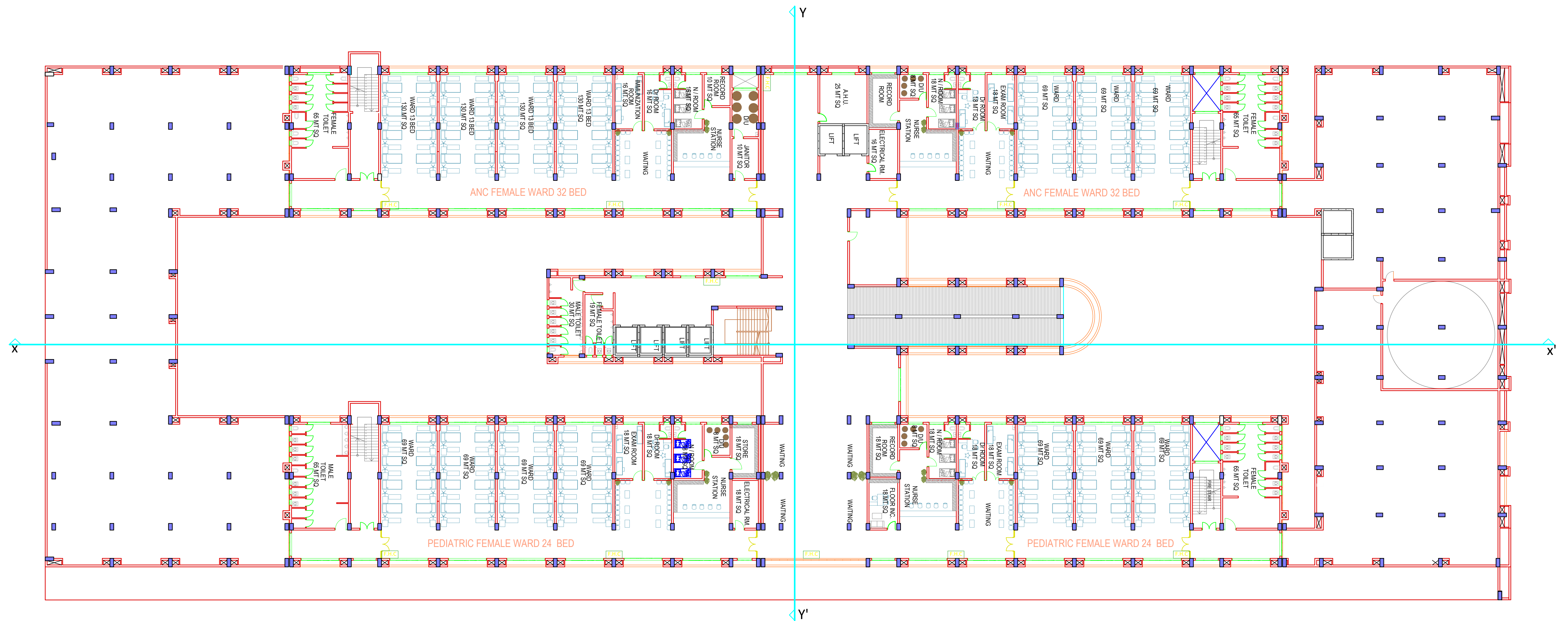
FIRST FLOOR

THESIS 2019-20
 MEDICAL COLLEGE AT AMARPUR (HOSPITAL BLOCK)
 (UTTAR PRADESH)



AAYUSH KHARE
 B.ARCH
 V YEAR(X SEM)
 BBDU

SIGN



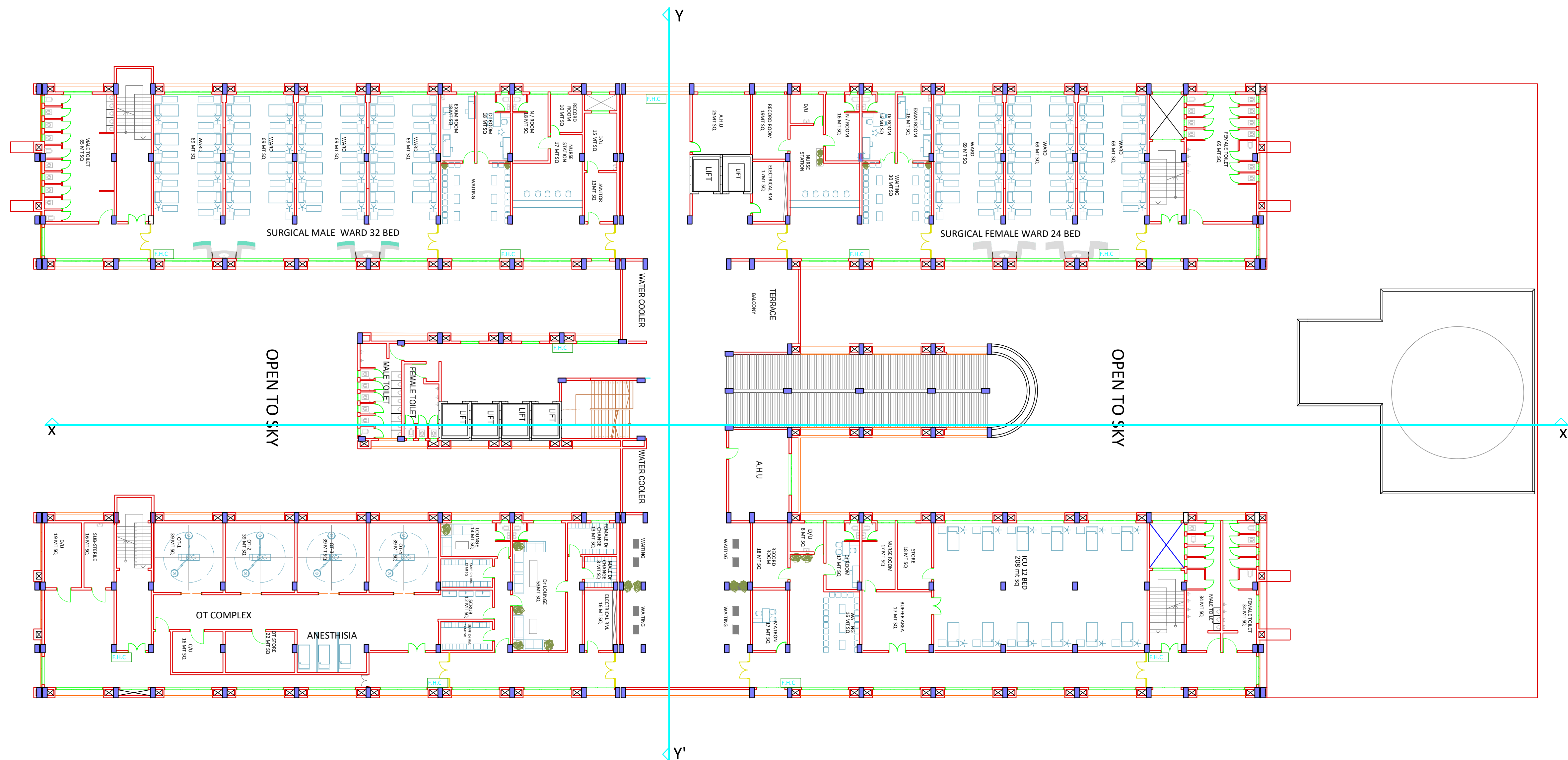
SECOND FLOOR

THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR (HOSPITAL BLOCK)
(UTTAR PRADESH)



AAYUSH KHARE
B.ARCH
V YEAR(X SEM)
BBDU

SIGN

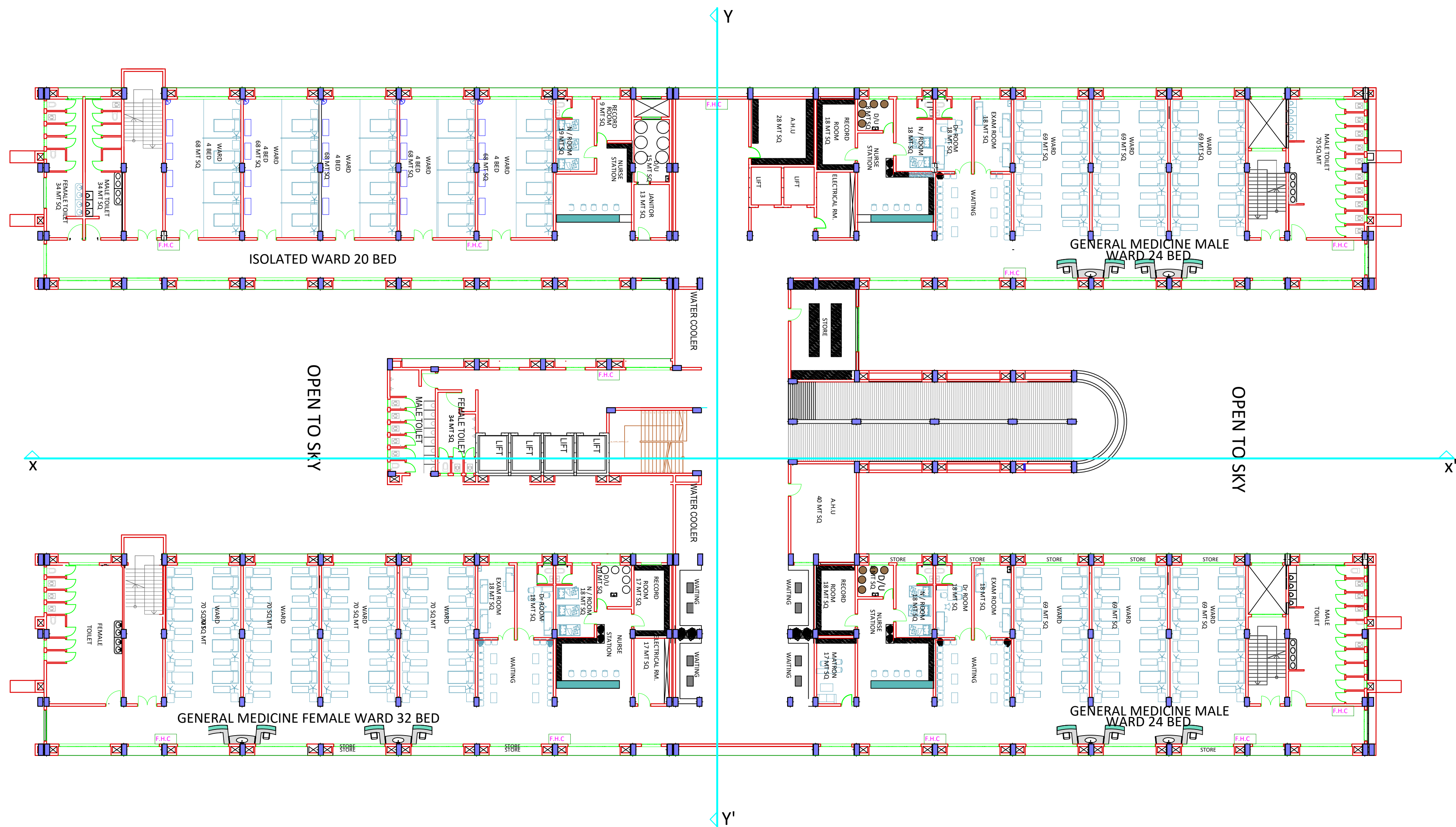


THIRD FLOOR

THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR(HOSPITAL BLOCK)
(UTTAR PRADESH)



AAYUSH KHARE	SIGN
B.ARCH	
V YEAR(X SEM)	
BBDU	



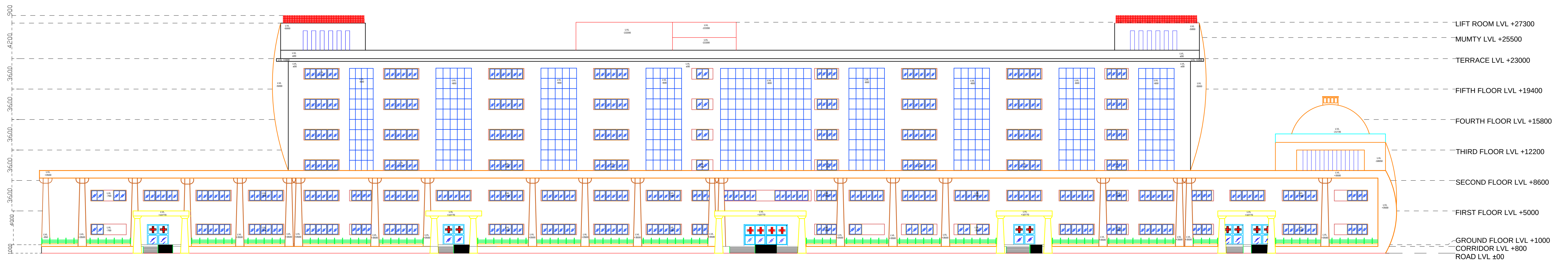
FOURTH FLOOR

THESIS 2019-20
 MEDICAL COLLEGE AT AMARPUR(HOSPITAL BUILDING)
 (UTTAR PRADESH)

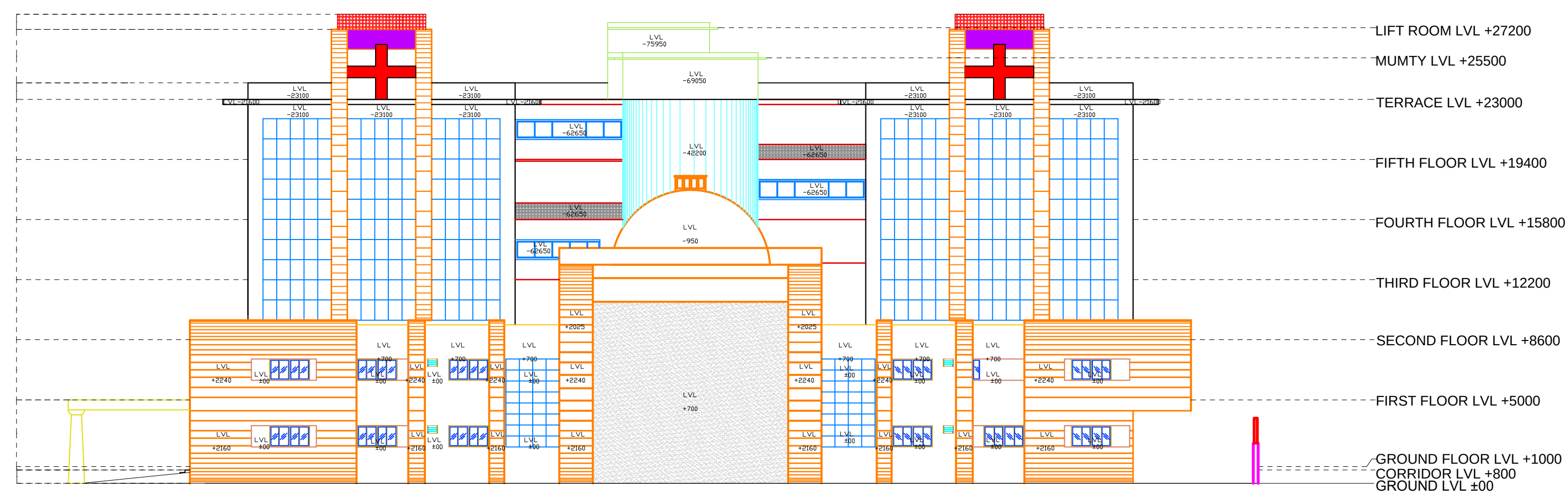


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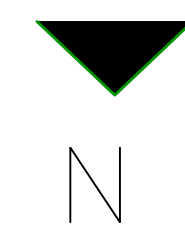


RIGHT SIDE ELEVATION

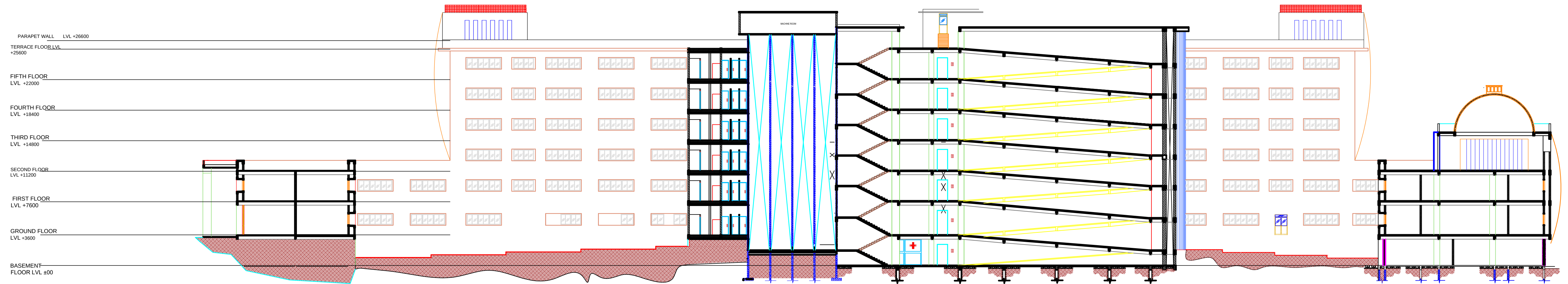


FRONT ELEVATION

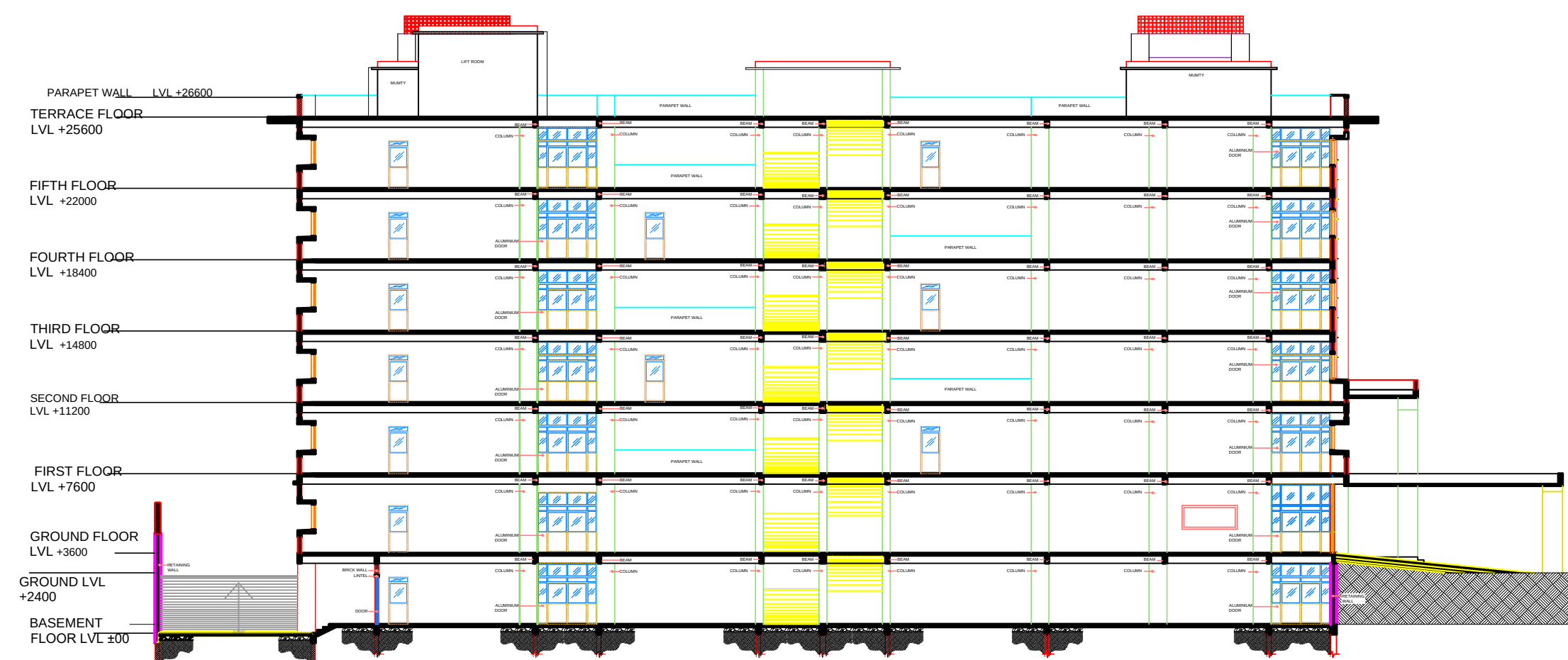
THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR(HOSPITAL BLOCK)
(UTTAR PRADESH)



AAYUSH KHARE	SIGN
B.ARCH	
V YEAR(X SEM)	
BBDU	



SECTION XX'

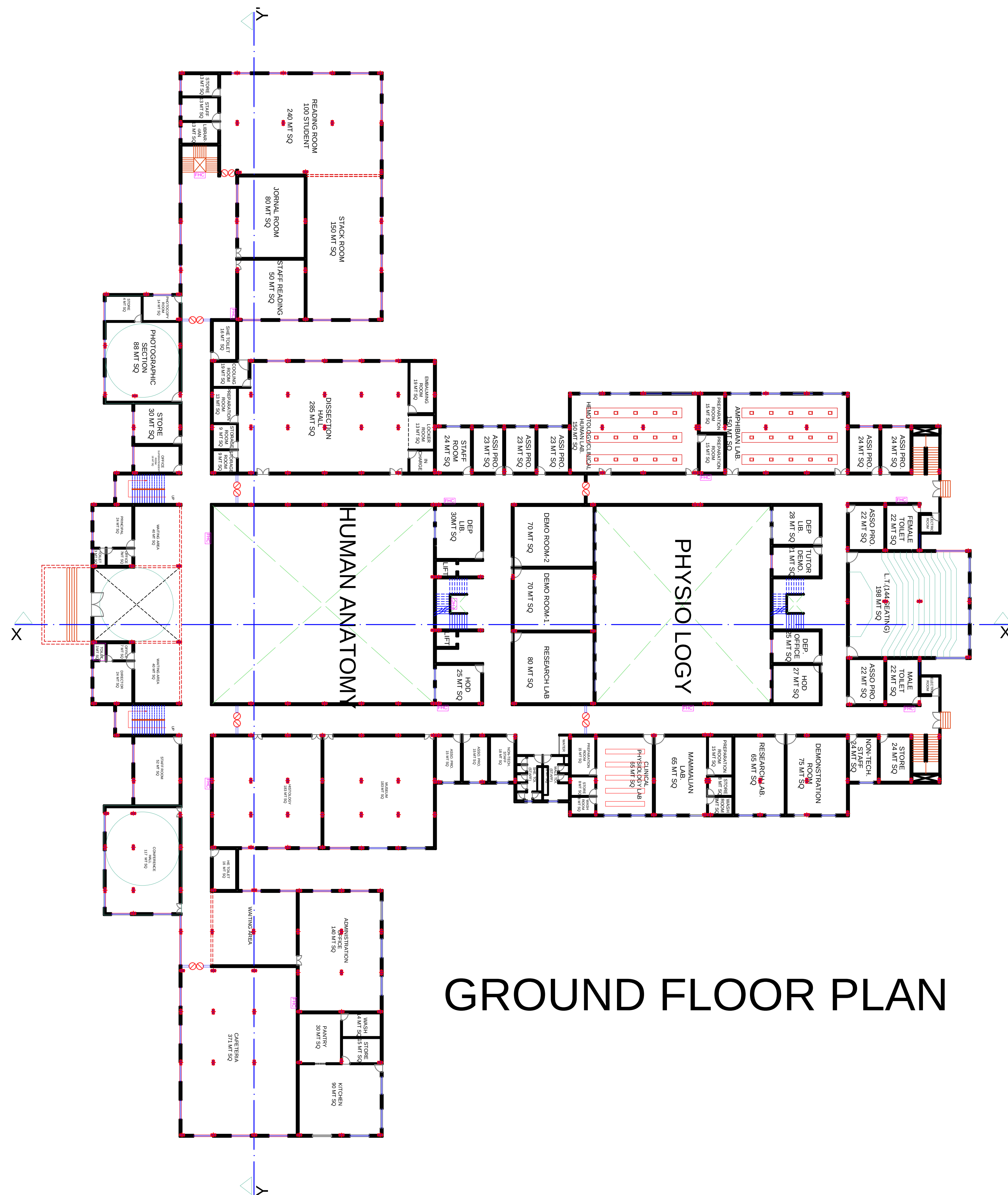


SECTION YY'

THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR (HOSPITAL BLOCK)
(UTTAR PRADESH)

AAYUSH KHARE
B.ARCH
V YEAR(X SEM)
BBDU

SIGN

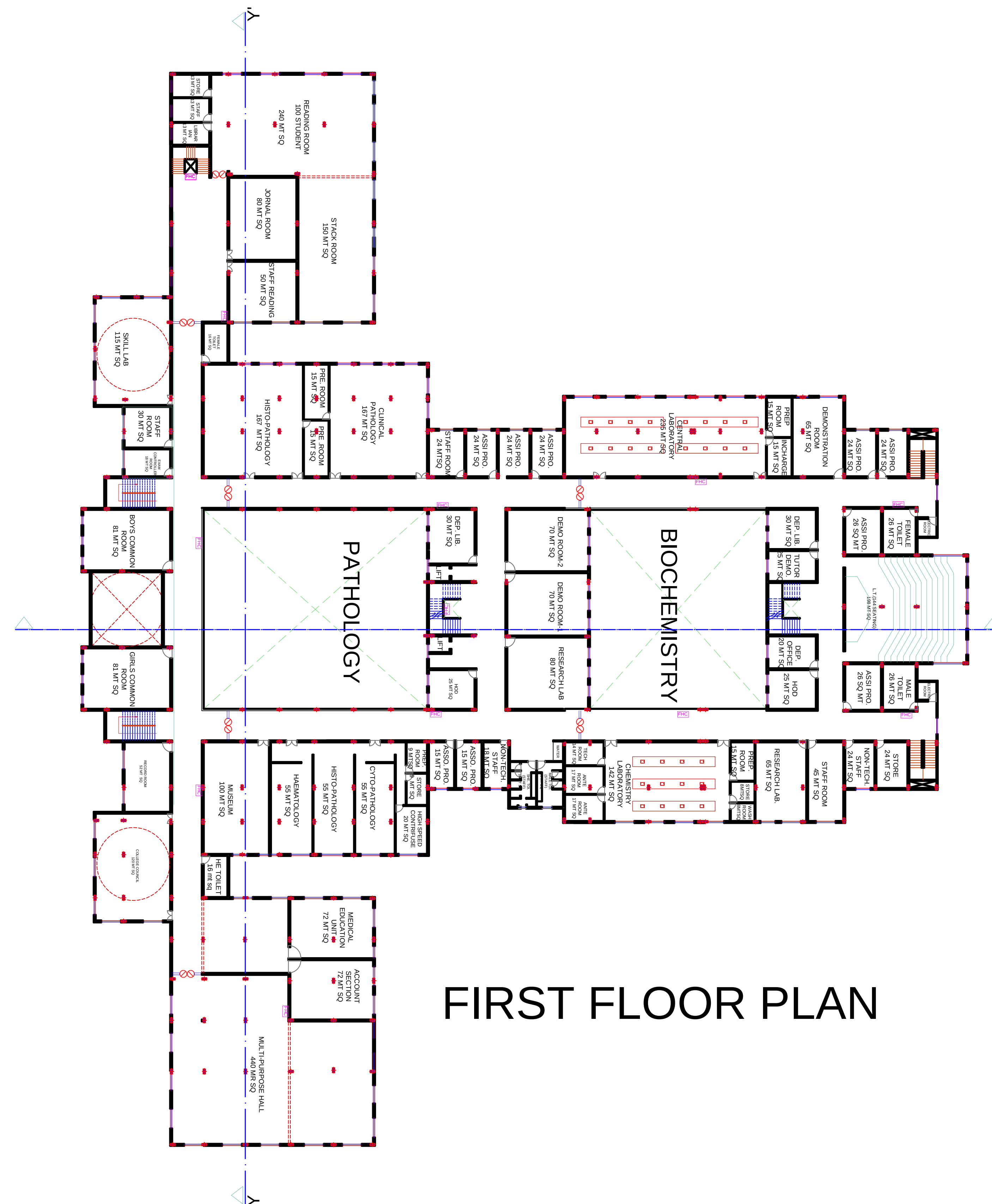


THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR (TEACHING BLOCK)
(UTTAR PRADESH)



AAYUSH KHARE
B.ARCH
V YEAR(X SEM)
BBDU

SIGN

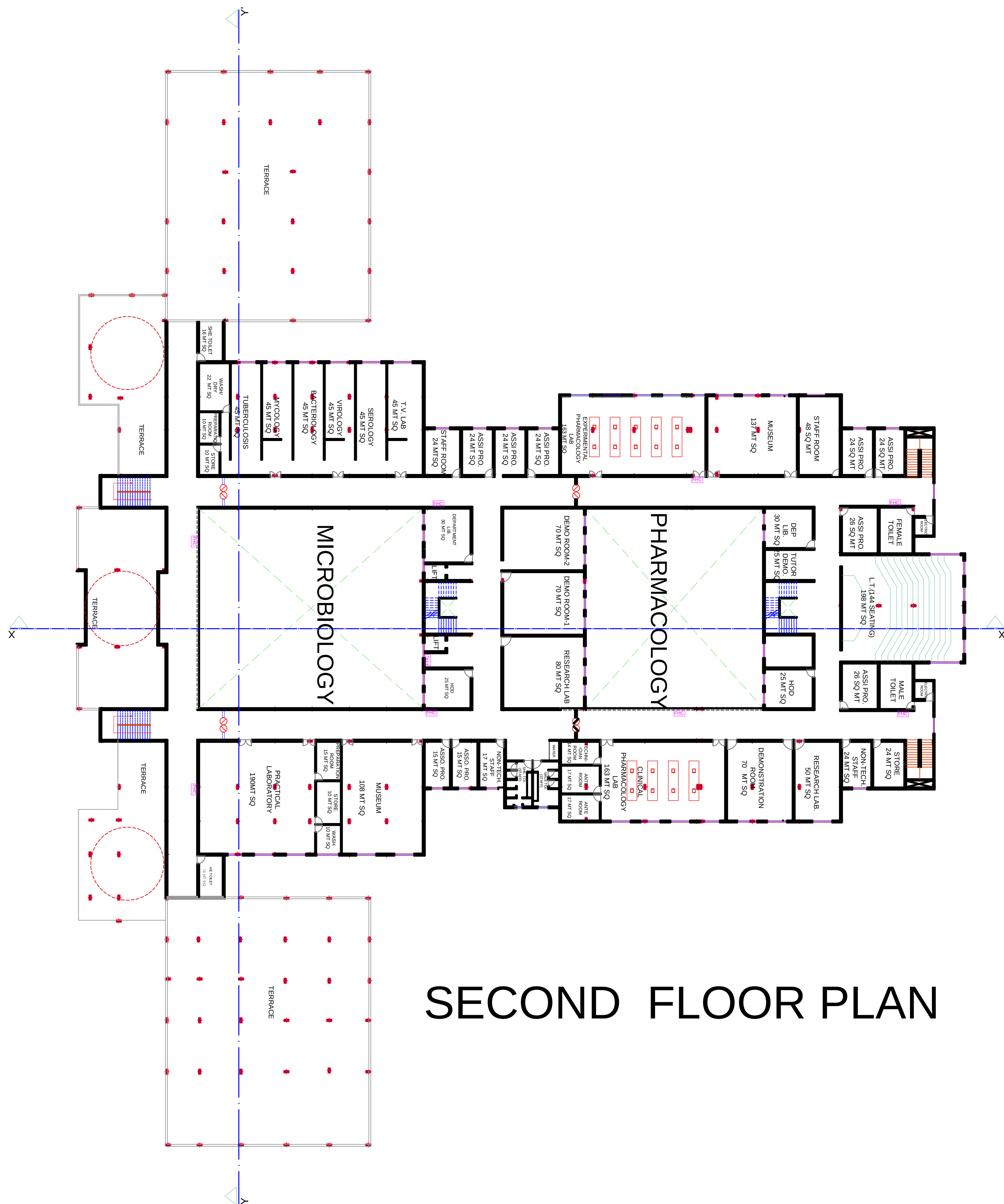


THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR (TEACHING BLOCK)
(UTTAR PRADESH)



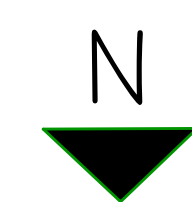
AAYUSH KHARE
B.ARCH
V YEAR(X SEM)
BBDU

SIGN

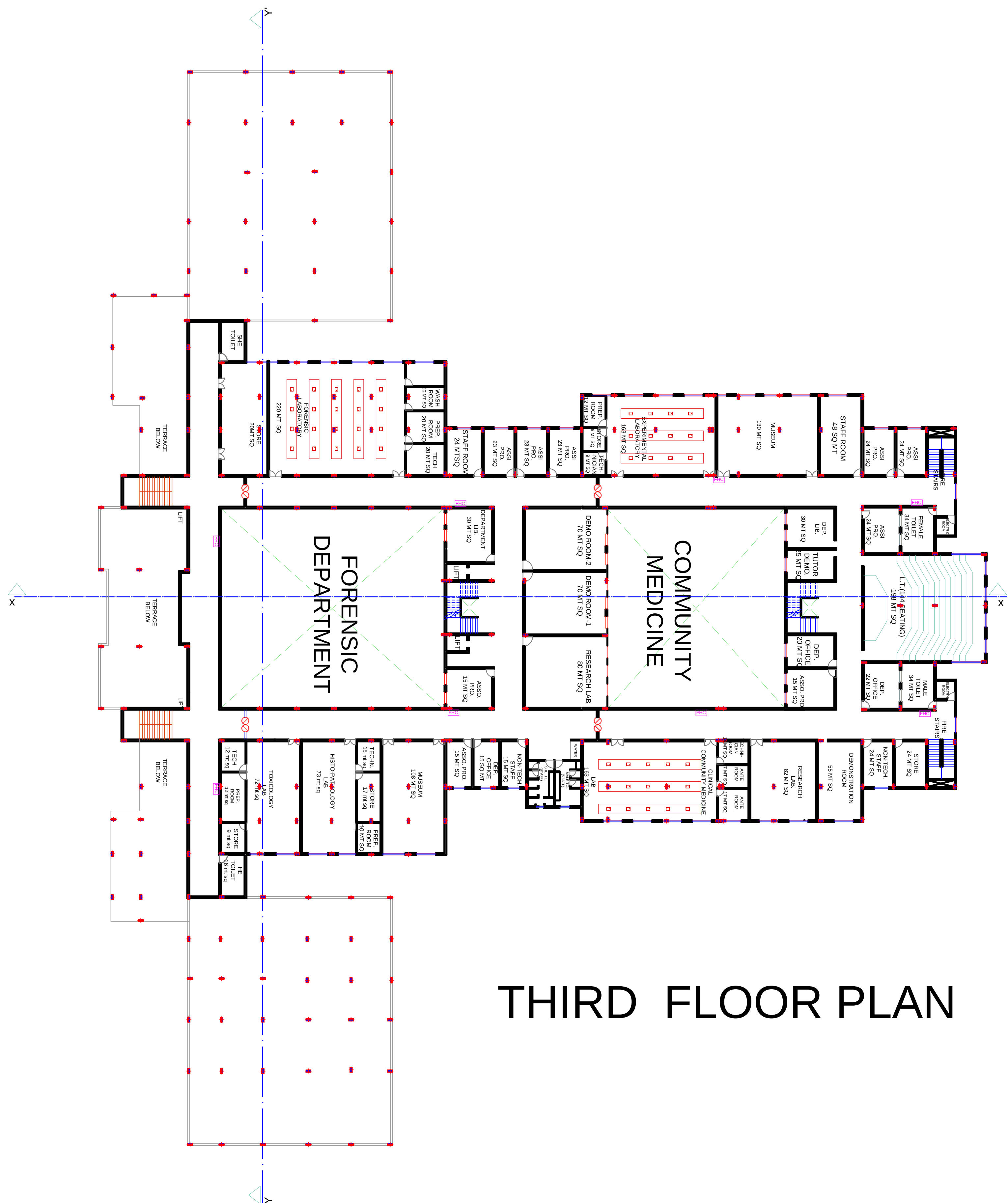


SECOND FLOOR PLAN

THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR (TEACHING BLOCK)
(UTTAR PRADESH)

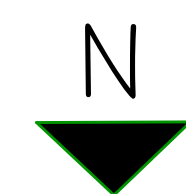


AAYUSH KHARE	SIGN
B.ARCH	
V YEAR(X SEM)	
BBDU	



THIRD FLOOR PLAN

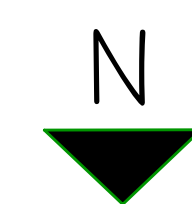
THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR (TEACHING BLOCK)
(UTTAR PRADESH)



AAYUSH KHARE	SIGN
B.ARCH	
V YEAR(X SEM)	
BBDU	

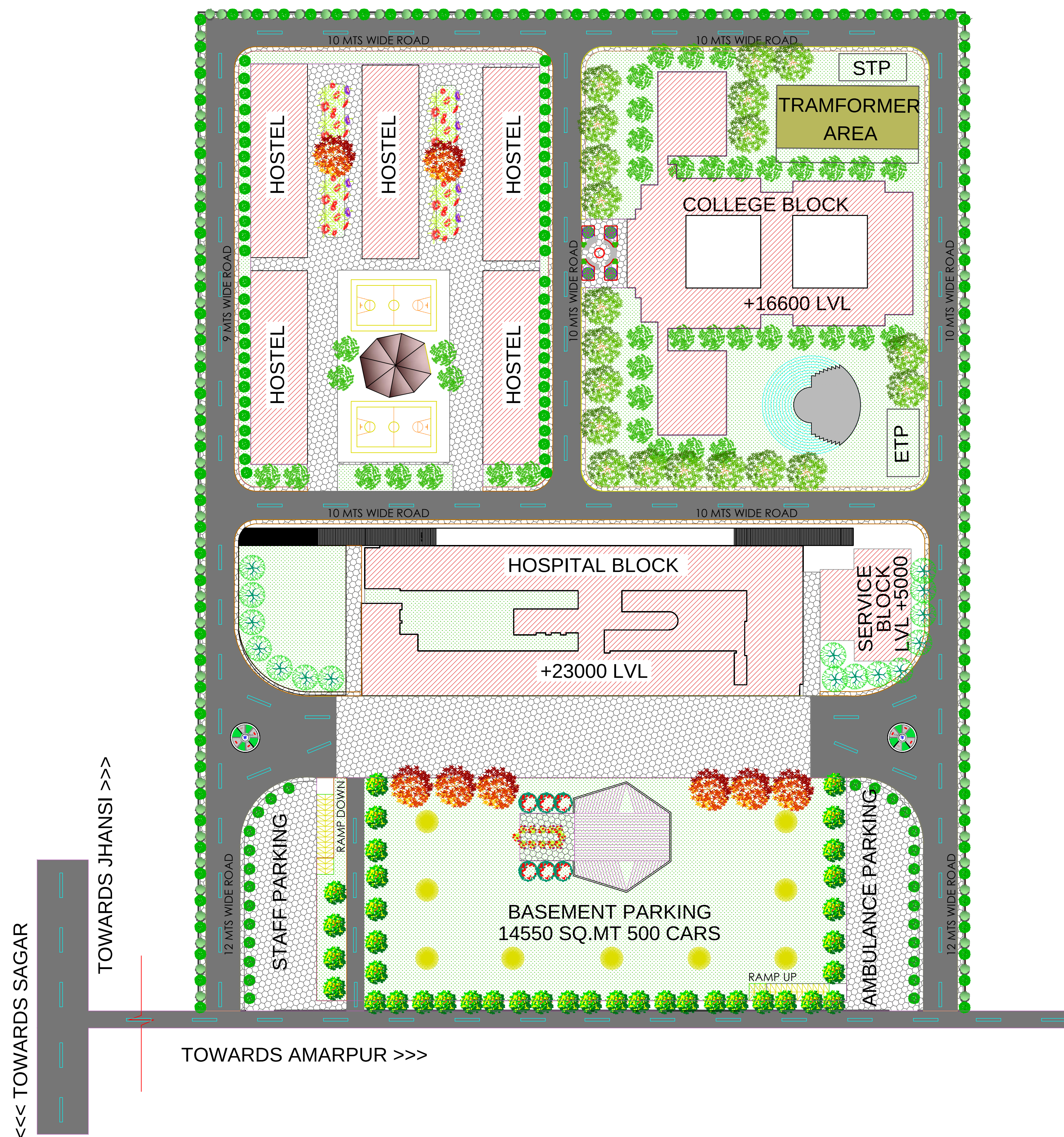


THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR (TEACHING BLOCK)
(UTTAR PRADESH)



AAYUSH KHARE
B.ARCH
V YEAR(X SEM)
BBDU

SIGN



TOTAL SITE AREA -23.16 ACRES (93725 SQ MT)
 PERMISSIBLE GROUND COVERAGE -30%
 PERMISSIBLE F.A.R. -2.5
 ACHIEVED F.A.R. -2.3

AREA OF HOSPITAL BLOCK(GROUND FLOOR) -6122 SQ.M
 AREA OF HOSPITAL BLOCK(FIRST FLOOR) -6122 SQ.M
 AREA OF HOSPITAL BLOCK(SECOND FLOOR) -3702 SQ.M
 AREA OF HOSPITAL BLOCK(THIRD FLOOR) -3702 SQ.M
 AREA OF HOSPITAL BLOCK(FOURTH FLOOR) -3702 SQ.M
 AREA OF HOSPITAL BLOCK(FIFTH FLOOR) -3702 SQ.M

AREA OF ACADEMIC BLOCK -4844 SQ.M.
 AREA OF ACADEMIC BLOCK -4844 SQ.M.
 AREA OF ACADEMIC BLOCK -3410 SQ.M
 AREA OF ACADEMIC BLOCK -3410 SQ.M

TOTAL COVERED AREA - 43,560 SQ.M

GREEN AREA-32560 SQ.M(32%)

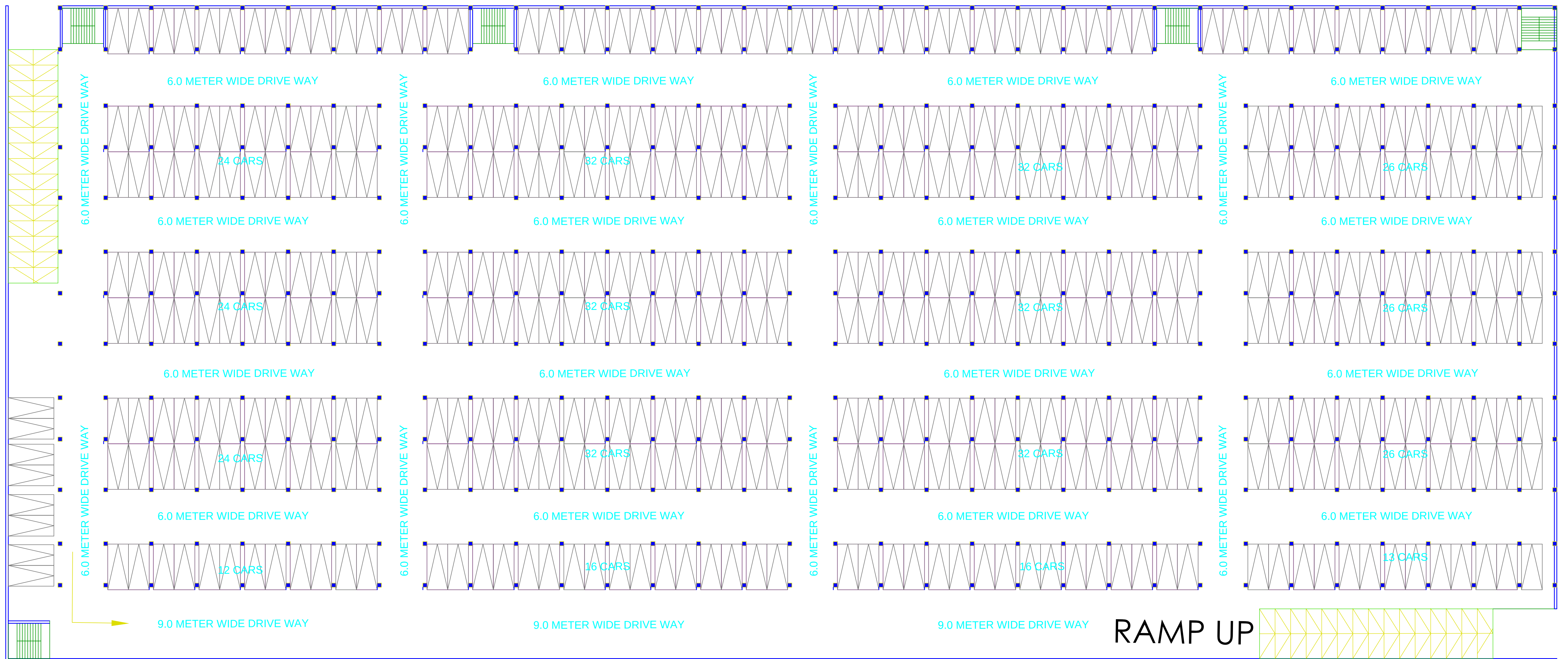
BASEMENT PARKING AREA -14550 SQ.M

THESIS 2019-20
 MEDICAL COLLEGE AT AMARPUR(UTTAR PRADESH)
 SITE PLAN



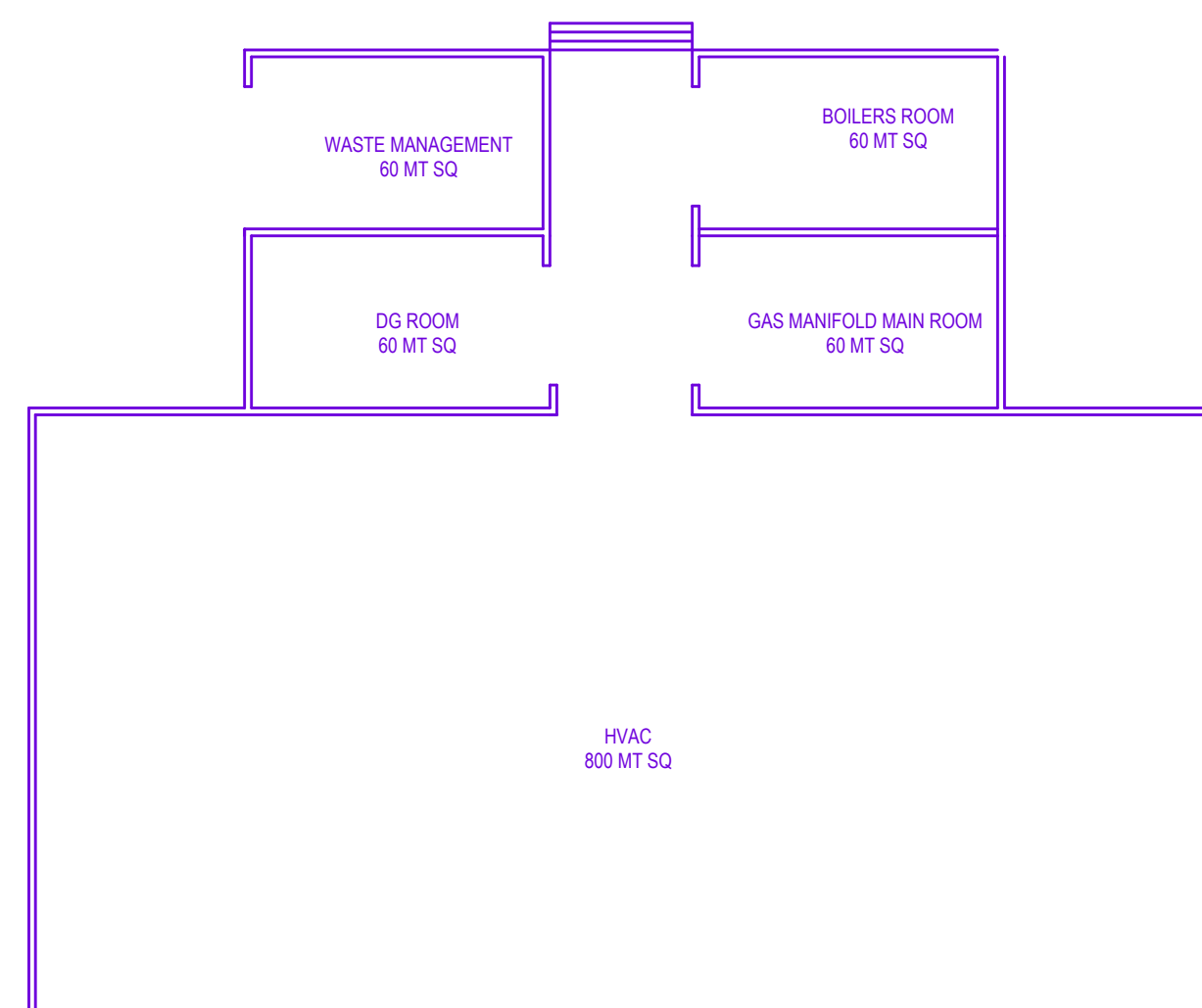
AAYUSH KHARE	SIGN
B.ARCH	
V YEAR(X SEM)	
BBDU LKO	

79002



187063

BASEMENT PLAN



SERVICE BLOCK

THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR (UTTAR PRADESH)
BASEMENT (PARKING)

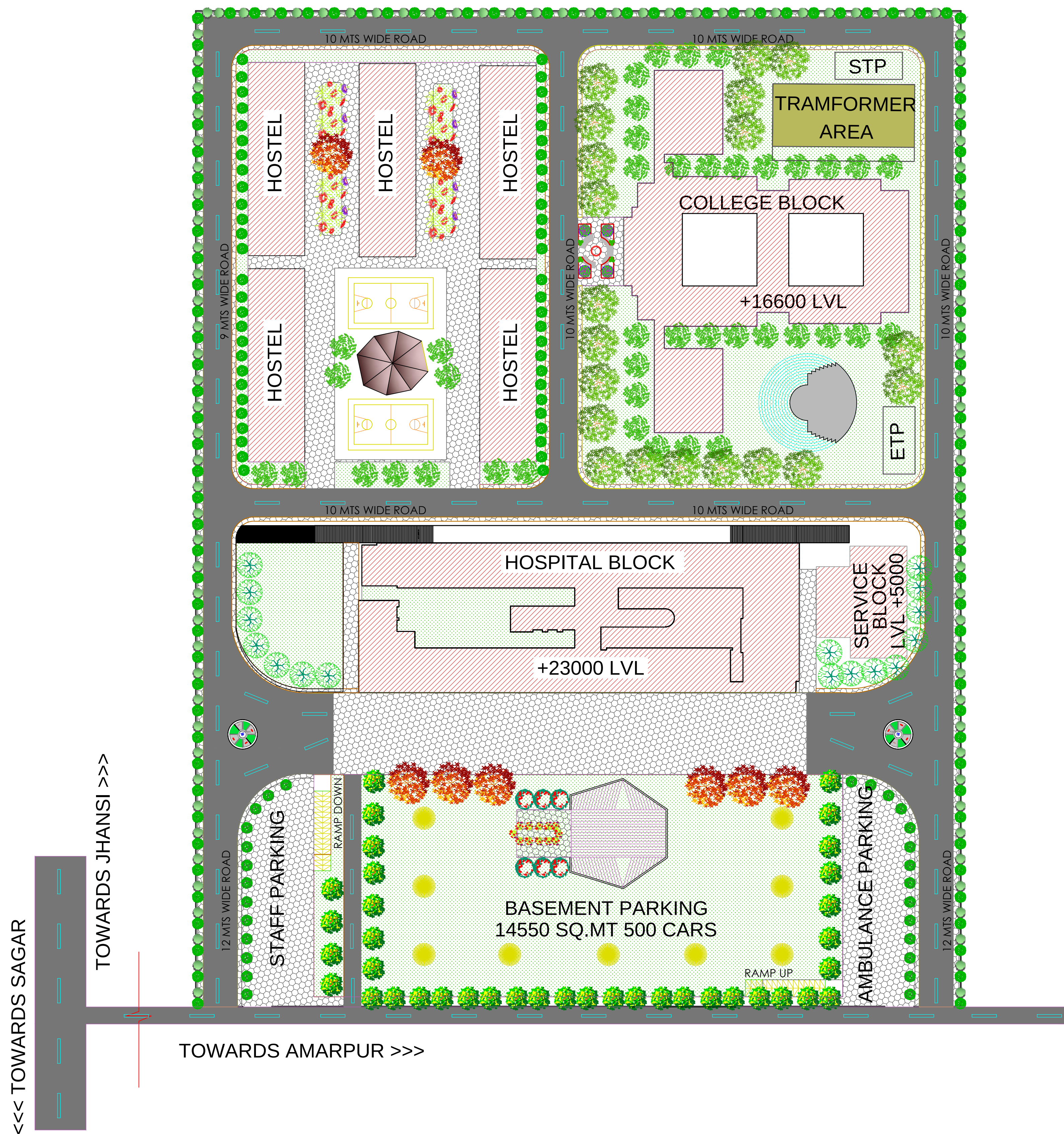
AAYUSH KHARE

B.ARCH

V YEAR(X SEM)

BBDU LKO

SIGN

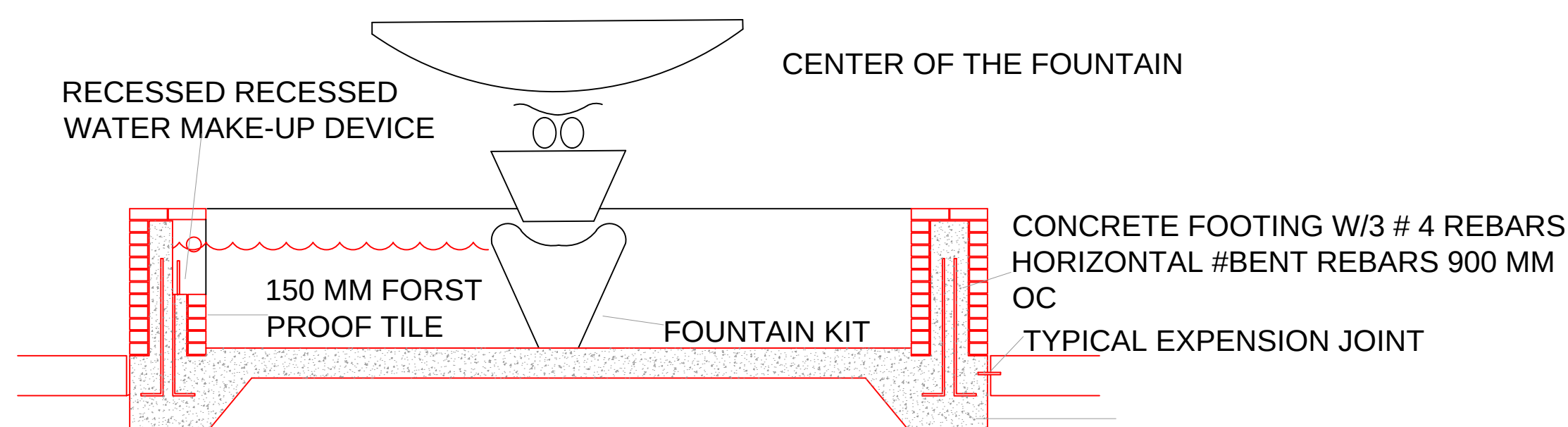
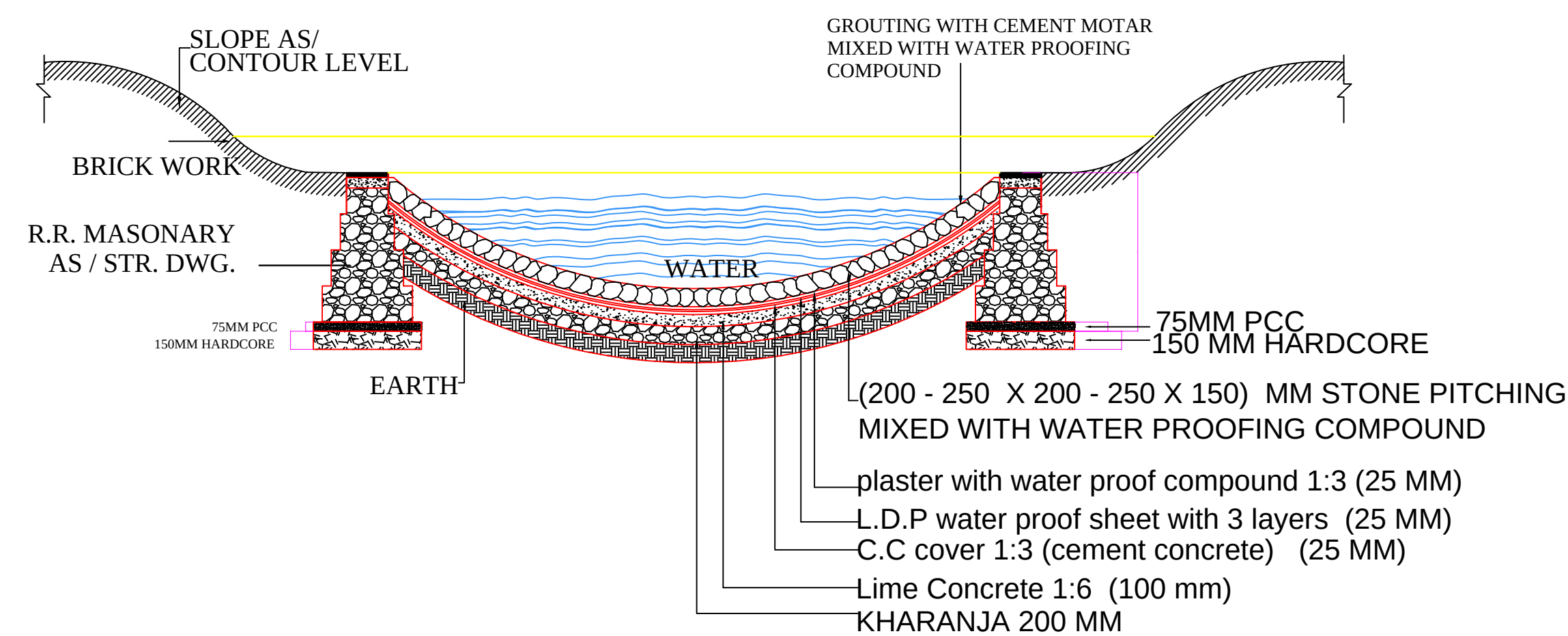
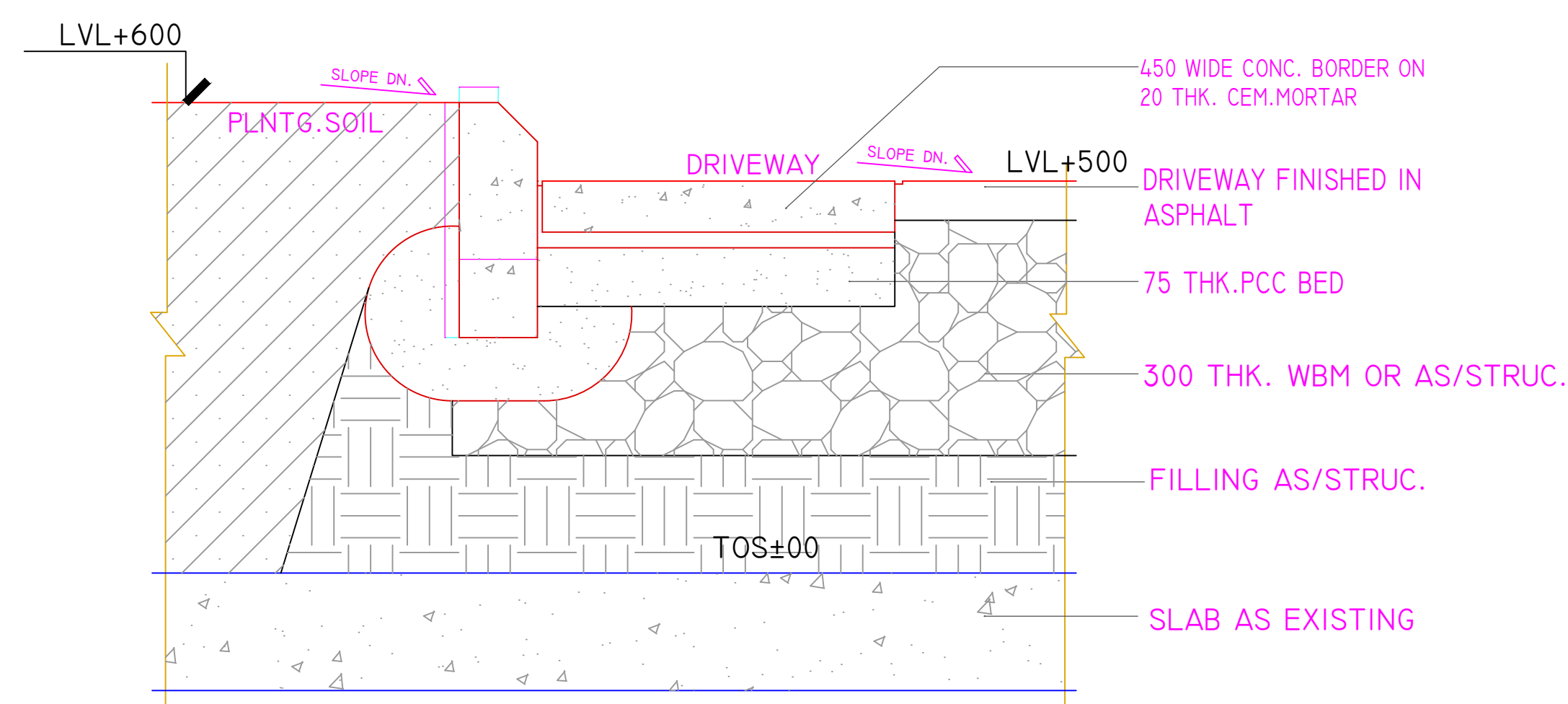


LEGEND	LEGEND	LEGEND
	AZATIRATITA INDICA	NEEM TREE
	AZATIRATITA INDICA	NEEM
	DELONIX REGIA	GULMOHAR
	DELONIX REGIA	BANYAN TREE
	BUTEAMONOSPERMA FRINDOSA	PALAS
	SETCREASEA PURPUREA	PURPLE HEART
	CASSIA FISTULA	AMALTAS

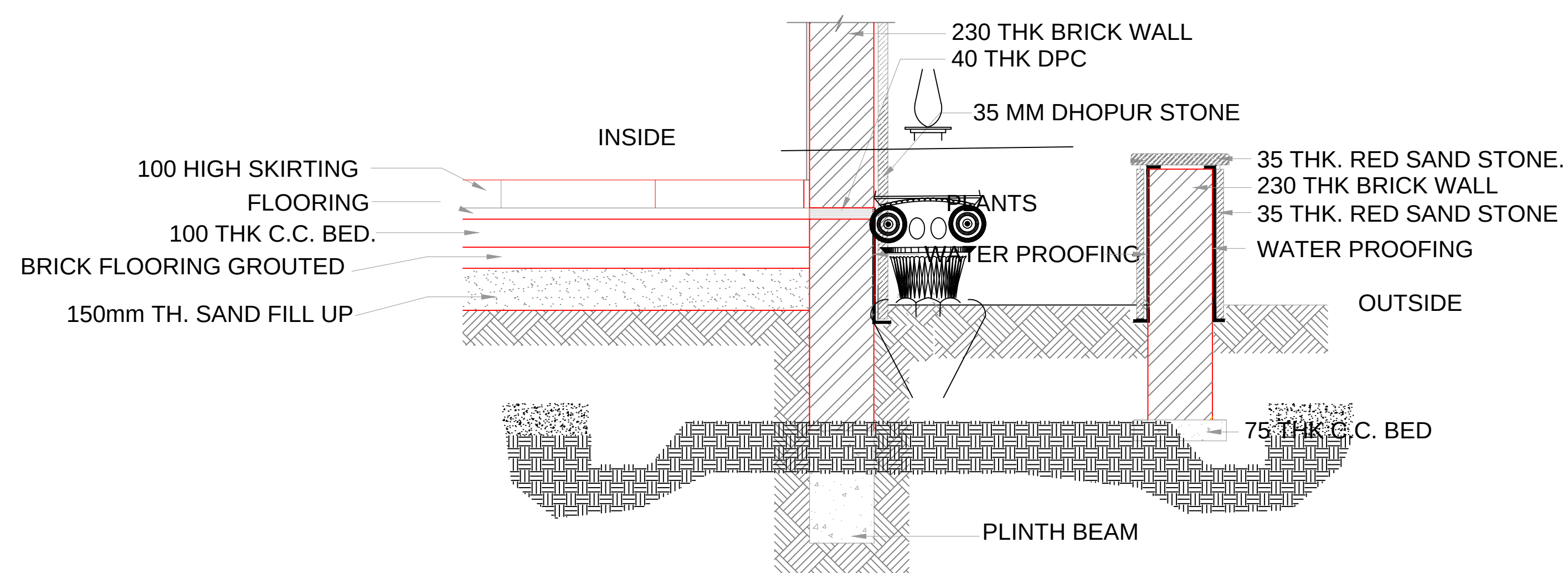
THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR(UTTAR PRADESH)
ELECTIVE 1 (LANDSCAPE)



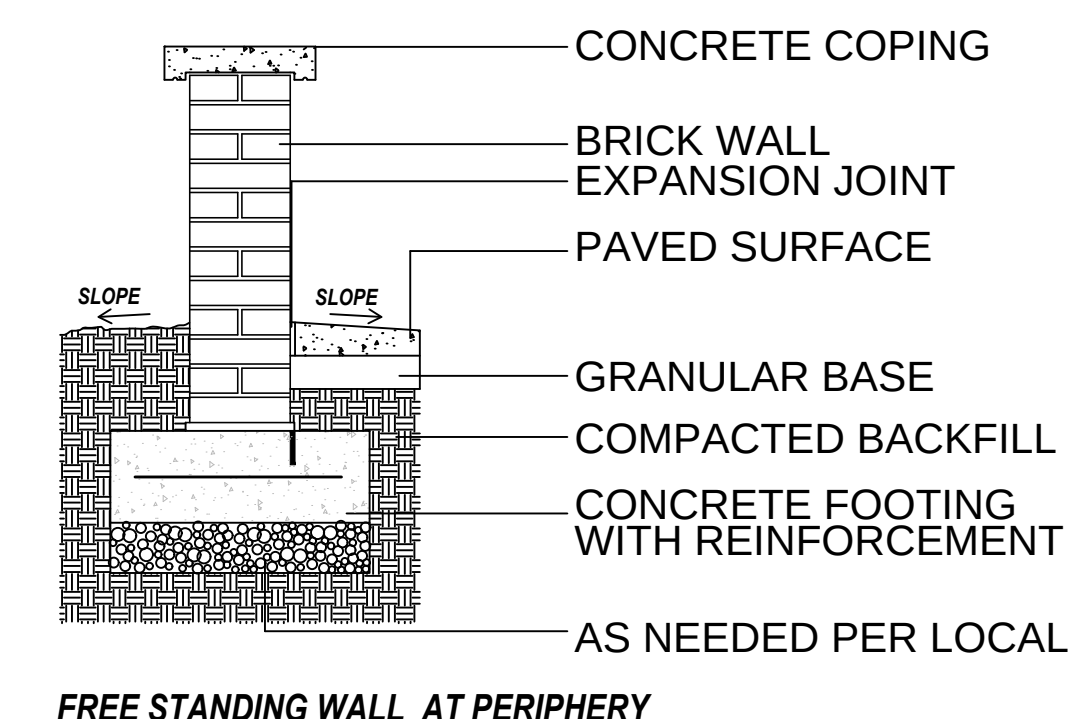
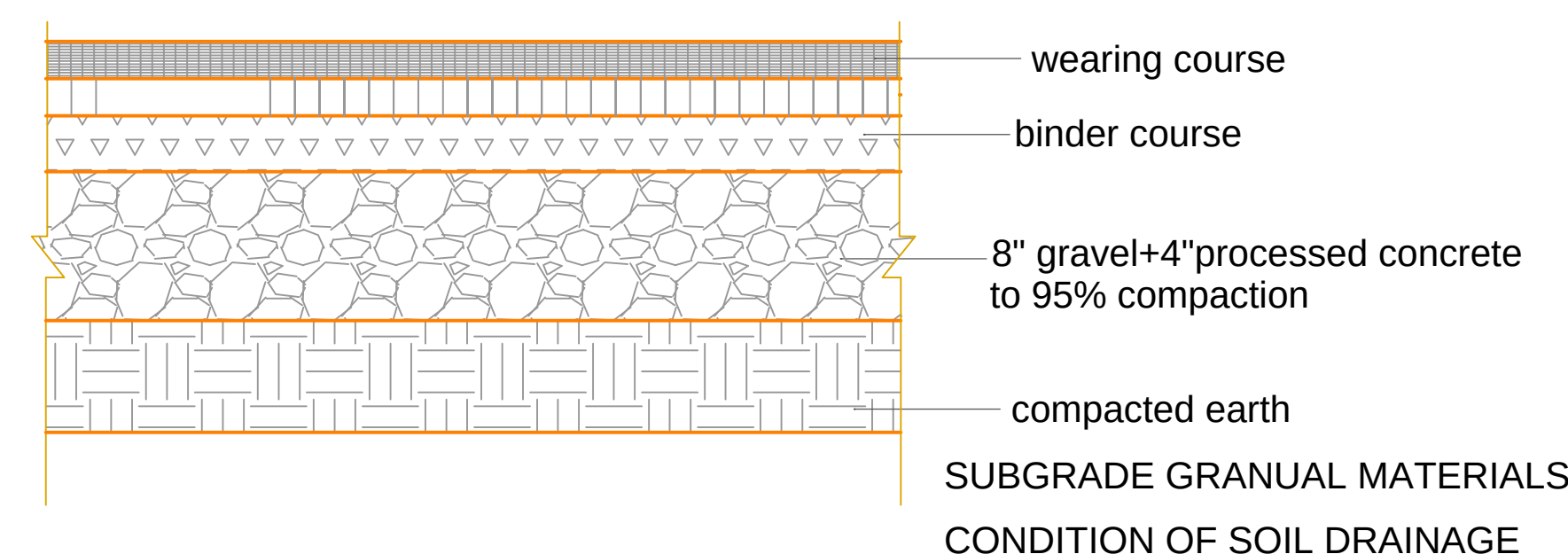
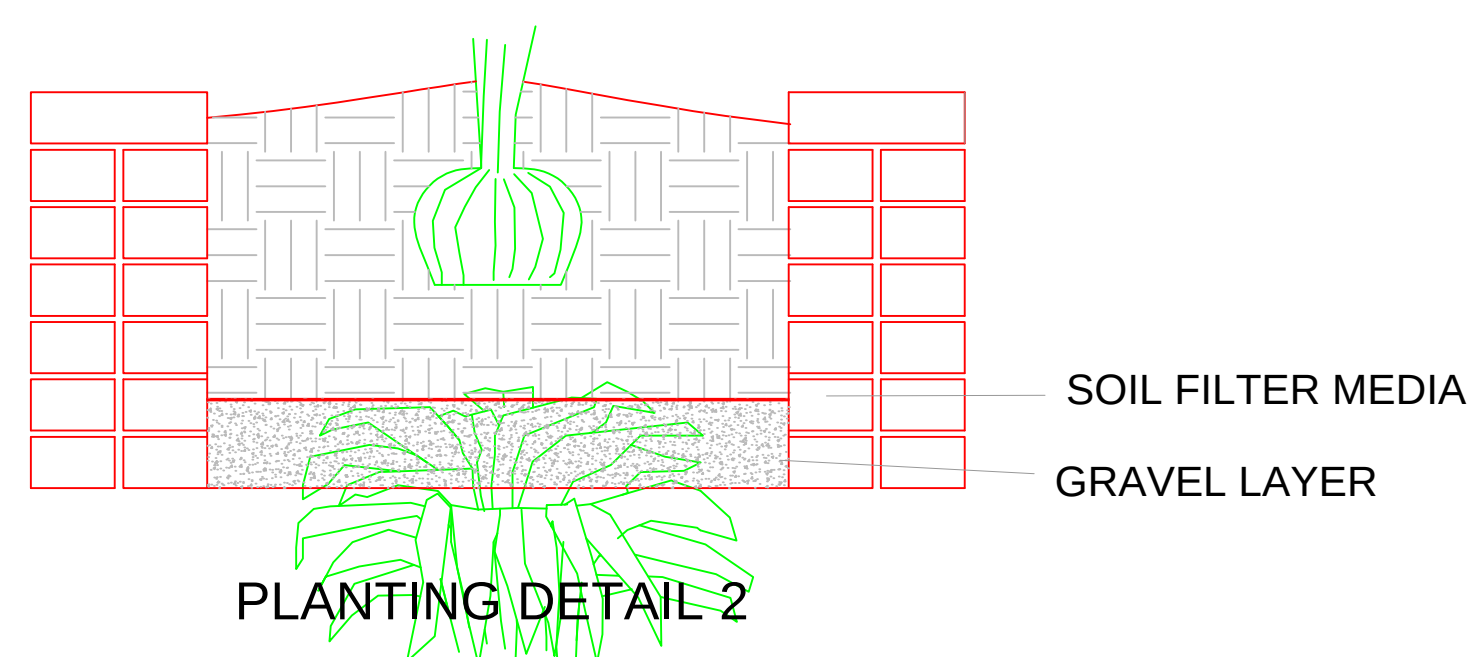
AAYUSH KHARE	SIGN
B.ARCH	
V YEAR(X SEM)	
BBDU LKO	



PAISED BRICK FOUNTAIN



PLANTING DEATIL 1

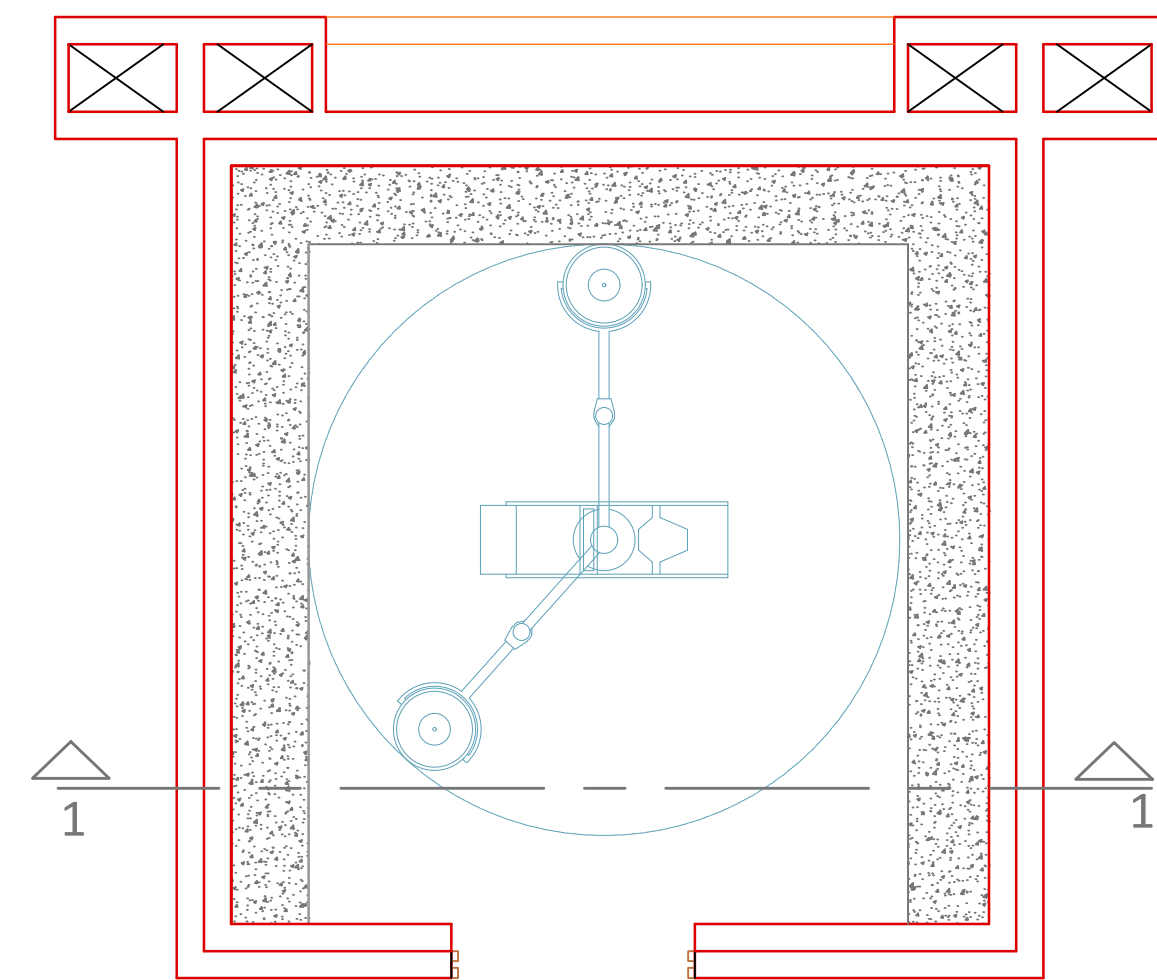


THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR(UTTAR PRADESH)
ELECTIVE 1 (LANDSCAPE)

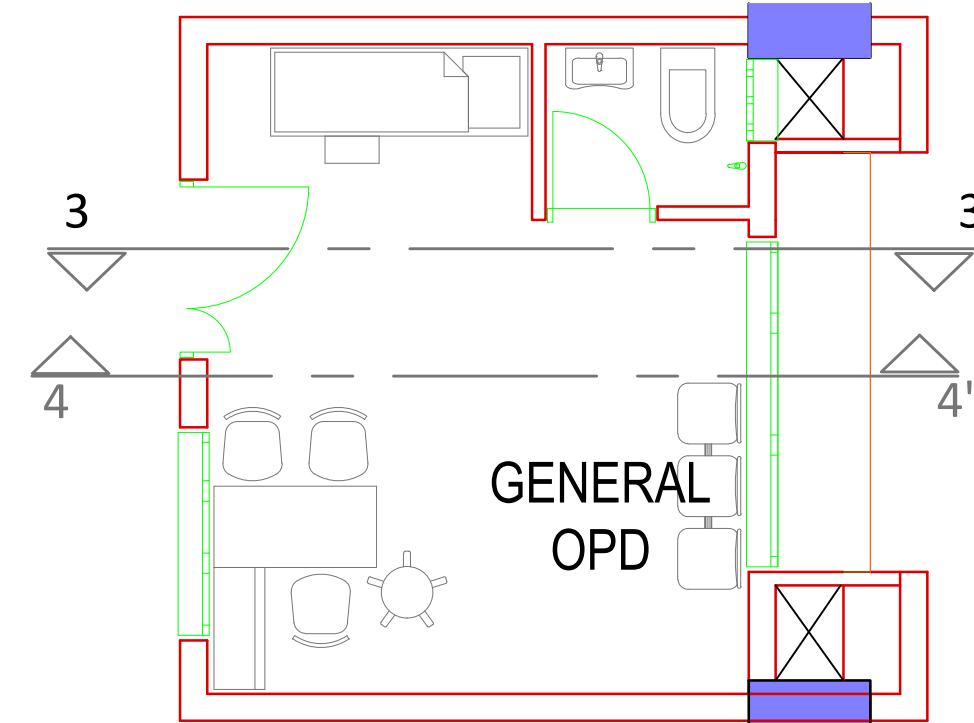


AAYUSH KHARE
B.ARCH
V YEAR(X SEM)
BBDU LKO

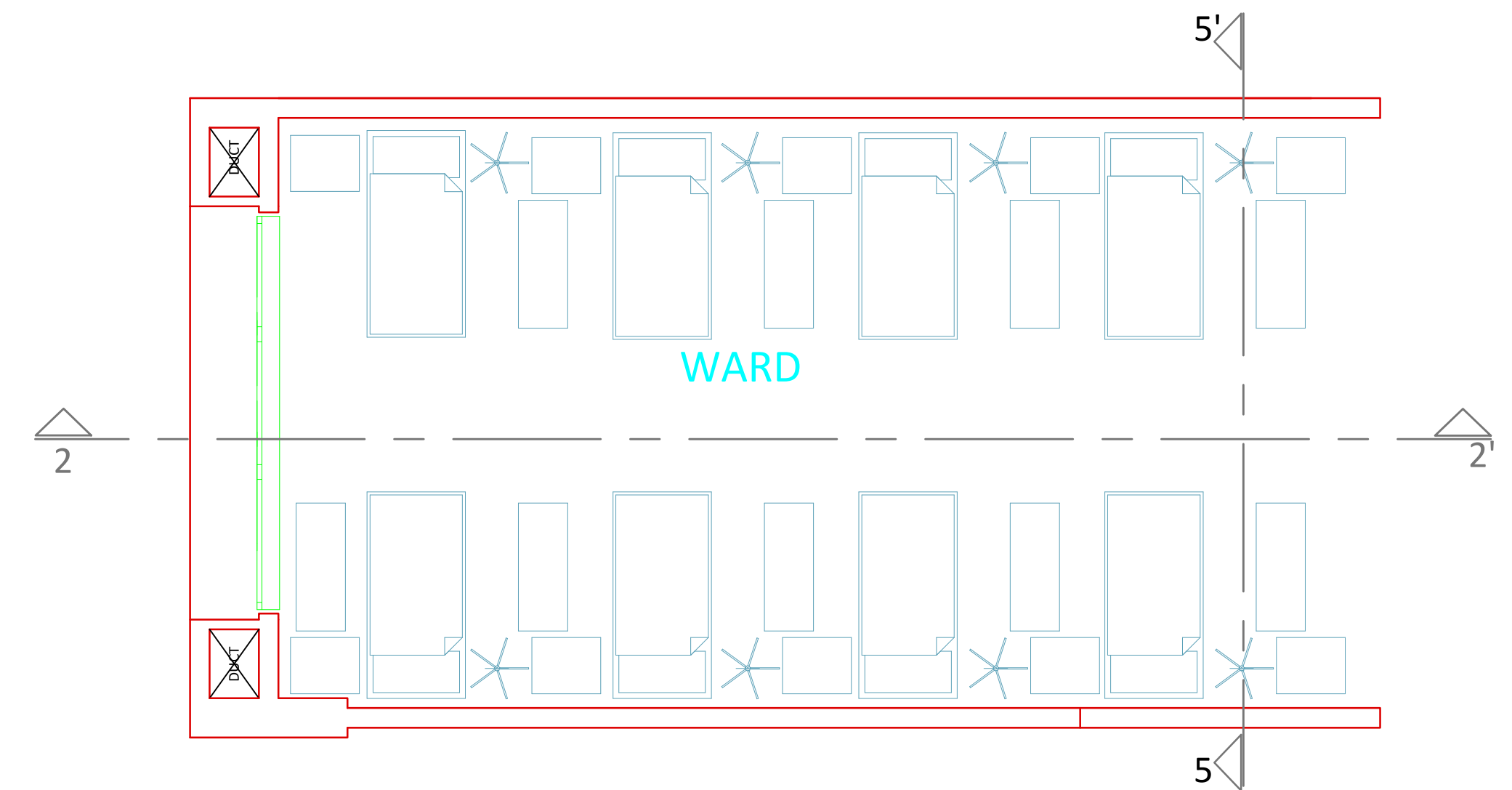
SIGN



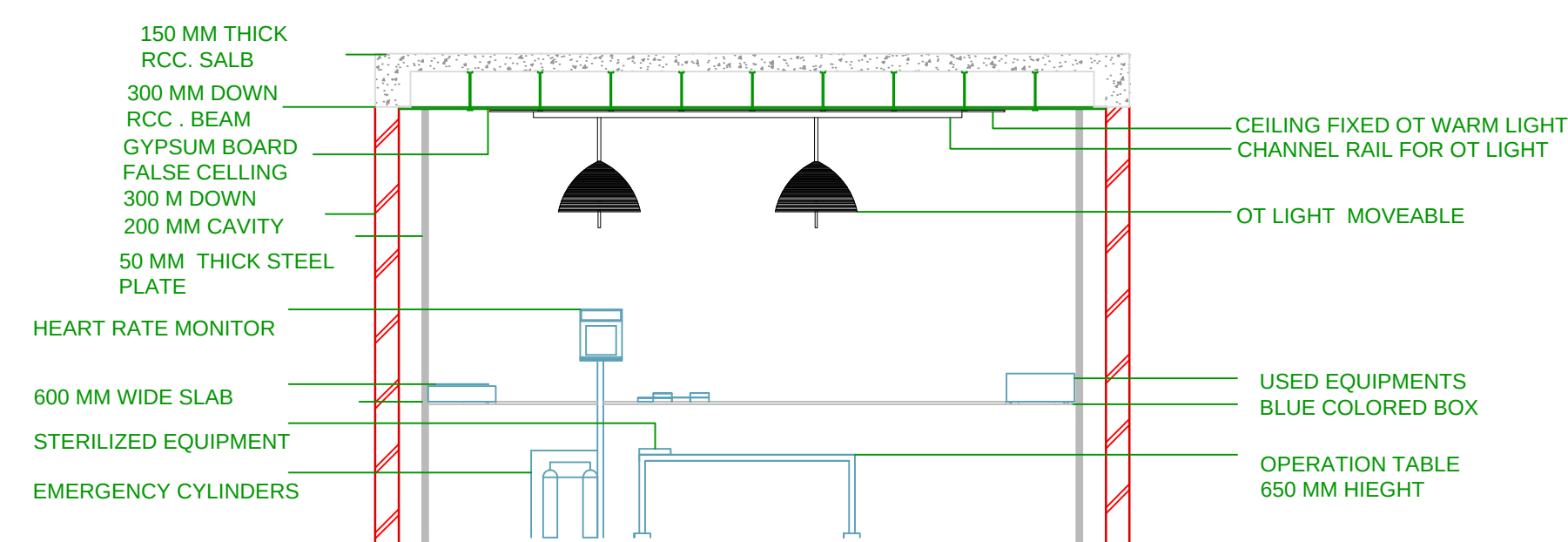
OPERATION THEATER



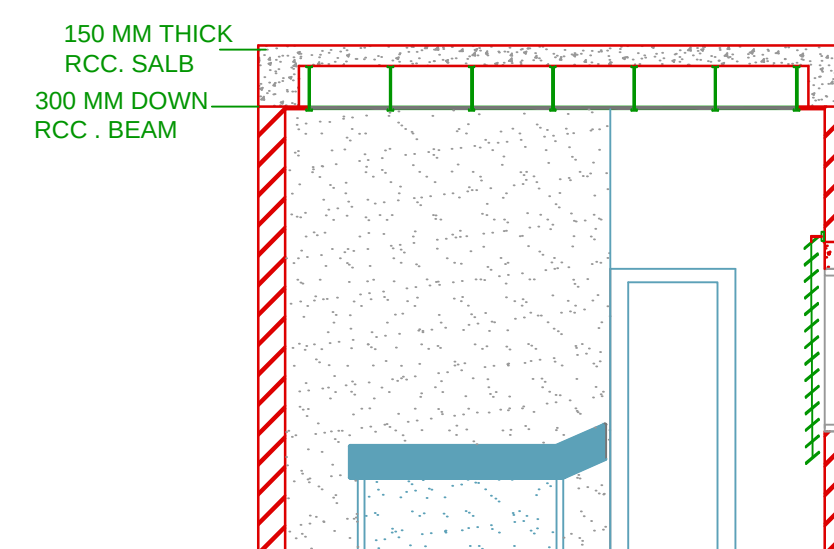
GENERAL
OPD



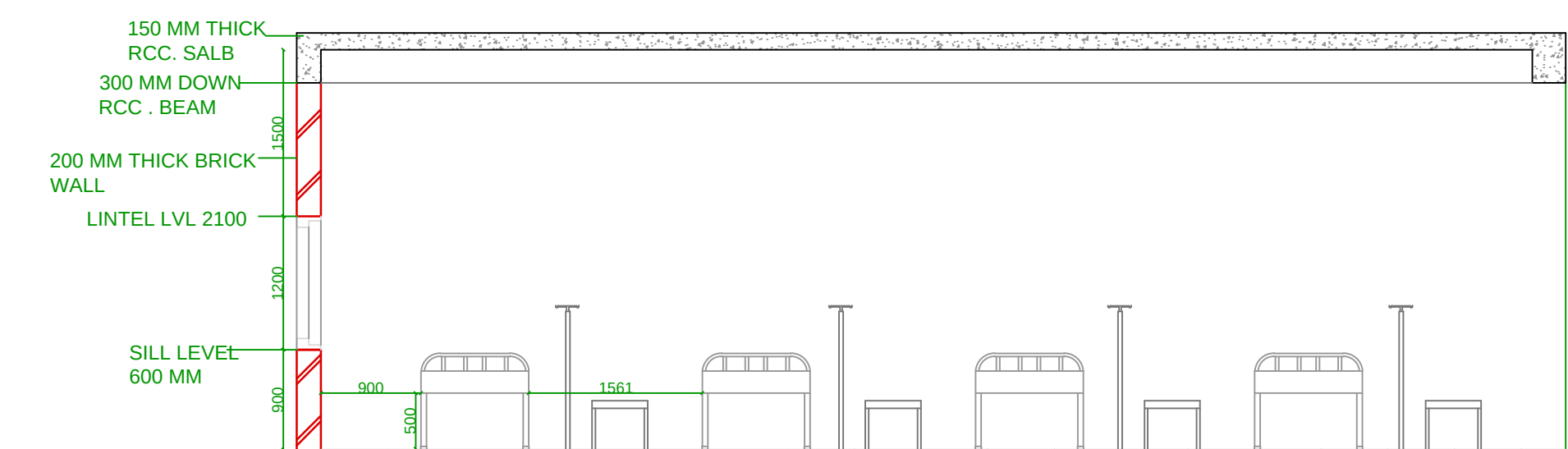
WARD



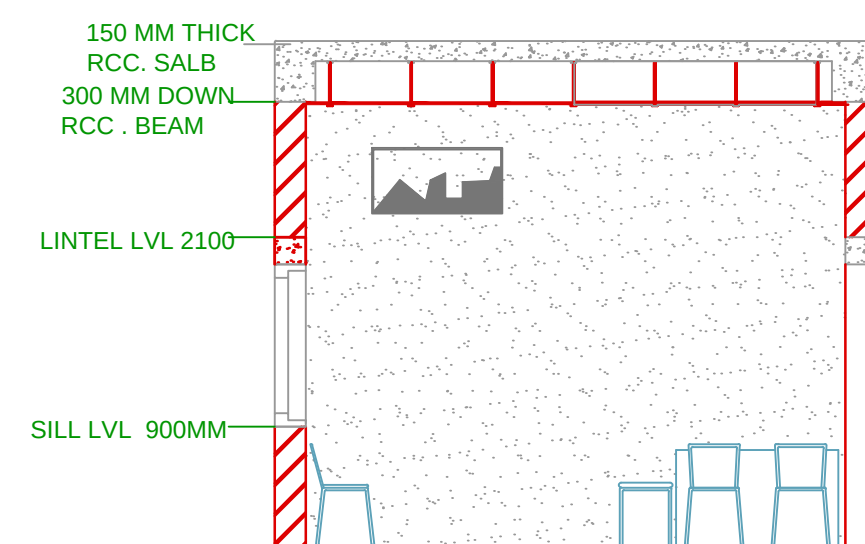
SECTION 11'



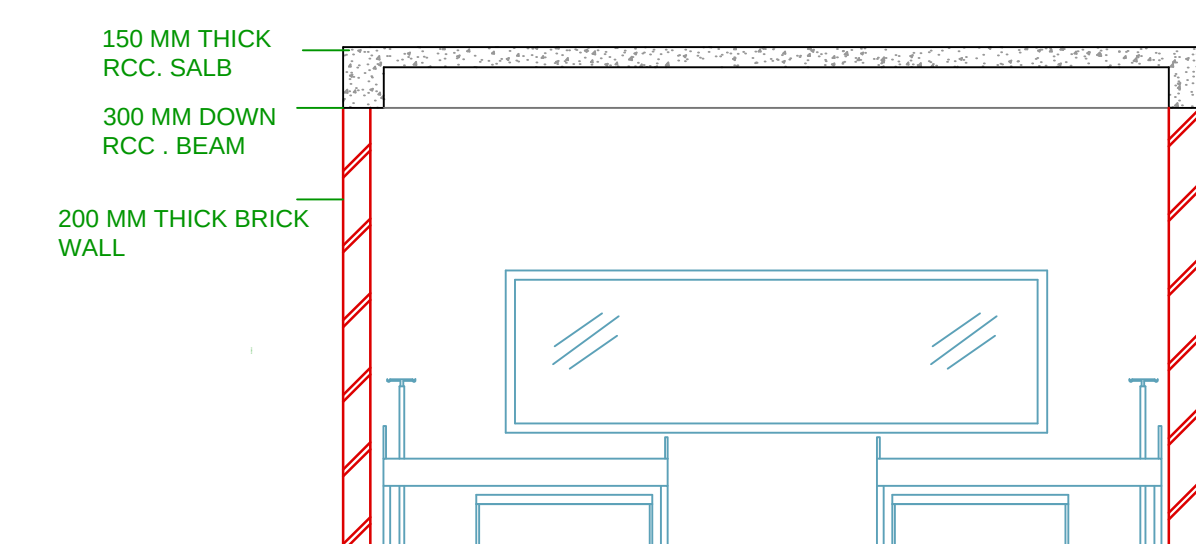
SECTION 44'



SECTION 22'



SECTION 33'



SECTION 55'

THESIS 2019-20
MEDICAL COLLEGE AT AMARPUR(UTTAR PRADESH)
ELECTIVE 2(INTERIOR DESIGN)



AAYUSH KHARE
B.ARCH
V YEAR(X SEM)
BBDU LKO

SIGN



HOSPITAL BLOCK FRONT VIEW



HOSPITAL BLOCK ISOMETRIC VIEW



ACADEMIC BLOCK FRONT VIEW



ACADEMIC BLOCK ISOMETRIC VIEW