

## THESIS REPORT ON "CONVENTION CENTRE"

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

### **BACHELOR OF ARCHITECTURE**

BY

KAUSTUBH

(1190101016)

THESIS GUIDE

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SESSION

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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 "CONVENTION CENTRE" under the supervision, is the bonafide work of the students 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

Not Accepted

External Examiner

External Examiner

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At this moment of accomplishment, first of all I would like to thank my Thesis Guide, Prof. Sangeeta Sharma. This work would not have been possible without her guidance, support and encouragement. Under her guidance, I successfully overcame many difficulties and learned a lot. Her valuable suggestions helped me to make my work better.

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> Regards KAUSTUBH 1190101016 B. Arch. V Year. 2023-2024

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## **CONVENTION CENTRE**

## **INTRODUCTION** :-

- A convention is a gathering of individuals who meet at an arranged place and time to discuss or engage in some common interest.
- Conventions are often planned and coordinated by professional meeting and convention planners, generally by staff of the convention's hosting company. Most large cities will have a convention centre dedicated to hosting such events.
- The term MICE Meetings Incentives Conventions and Exhibitions is widely used in Asia as a description of the industry. There are various types of conventions; the most common conventions are based upon industry, profession and fandom. They can be typically described as –





**CONVENTION CENTRE, MUMBAI** 

**CONVENTION CENTRE, LONDON** 

**TRADE CONVENTION** - It typically lays focus on a particular industry or industry segment, and feature keynote speakers, vendor displays, and other information and activities of interest to the event organizers and attendees.

**PROFESSIONAL CONVENTIONS** - They focus on issue of concern to the profession and advancements in the profession. Such conventions are generally organized by societies dedicated to promotion of the topic of interest. **FAN CONVENTIONS** - They usually feature displays, shows, and sales based on pop cultures and guest celebrities.

SEMINARS - They are meetings organized to celebrate major events and religious ceremonies. Common social events include- anniversaries, weddings and birthdays. **TRADE SHOWS / EXHIBITIONS** - They are an opportunity for companies to exhibit some of their latest products.



## **NEED OF THE TOPIC** –

Nowadays the rapid development of megacities and metro cities are the cause of the growth of population, industries and business sectors. There is a need to expose the activities and creativities in front of people across the globe to promote new trends and cultures. As a result a space is required to gather people where this kind of events can be taken place. This is the concept of a convention centre where people can gather to share and earn various experiences. These centres emphasizes both public and private events. Encourages tourism developments, business developments, cultural activities, social gathering and amusements. Convention centre provides an opportunity for mixing, sharing and evolving values, morals, customs and ethics. It helps us in understanding the others feelings, beliefs and expectation.

**AIM** –The Aim of the project is to do the development of the Convention Centre with concept of Panchtatva in order to design unique spaces to make people visit from different cities and countries to attend conference and exhibitions and to create a landmark through unique architectural design.

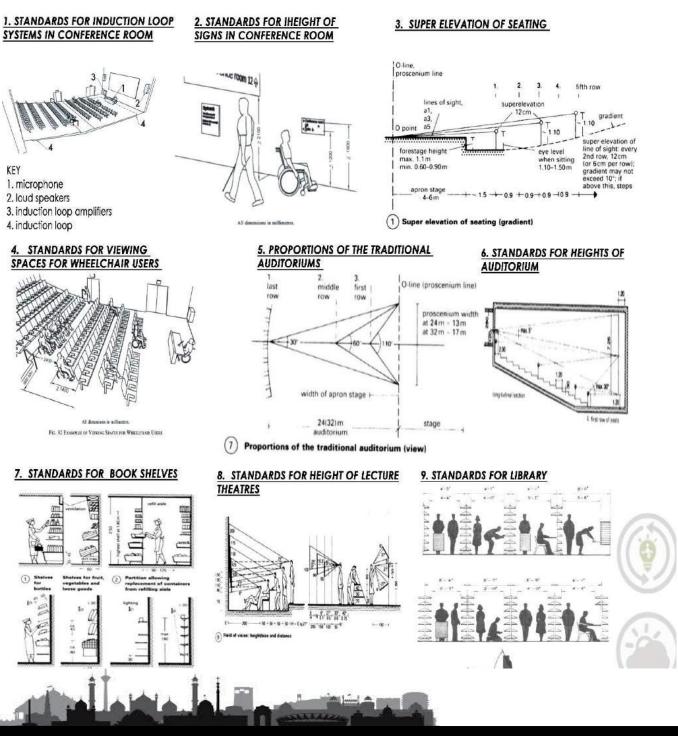
## BYLAWS



## NORMS- BUILDING BYELAWS

TOTAL SITE AREA - 10.23 ACRES PERMISSIBLE FLOOR AREA RATIO - 1.30 PERMISSIBLE GROUND COVERAGE- 30% SETBACKS - 15 MTS FRONT SETBACK 9 MTS SIDE AND REAR SETBACK

## STANDARDS AND DESIGN GUIDELINES



### 1) Access and Entrance:

- Separate access is required for visitors, staff, goods and service vehicles and emergency
  requirements. It is usually desirable to provide alternative entry for public which is
  independent from that used by conference visitors. This not only facilitates management and
  security, but also enables two or congress events or exhibitions to be run independently in
  parallel.
- Easily identifiable entrance and exit, and clear external signage, which may need to be illuminated.
- Sufficient unloading/loading space to accommodate multiple events.
- Level ground floor with loading docks of sufficient size for all services including client vehicles.
- Large coach drops off and collection points adjacent to main entrance, with sufficient turning space and height, accessible under cover.
- Doors of sufficient width and height or demountable/retractable walls to permit truck access (trucks delivering exhibit and staging equipment pose particular problems).
- Floor loadings to permit truck access.
- Easily identifiable and weather protected entrance and reception area for attendees.
- Clearly identified disabled access.
- In larger venues, security systems and monitoring at loading docks.
- Separate entry for venue staff.
- Storage space (for several days) for pre-congress consignments including exhibitors' displays materials.

### 2) Access for the disabled:

• Specific provisions include allocation of parking spaces, identification of routes, provision of ramps, toilets and facilities designed for wheelchair and other disabled users in each main area.

### 3) Parking:

- Coach parking bays off street.
- Sufficient undercover parking for attendees.
- All parking, including venue staff parking, should be secure.
- Direct access to venue lobby.
- Clear directions for exiting car park.
- Parking requirements for cars and other vehicles will depend on some extent on the proximity
  and conditions for use of alternative facilities, such as municipal car parks, as well as on the
  availability of public transport.

Typical provisions to allow flexibility in use are:

Use	Per Car Parking Space
Banquet Places	10 Sq. m.
Congress Hall Places	10 Sq. m.

### 4) Service Vehicles:

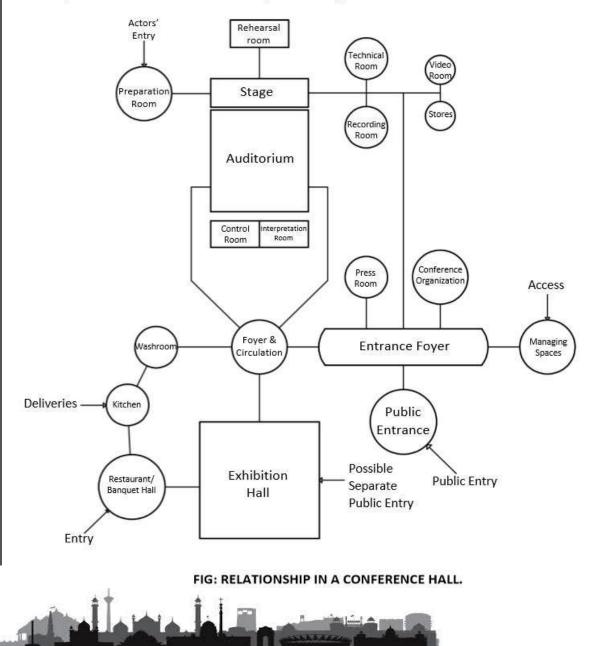
- Plenty of space for parking while unloading/loading goods and equipment with a dedicated car park for vehicles delivering goods or equipment.
- Parking for trucks with sufficient height and turning space where staging, audio visual or other equipment needs to be packed in or out within short period of time.
- Long-term parking for trucks used for transporting production equipment and exhibitors' displays.

#### 5) Horizontal and Vertical Arrangements:

- The single floor organization provides easy access among the rooms and between the conference areas and other functional elements. This plan imposes few structural or mechanical constraints, permits total freedom in the planning of the rooms, allows for access from the refreshment break areas to outdoor terraces and patios.
- Vertical stacking of auditoria and/or main halls is more economical in the use of land, and enables space below tiered floors to be more efficiently used. Unit costs of construction are higher and vertical transportation of people and goods may present difficulties.

### 6) Circulation:

- Linear arrangement of spaces with beginning, middle and end.
- A loop where the essentially linear storyline leads naturally back to the beginning.
- An arrangement of core and satellites where each theme or detailed treatment of a subject leads back to a central introductory or orientational areas.
- A more complex scheme combining linear, loop and core-satellite arrangement of spaces.
- Comb which refers to a circulation pattern in which there is a main circulation path and optional alcoves which a visitor may enter or bypass.



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### Exhibition hall

The Exhibition Spaces are intended as a combination of indoor and open-air exhibition space in order to create a strong relation between covered and green open spaces through thematic content. The goal is to create an integrated expositive landscape and a Visitor Experience that immediately establishes a positive relationship between humankind and nature, creating a bridge between the content of the Event and the nature of exhibition spaces.

The exhibition hall provides optimal conditions for

- trade fairs
- exhibits
- conventions
- events and galas

An exhibition hall can be

- Open-air exhibition space
- Covered exhibition space

### **OPEN-AIR EXHIBITION SPACE**

The landscape design shall be developed in keeping with the Theme and with the Participant's approach to it. Like architecture, the landscape shall also help to tell intriguing stories about the pleasures of the table, delightful scents or strange and curious stories related to food cultivation and processing. The landscape has to document the most advanced research in the field of food production and the transformation of agricultural products. Countries will showcase their capabilities in food production, the biodiversity of their products, and their agricultural and food supply chains.

### Open spaces

A minimum of 30% of each lot must be dedicated to open areas and greenery. Excluding lot setbacks the Open-air Exhibition Space represents around 50% of each lot, where it is possible to build:

- Structures used for plants ensuring soil permeability (e.g. trellises, pergolas, garden structures, planters).
- Landscaping structure (e.g. structures used to retain soil or other materials, pools, exhibition structures, art works).

### COVERED EXHIBITION SPACE

Covered Exhibition Spaces are buildings or enclosed structures containing exhibition areas or other spaces, including all overhanging upper floors or balconies. Participants may decide to build more than one level within the Covered part of the Exhibition Space, based on their individual needs.

### Height of Buildings

• The height of the Covered part of Exhibition Space (or Building Height) must be less than 12 meters.

• The height limit for any additional architectural elements (such as skylights, roof elements, vertical connections to the roof, sunscreens, signals, etc.) is 17 meters.



#### **Building Setbacks**

• The setback from the main boulevard must be no less than 10 meters, in order to create a small square.

• The distance between buildings and the side street shall be no less than 2 meters; there shall be no building concession directly to squares, greens, streets or public spaces, without the 2 meters' setback.

• The setback from the neighboring lot shall be no less than 3 meters.

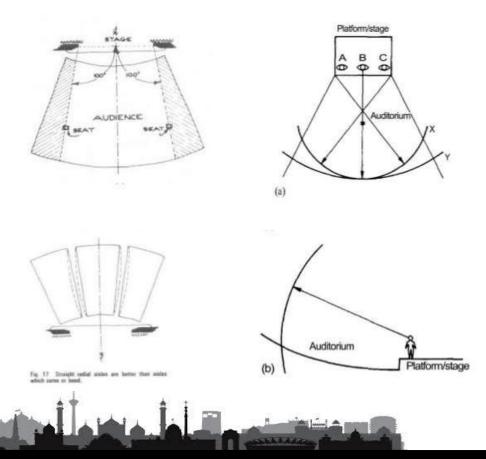
• The distance between buildings shall comply with fire control requirements.

#### AUDITORIUM

The auditorium is the heart of building, where the primary activity of experiencing and presenting performances take place. Audience seating is arranged to view the stage and the stage is a platform from which the performer can be communicate to the audience. The relationship between the two is very crucial for the success of convention centers. Mostly auditorium is designed to fulfill no of purposes. The objective of designer will be to use 100% usage of space. Auditorium should be designed in such a way that every member should be able to see and hear the performance of stage.

### 1. Form/shape

Shape corrects the defects of sound in auditorium hall i.e. echo's, excessive reverberation, sound foci's, dead spots etc. fan shape <100 degree is ideally best shape for auditorium. In auditorium hall, the wall & ceiling is not perpendicular to each other as in other normal rooms. Mostly less curve Concave shape is also considered. The size of hall is governed by audience requirements, Visual & aural limitations.



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#### Audience Requirements

Every member of the audience should be able to see and hear clearly

Visual Limitations

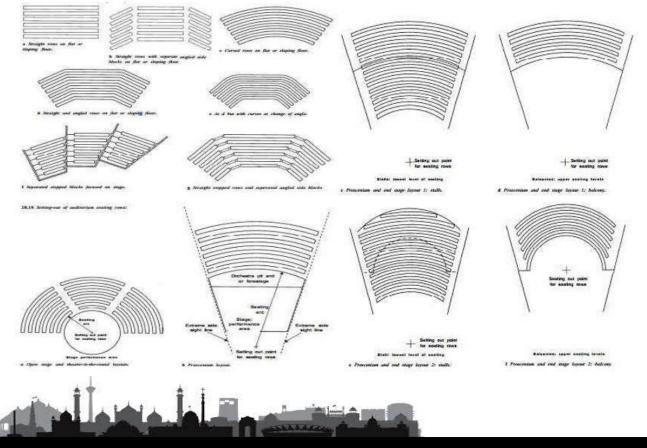
- For drama= 20m
- For Opera= 30m
- For dance= 20m
- For conference = 20m

#### O line proscenium width of auditorium width account is taken of the last row fact that the hatched section cannot be seen R B/C - proscenium width BCDE - acting area of stage by the side seats apron stage P = point to determine width of auditorium 4 proscenium width

7) Proportions of the traditional auditorium (view)

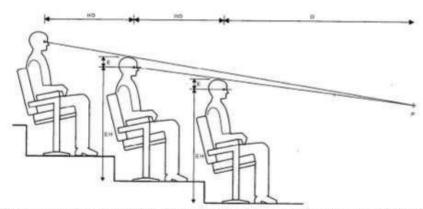
#### **Seating Capacity**

- minimum Dimension of seating with arms =500mm Without arms =450mm
- Seat height = 430-450 mm
- Angle of inclination= 7-9 degree with horizontal
- Back Height = 800-850mm
- Angle of inclination = 15-20 degree
- Seat Depth= 600-720 mm, reduced to 425-500mm when the seat is tipped
- Other Factors affecting seating is,
- Acoustics: Upholstery to satisfy the acoustic requirements, usually the level of absorbency when unoccupied
- Ventilation & heating: Air supply or extract under a seat
- Upholstery: Thickness of padding should provide comfort & avoid fatigue, material of padding and finish must satisfy fire regulations

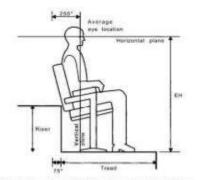


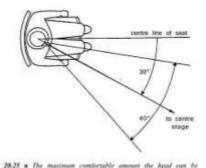
### Vertical Sightlines

The longitudinal section is a parabolic stepped floor as a theoretical rake produced by the sightline calculation. This gives every member of the audience similar viewing conditions. This may be reduced to a single angle or series of angles when applied as described the rake will also be steep. This is satisfactory for a single tier of seating with no balconies and is especially appropriate for open-stage formats.



20.21 Graphic representation of vertical sightlines, P lowest and nearest point on stage clearly stable by andience. HD horizontal distance between eyes in successive and/once rows, EH average and/once eye height above floor, E height hereven eye and top of head, D distance from eye of person in front row to P.





named from the seat centrelise is 30°.

20.22 Position of eye in relation to sent and stapped floor. Dimensions vary according to upholetery thickness, and inclinations of both sent and back. Working dimensions are shared.<sup>4</sup>

#### Changing Room requirements

- It should have discrete access
- Be equipped with secure hanging space
- Have mirrors with good lighting over vanity tables
- Have separate toilets & showers
- Have audio/video feed from performance areas
- Be equipped with phones and power outlets

#### Rehearsal Rooms

- Enclosed space without natural light close to the dressing room
- Sound system, Lighting
- There should be at least one stage for the rehearsal of performances

#### Storage room

20-25% of playing area

### Workshops for making scenery

- Should be exclude from main hall due to fire & limited space options
- 4-5 times the area of main stage

### Technical utilities

- Transformer room
- Medium & low voltage switch room
- Power batteries
- HVAC plants
- Fire sprinkler system

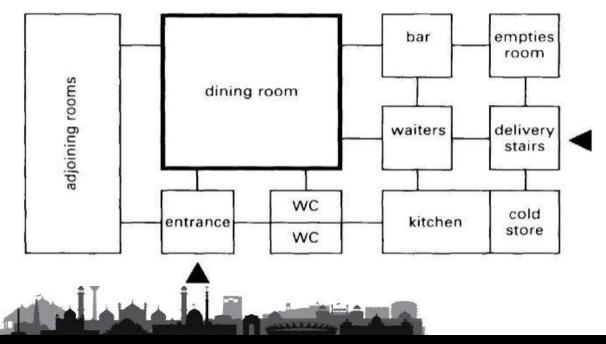
### Cloakrooms

• Minimum 4m2 per 100 people

### RESTAURANTS AND FOOD COURTS

- Should be planned to achieve variety of seating arrangements.
- Provide acoustic lobby between restaurant and kitchen.
- Access should be planned for guest.
- The service aisle should not be less than 0.9-1.35m if it is to be used by both trolleys and guest.
- Waiter station should be located so as not to disturb guest.
- Ambience is an important factor in restaurant design: decoration, lighting should be an integral part.
- Large regular space should be broken up

### General Functional Layout of Restaurants:



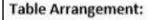
20.59 Follow spot, minimum size for equipment and operator 1.5 m  $\times$  2 m

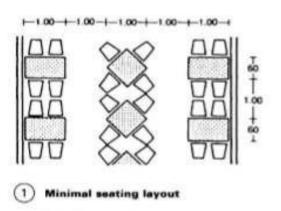
### Dining Areas:

- Calculating the space requirements for dining areas can be difficult because of the many choices available.
- For example, the final space for the dining space is dependent upon the following variables:
  - 1. Types of seating to be provided
  - 2. Tables sizes desired
  - 3. Table shapes desired
  - 4. Pattern of table arrangements
  - 5. Number of service stations needed

dining floor area	walkway width
up to 100 m <sup>2</sup>	≥ 1.10 m
up to 250 m <sup>2</sup>	2 1.30 m
up to 500 m <sup>2</sup>	≥ 1.65m
up to 1000 m <sup>2</sup>	≥ 1.80 m
over 1000 m <sup>2</sup>	≥ 2.10 m

### Walkaway Width

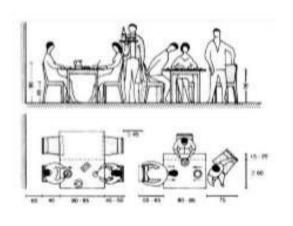


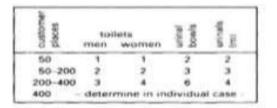


### PARKING

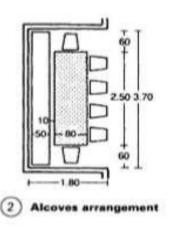
### General Design Considerations:

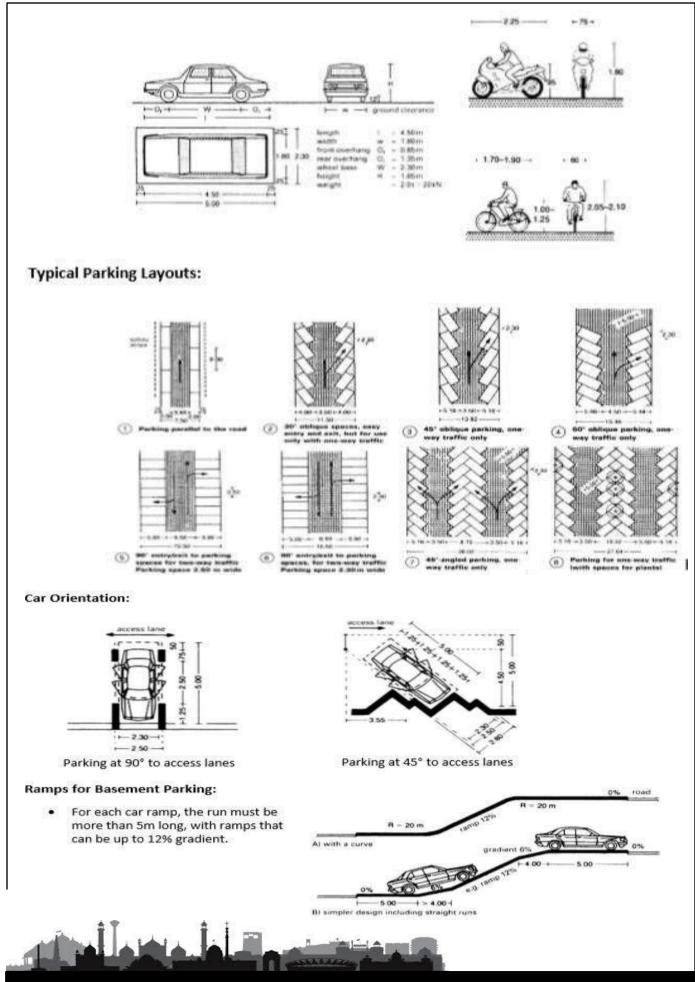
- The parking spaces acts as a place for the ceremonies of Arrival & Departure.
- The basic requirements for parking spaces should be taken from the vehicle dimensions whilst driving in a linear path, cornering and entering into and driving out of the parking area.
- Parking can be done in various ways: inclined with various angles or perpendicular.
- Parking can also be done in basement or on surface outside the complex.



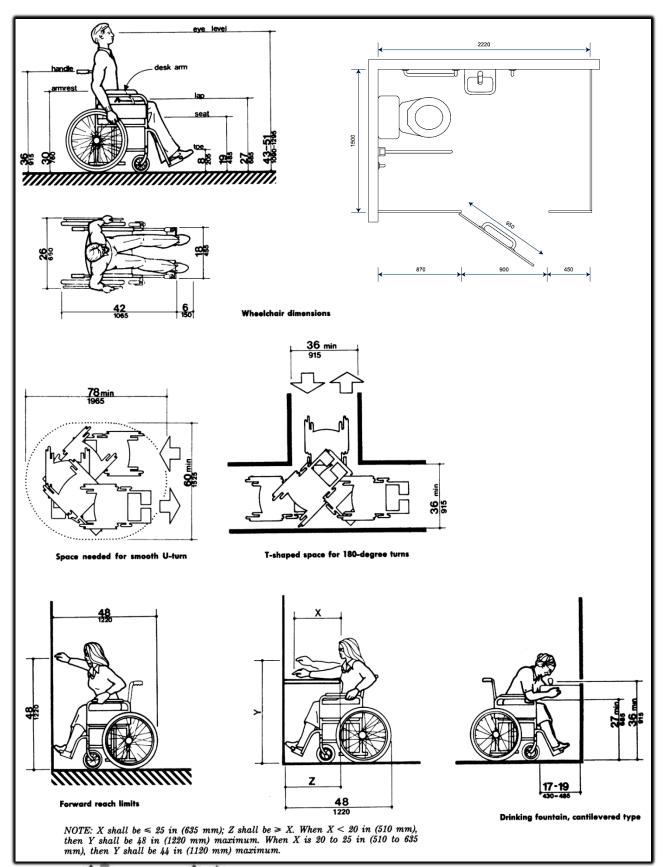


**Toilet Facilities** 





## **For Disabled People**



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## DRESDEN MUSEUM OF MILITARYHISTORY

Location	: Germany
Architect	: Ar. Daniel Libesknd
Clint	: The Federal Reliance of Germany – Ministry of Detente
Build up area	: 22,500 sq.mt
To commemorate	: First World War
Project Year	: 1876, Renovated in 2011

### **Objective of study**

To learn about form and function of war museum and how it interacted with the existing fabric of the area.

The wall at odd angles give the observer the sense of disorientation that is at the same time calmed by the transition from wider to narrower rooms

## **EXHIBITTS**

- Military Technology
- Equipment
- Uniform
- Art and Photography
- Animal Sculptures {That served as the subjects at military experiments}

## THROUGH THE TRANSFORMATION , ADDING NEW CHARACTER TO THE BUILDING

- The museum looks like the bow of a ship breaking through an iceberg, pointing in the direction from which the British and American bombers come to attack the city
- Two visitor approaches : thematic sections and a chronological four.
- Visitor circulation in top to bottom as in Guggenheim Museum, New York by Frank Lloyd wright

## DRESDEN MUSEUM OF MILITARYHISTORY

## **INTERIOR**



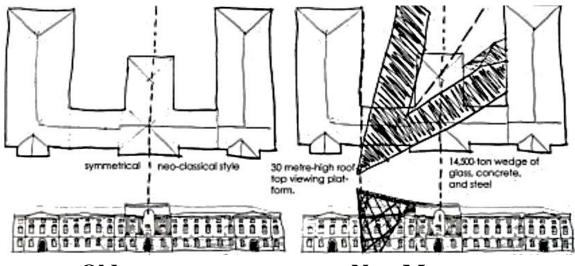
## **APPROACH**

Allows to have a clear vision towards the centre of the city, accompanied by a road axis transversal to the building

## **INFRENCE**

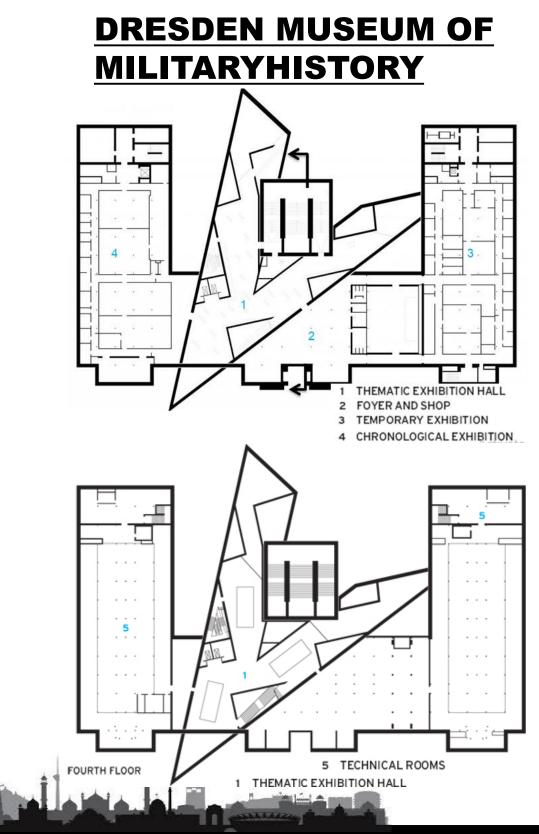
### NEGATIVE

- The space feel under population
- Too often visitors fascinate at the forms or spaces rather than looking at the exhibits.
- The exhibits have good lighting and displaying layout but lack signage providing information people don't get the actual meaning of the displays



### Old museum

**New Museum** 



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## **IMPERIAL WAR MUSEUM LONDON**

Location	: Lambeth Rd. London
Architect	: Faster and partners
Interior Design	: Caisson Mann
Build up area	: 22,500 sq.mt
To commemorate :	First World War
Project cost	: 40 million pound $-5$ billion rs
Project Year	: Renovated in 2014. In 1814 it was Royal hospital
converted to museur	m in 1836

## **Objective of study**

To learn about :

- Spaces of war museums
- Ways to potray the exhibits
- Create an impulse in the visitors
- How to make the museum accessible for all type of visitor differently

## **CONCEPT OF TRANSFORMATION**

Three concept

- Clarity of circulation
- Chronology
- Consolidation

## **THROUGH THE TRANSFORMATION**

- Chronological arrangement : GF First World War Goleries to Top Floor with current confflicts
- Western floor lowered step free access
- Case away from gallery can be open even when museum is closed
- Connecting to surrounding western façade windows opened

## **IMPERIAL WAR MUSEUM LONDON**

## **CONCEPT OF EXHIBTS**

- First World War Galleries
- Exhibition
- Secret War
- Witness to War
- Lord Ashcraft Gallery
- Pease and Security 1945-2014
- Visitors see the conflict through the eyes of thoes who lived and died
- Their voices are presented through letters, daries and quatations
- Eash objects will give a voice to the people who created them used them or cared for them

### **EXHIBITS**

- Weapons and ammunition
- Equipment
- Uniforms, Flags, Badges
- Art and Photographs
- Mementoes
- Records
- Vehicles , Aircraft , Ships

### **INFRENCE**

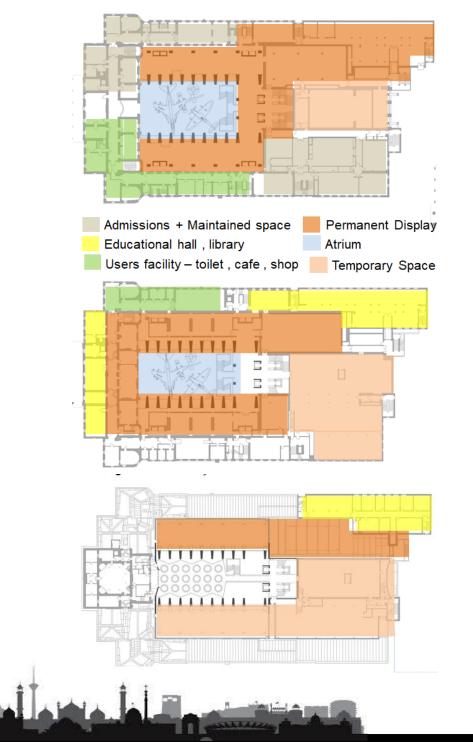
### Positive

- Central atrium brings in pretty of natural light.
- Visitors got to experience visitors are educated rather than just seeing
- Teachers what to do when was comes audio visual workshop

### Negative

- The spaces are over crowded by exhibits different to group up everything
- Frightening for kids barrier could have been there

## LITERATURE STUDY <u>IMPERIAL WAR MUSEUM</u> <u>LONDON</u>



# CASE STUDY

## TRADE FACILATION CENTRE AND CRAFT MUSEUM, VARANASI



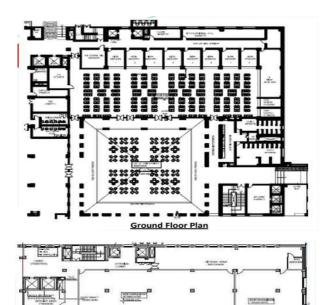
### SITE SURROUNDINGS

- •Name of Project- Trade Facilitation Centre & Crafts Museum at Varanasi.
- •O wner-M inistry of Textiles G ovt. of Ind ia.
- •Site Area/Location 7.93 Acres land near Kendranchal Colony at Bada Lalpur,
- •Construction Agency-Tata Projects Limited.
- •Construction Started-2014
- •Construction completed-2017

EAST - VIGYAN BHWAN WEST - JJAWAHARLAL NEHRU BHAWAN NORTH – RAJPATH ROAD SOUTH – ARCHAELOGICAL SURVEY OF INDIA

Varanasi, the land of lord Shiva is also land of many ancient and exquisite arts. To boost moral of Such artists by providing a platform to showcase their art, the TFC (Pd. Deendayal Hastkala Sankul) is an art museum with distinct galleries like textile, hand loom, carpet, wood carving and many more.

The TFC & CM project located at Bada Lalpur, Varanasi, being developed by Ministry of Textile on **7.93 acres** land and having constructed area of around 43,450 sqm. The project is expected to be completed by August 2017 and will offer facilities such as Convention hall, Exhibition area, Shops, Marts, Food Court, Restaurants, Guest Houses, Dormitories, Offices, Crafts Museum and Amphitheater along with support infrastructure and amenities focused at providing integrated platform for promotion of Handloom, Handicrafts and Carpet Sector of Varanasi region **Ground Floor** The ground floor of the block consists of food court with both indoor and outdoor seating spaces. The courtyard space has been envisaged to be converted to form exhibition space or area for other activities as per requirement.



Description	Total Units	Unit Size (mm)
Kiosk1	7	3920 x 5570
Kiosk2	1	3735 x 5570
Kiosk3	1	4910 x 13640
Cash Counter	2	5140 x 2585
Kitchen Addition Area	1	18045 x 2770
Indoor AC seating area	1	40900 x 13700
Outdoor Seating area	1	26600 x 26970

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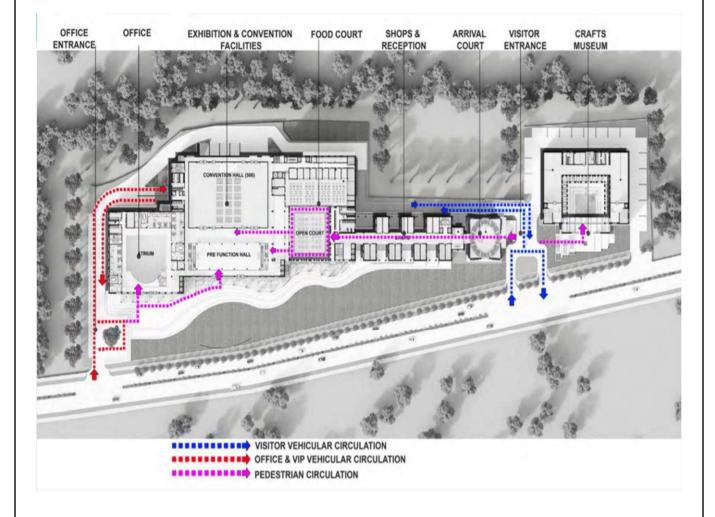


MART 28

**Total Units** Unit Size (mm) Description Beds 10 Nos Dormitory (Type 1) 1 10420 x 7700 6 Nos Dormitory (Type 2) 7790 x 5875 1 5 Nos Each Dormitory (Type 3) 2 5255 x 8785 5 Nos Each Dormitory (Type 4) 4 3920 x 8785 4 Nos Each Dormitory (Type 5) 2 8220 x 3920 4 Nos Dormitory (Type 6) 1 8220 x 4970 6 Nos Dormitory (Type 7) 10485 x 5685 1 6 Nos Dormitory (Type 8) 5560 x 11070 1 6 Nos Dormitory (Type 9) 3905 x 11070 1 5 Nos Dormitory (Type 10) 1 4105 x 11070 . Office 6340 x 11770 1



## **CASE STUDY**



## SITE STUDY



# **ABSTRACT**

This research is on **-NEW OKHLA INDUSTRIAL DEVELOPMENT AUTHORITY** (NOIDA)Noida, short for the New Okhla Industrial Development Authority, is a planned city under the management of the New Okhla Industrial Development Authority (also called NOIDA).It is a satellite city of Delhi and is part of the National Capital Region of India.

After doing so much study on convention centre and museum. I have implemented my own design along with my own concept. The concept is cubism and my theme is art noveau. Cubism is an early twentieth century art movement which brought European painting and sculptures. Tried to combine few cubes together to built up the form. Form is centered on the dissolution and reconstitution of threedimensional form, using simply geometry .angular forms are also thus created to connect the space. In this way design is implemented and planning is done keeping in mind the comfort of the user and also keeping in mind the environmental conditions.

IOPOGRAPHY:       SLOPE TOWRDS SOUTH         GREEN COVER:       APPROX 60% OF THE         SITE IS COVERED WITH       GRASS ETC.         SOIL BEARING       12.5 KN /M²         CAPACITY:       HYDROLOGY:         HYDROLOGY:       24 MT BELOW GR. LVL.         SITE SECURITY :       THE SITE IS SURROUNDED         BY FENCES ON ALL SIDES       MAGE SOURCE - GOOGLE EARTH         GOOGLE EARTH IMAGE OF A PROPOSED       SITE	ITE INTRODUC	CTION-	SITE LOCAT	ION -	+4.0	Z	Sansa		
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### ON SITE AND OFF SITE CONSIDERATIONS -

### 1. VEGETATION AT SITE -

AS THE SITE IS LOCATED IN NOIDA AND ON THE BANKS OF RIVER YAMUNA, IT HAS SANDY SOIL AND FAVOURABLE FOR THE GROWTH OF DECIDUOUS TREES



IMAGE SOURCE SURVEY

**BANANA TREE** 



EUCALYPTUS TREE

THE SITE IS GREEN AND PLAIN ALSO THE GROWTH OF WHEAT AND RICE WERE AVAILABE AT VARIOUS PARTS



### SERVICES AT SITE-



(IMAGE SOURCE SURVEY) (IMAGE SOURCE SURVEY) UNDERGROUND ELECTRIC WIRE FACILITIES







(IMAGE SOURCE SURVEY)

(IMAGE SOURCE SURVEY)

IT IS LUSH GREEN

SINCE NO CONSTRUCTION

HAS BEEN STARTED AT SITE.

(IMAGE SOURCE SURVEY)

UNDERGROUND DRAINAGE PIPES

#### SITE CONDITIONS-

(IMAGE SOURCE SURVEY)





(IMAGE SOURCE SURVEY) GAS PIPELINE SIGNAGE

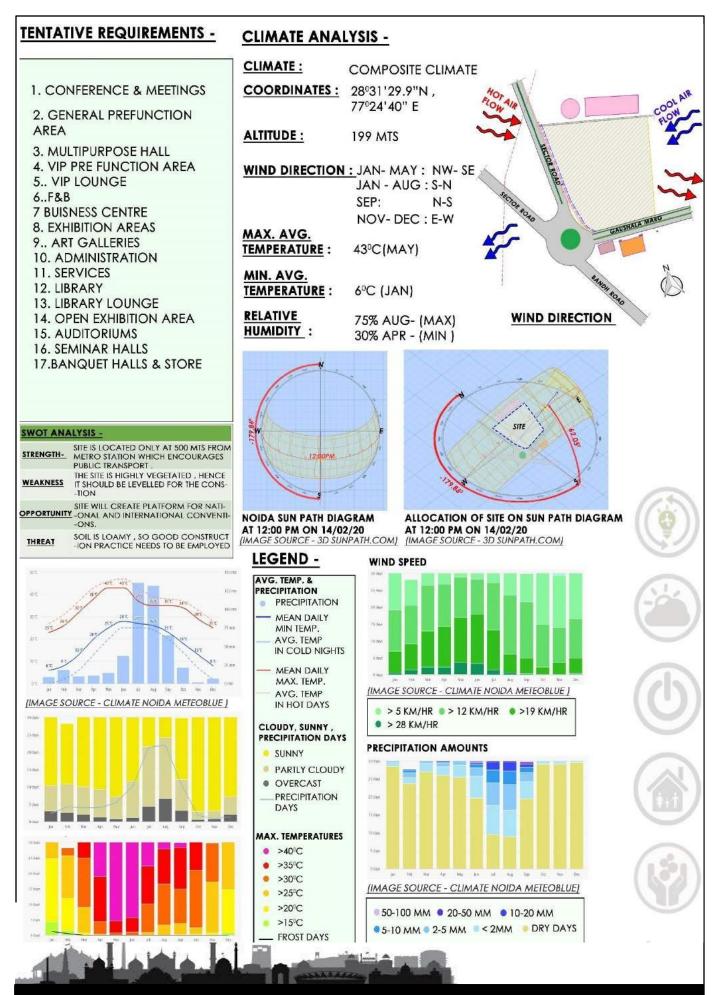
SITE IS SOURROUNDED BY FENCES FROM ALL SIDES

### LOCAL BUILDING MATERIALS -

MOST OFTEN USED BUILDING MATERIALS WERE REINFORCED STEEL BARS CONCRETE, MASONARY BRICKS, GLASS, STONES , CERAMIC TILES, ETC.

### **BUILDING BYE LAWS** -

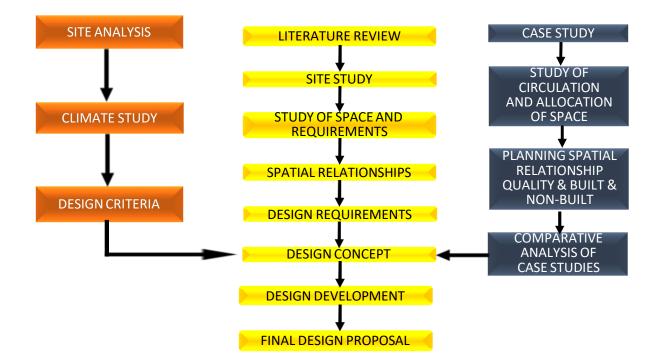
**TYPE OF BUILDING -**ASSEMBLY BUILDING F.A.R. -1.30 PERMISSIBLE GROUND 30 % COVERAGE-15.0 MT. SETBACKS - (FRONT) 9.0 MT. (REAR) 9.0 MT. (SIDES) PERMISSIBLE HEIGHT - NO LIMIT PARKING -**1 PARKING SPACE FOR 20 SEATS** LANDSCAPING - PROVISION FOR RAIN WATER HARVESTING IN ALL CATE -GORIES OF PLOTS EXCEEDING 300 SQUARE METRES IN AREA SHALL HAVE TO BE PROVIDED.



## METHODOLOGY OF THESIS WORK :-

- 1. Study of demographics, data collection and literature study Study of site and analysis of available information. Frame objective, scope and limitation of the project.
- 2. Collect all the necessary information of the project and its client. Consultancies and reference shall be taken from time to time to established books of standards like NBC, Neuferts, and time savers.
- 3. Apart from this, a detailed study of the site, it's potential to the rootlevel.
- 4. A demographic study of the surrounding areas is also imperative as it will influence important decisions regarding the usage pattern of the facility and the level of involvement and contact with the adjoining areas.
- 5. Study the special configuration of buildings. Study of the activity and movement in side the site. Study of its impact on the city.
- 6. Area program based on the results from case study reviews. Comparative analysis between the buildings and relevant justification.
- 7. Literature study. Further study on some more similar topics and making a comparison note for all of them emphasizing on the merits and demerits.
- 8. Framing of requirements and area analysis Requirements are framed out and area chart finalized which maybe altered as per the design5. Concept design development Literature study, site study and analysis, case study to develop appropriate design language. Centralize the same process spaces to maximize the efficiency.
- 9. Develop integrated design solution.





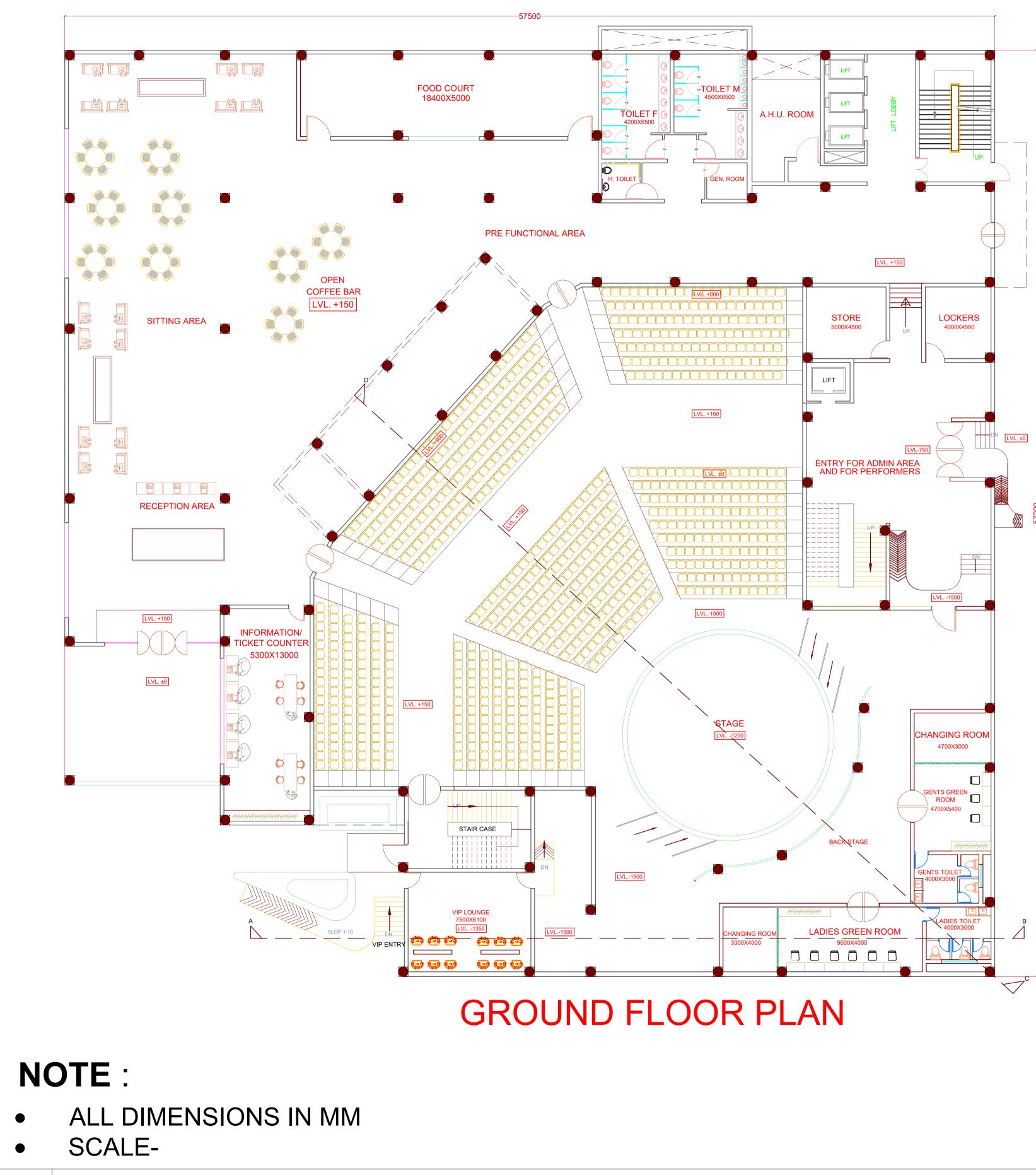
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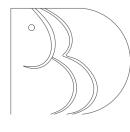


B.Arch V Year Thesis 2023-2024

#### **BIBLIOGRAPHY**

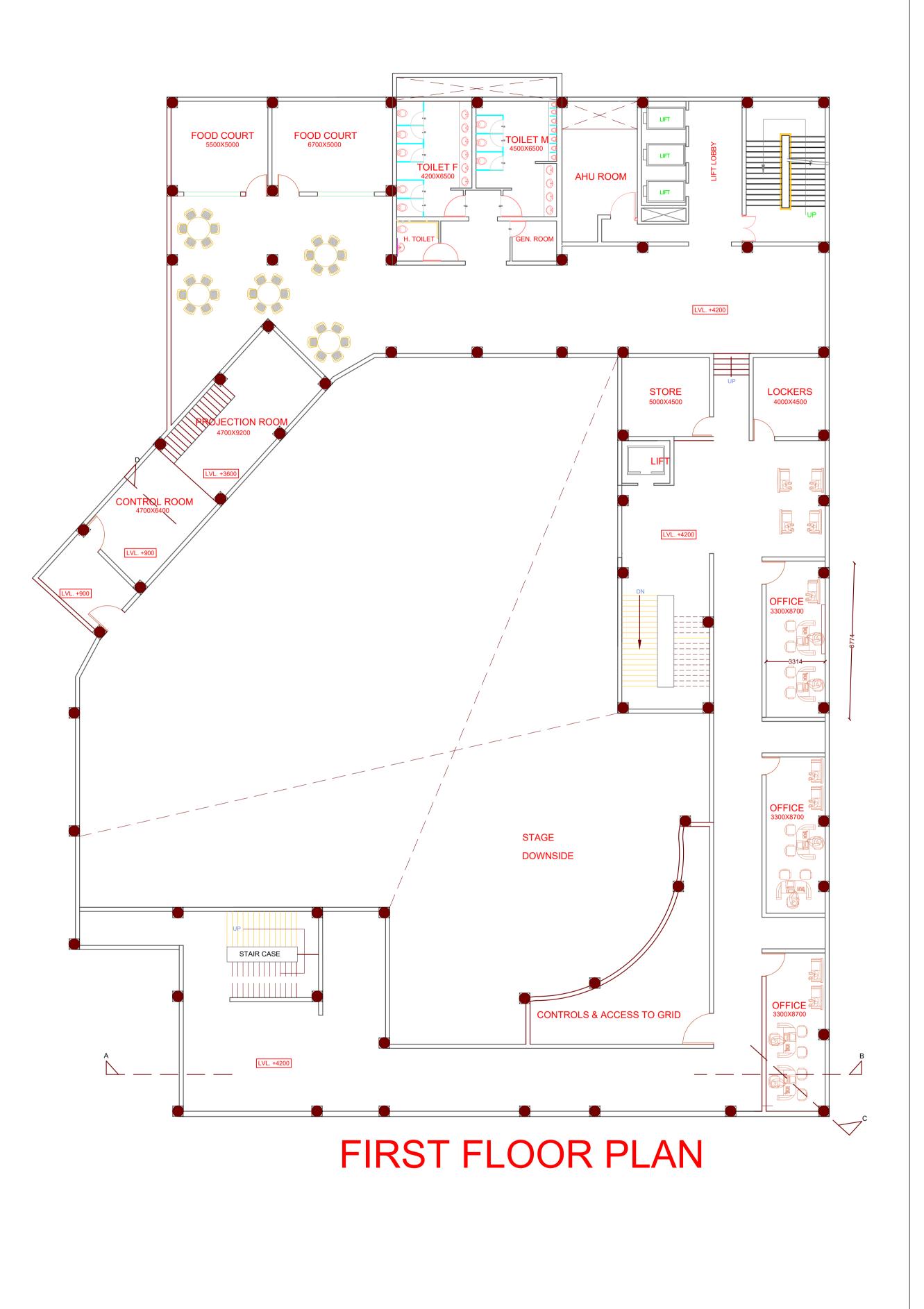
- 1. https://en.wikipedia.org/wiki/Convention center
- 2. <u>https://blog.lane-end-conferences.co.uk/blog/the-history-of-conference-centres</u>
- 3. GOOGLE
- 4. REPORTS ON CONVENTION CENTRES, ETC.
- 5. RESEARCH PAPER
- 6. LIBRARY



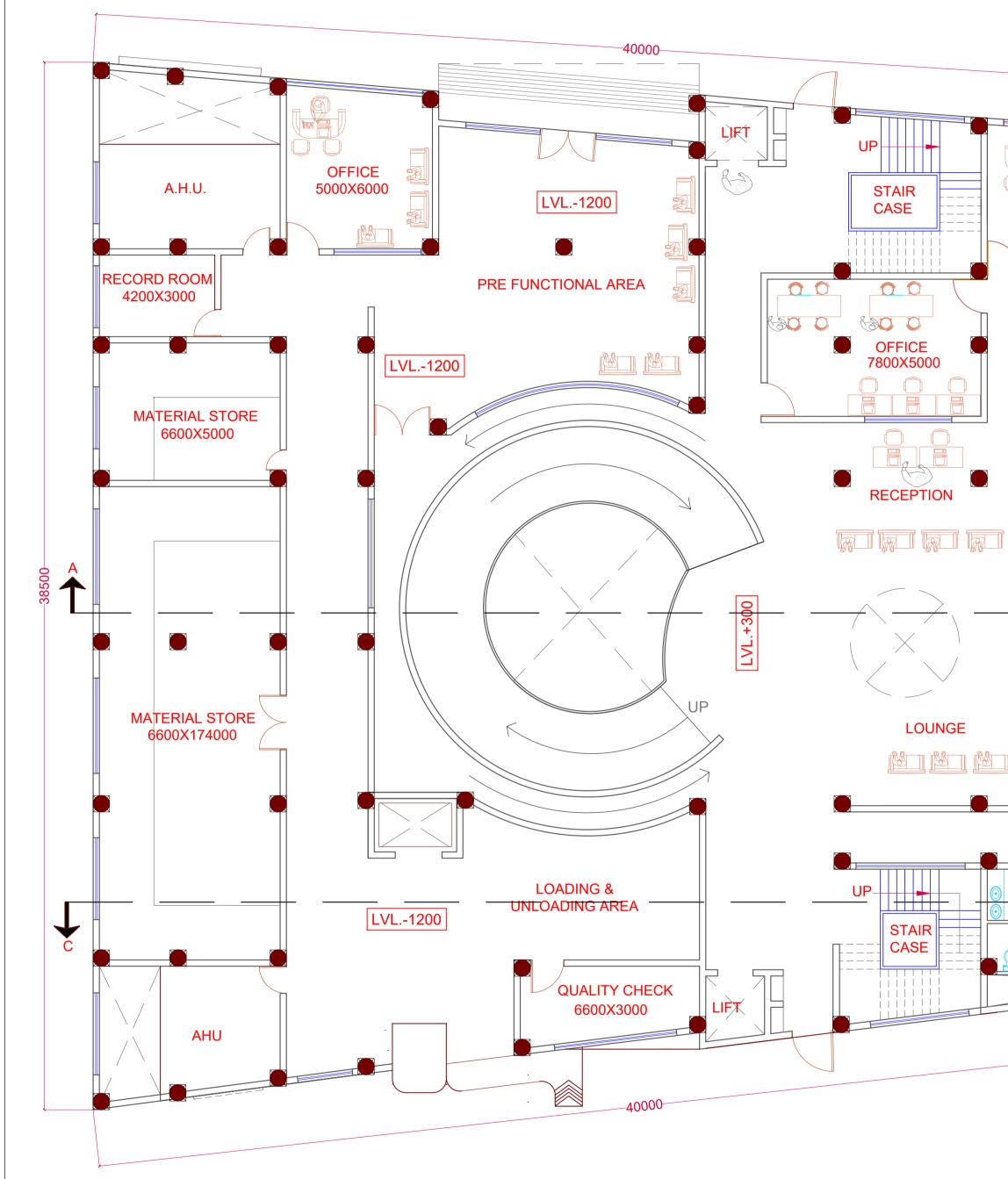


# AUDITORIUM BLOCK





**THESIS GUIDE PROF. SANGEETA SHARMA** 



# **GROUND FLOOR PLAN**

#### NOTE :

- ALL DIMENSIONS IN MM
  - SCALE-



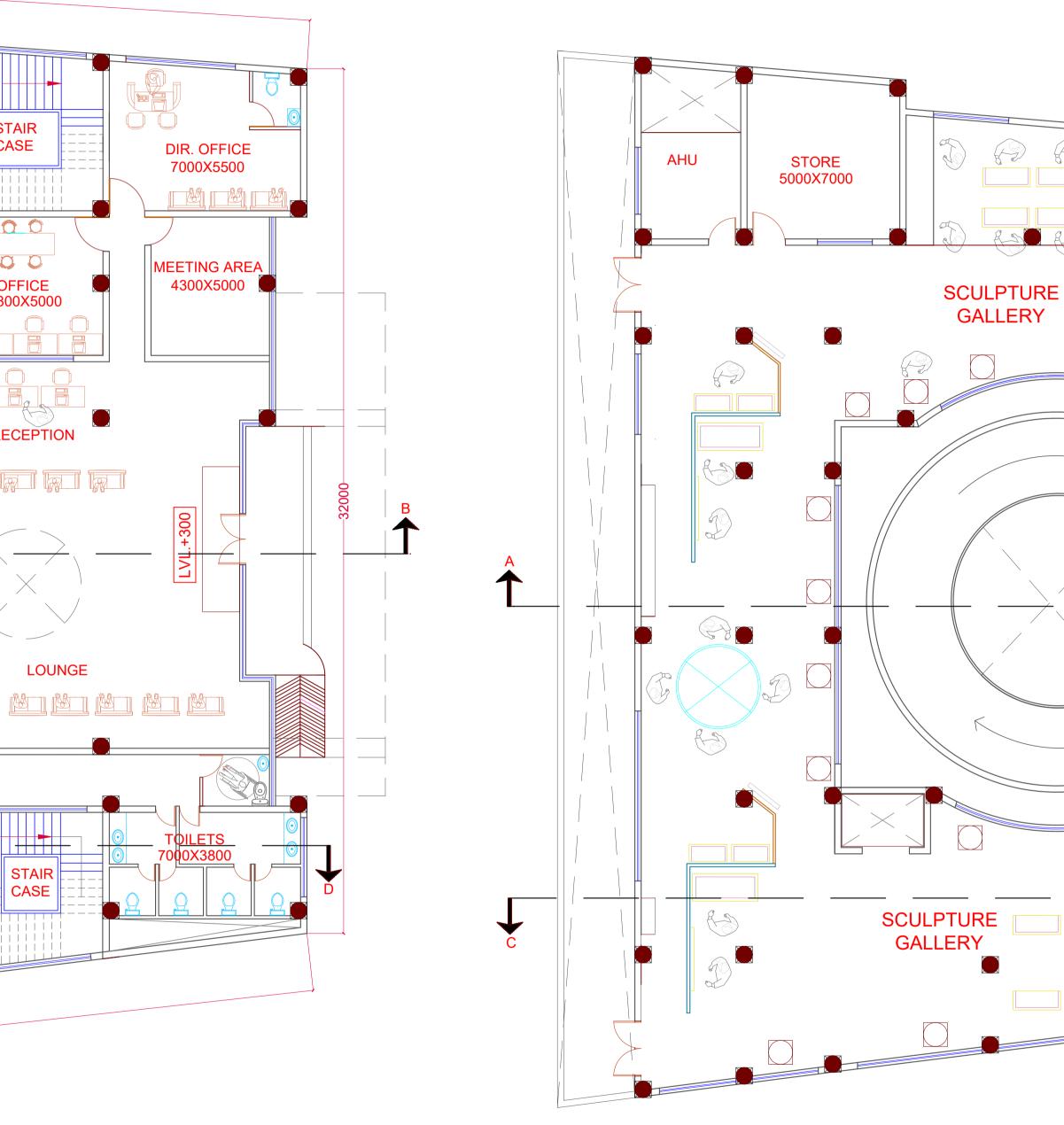
# MUSEUM BLOCK

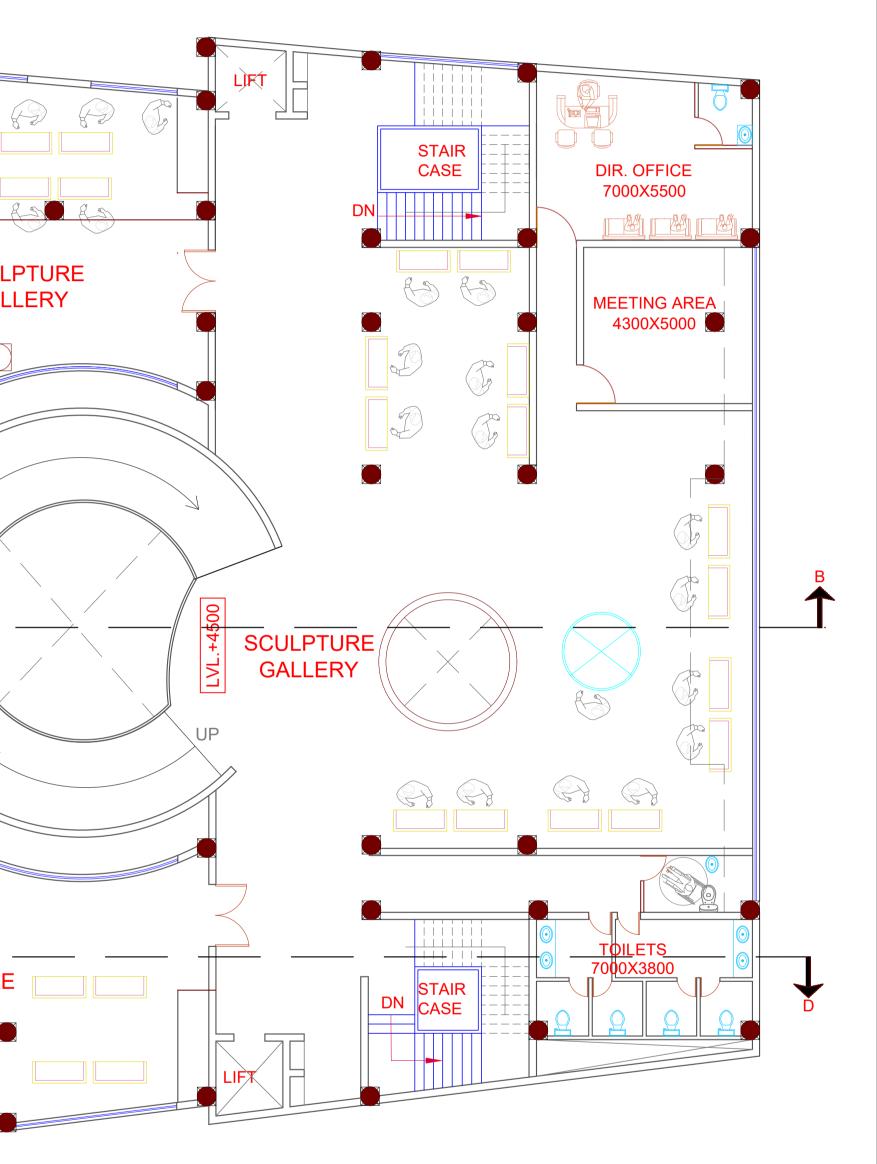




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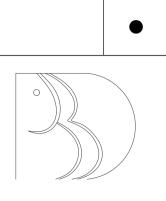
GALLERY





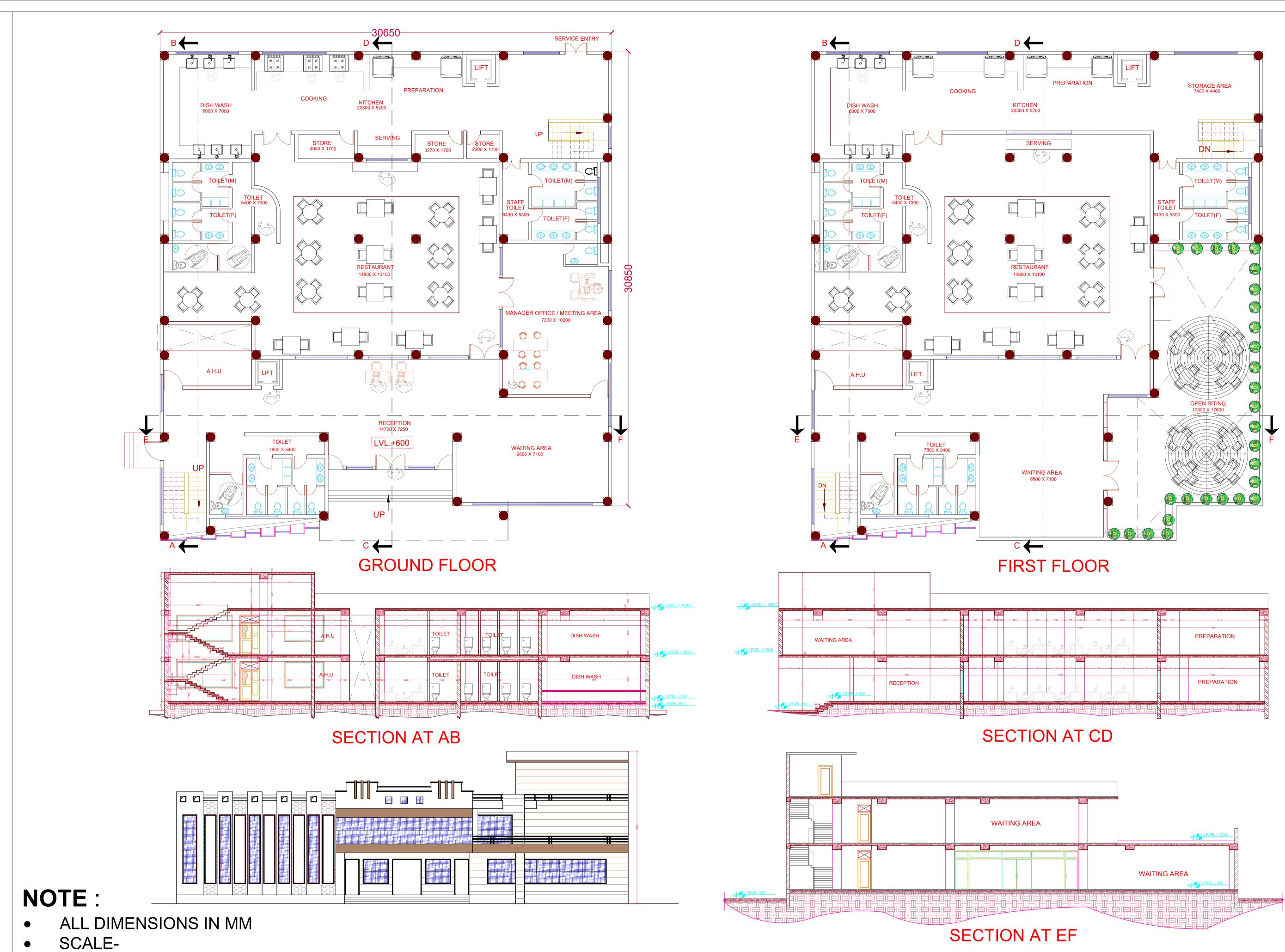
FIRST FLOOR PLAN

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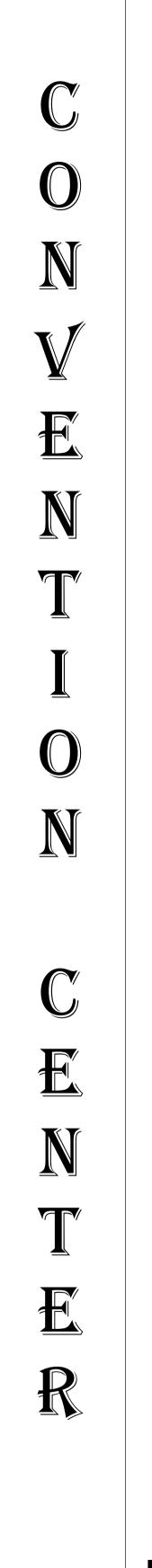
# CAFETERIA BLOCK

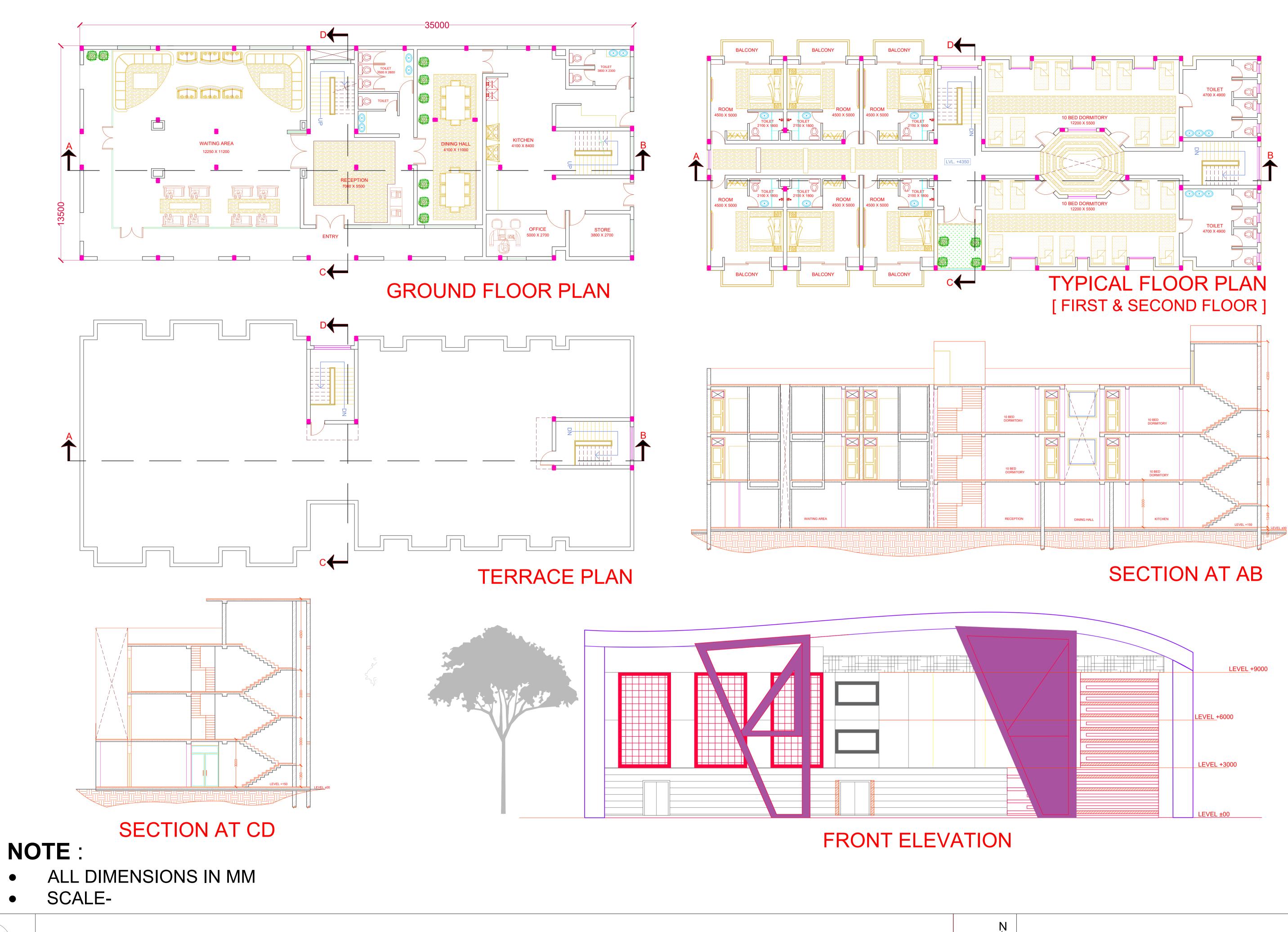


### SECTION AT EF

THESIS GUIDE **PROF. SANGEETA SHARMA** 

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	i M						PREPARATION	
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	3140- 			1 1			PREPARATION	





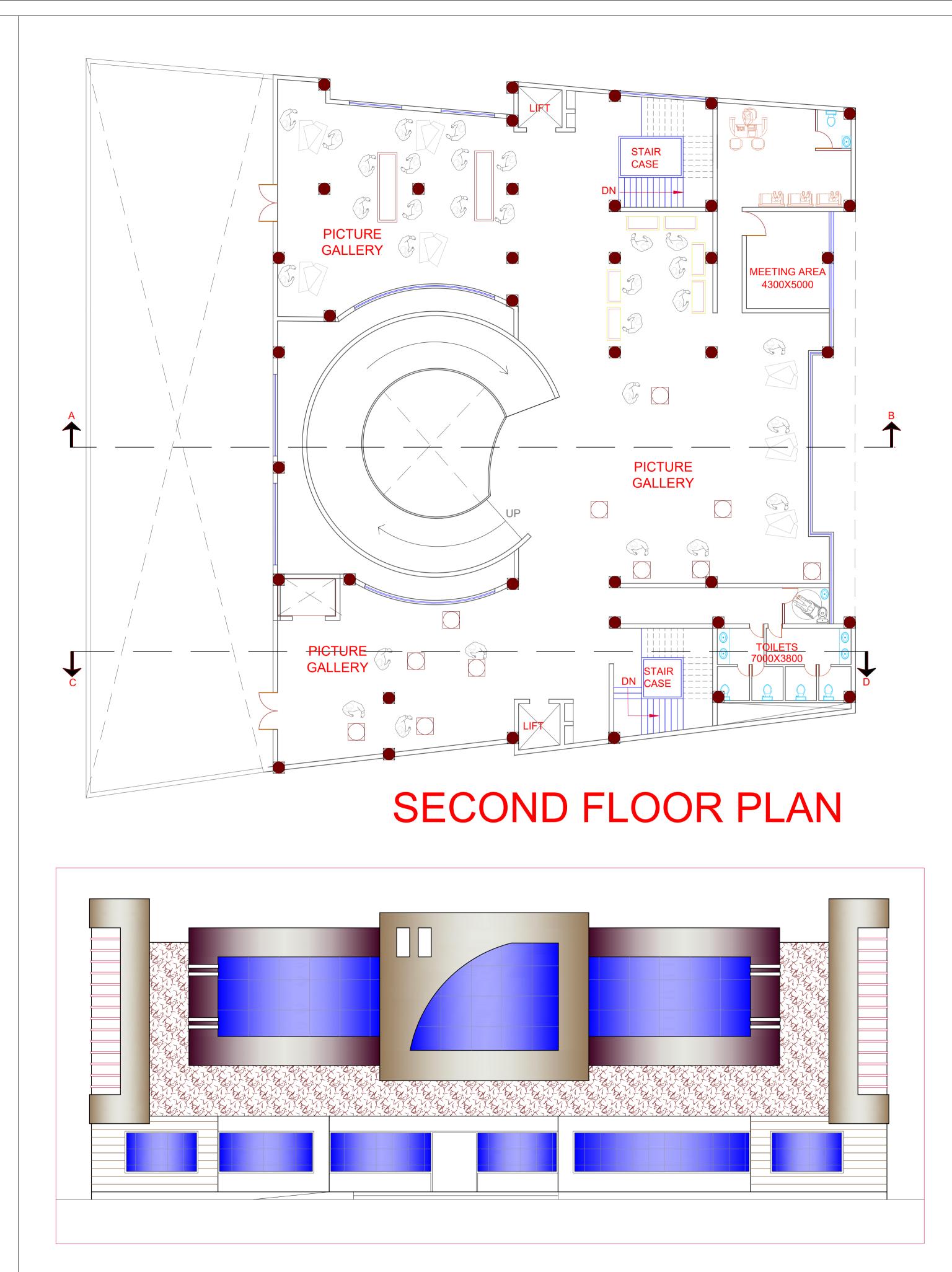
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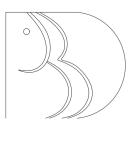
# GUEST HOUSE BLOCK

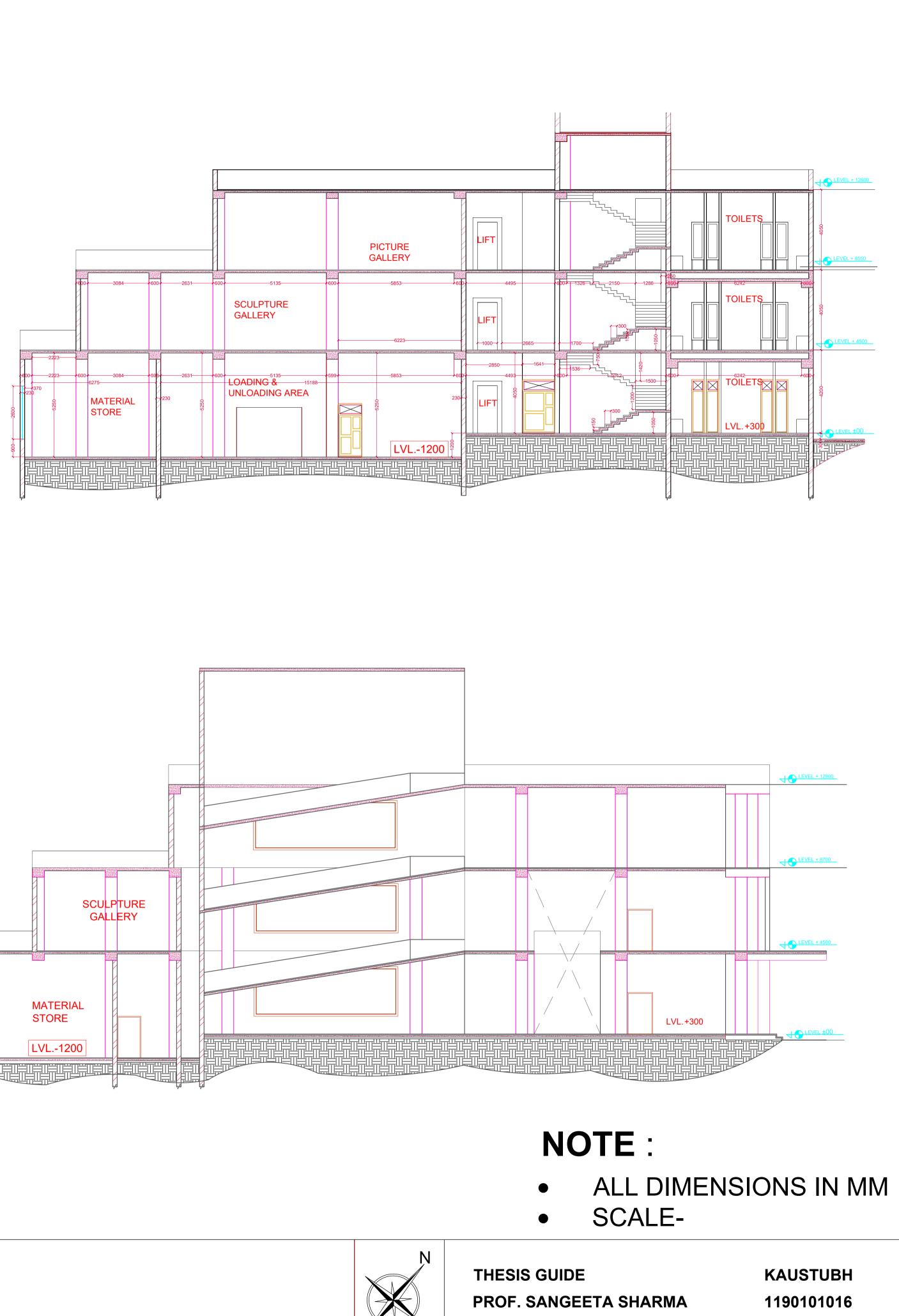


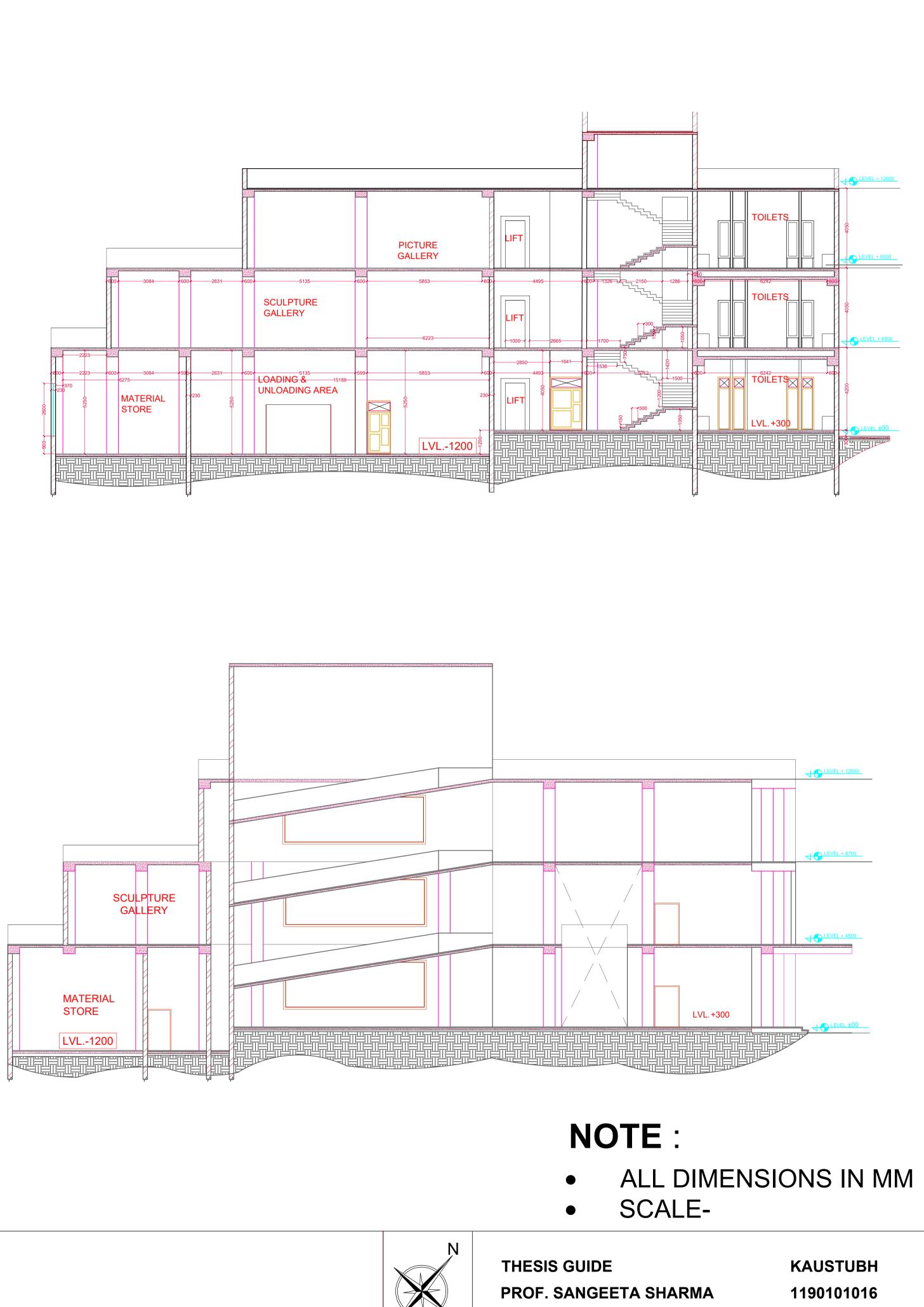
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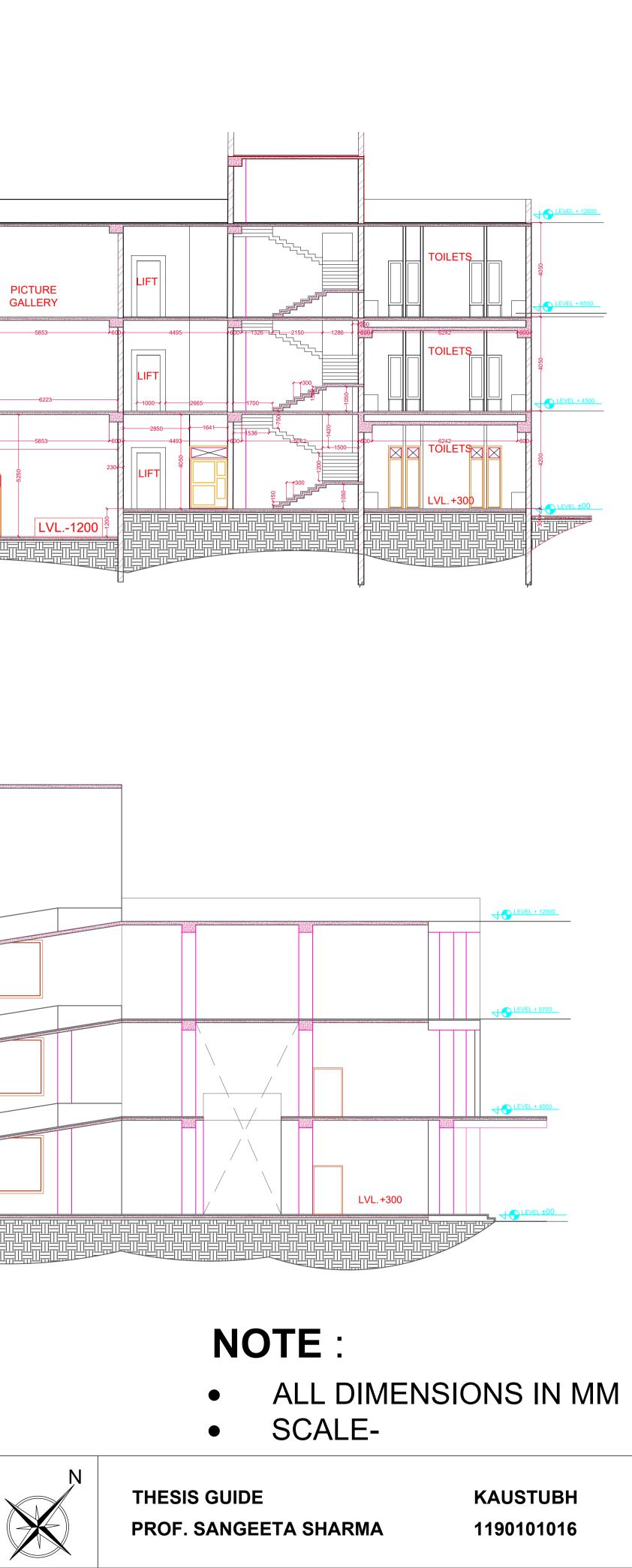


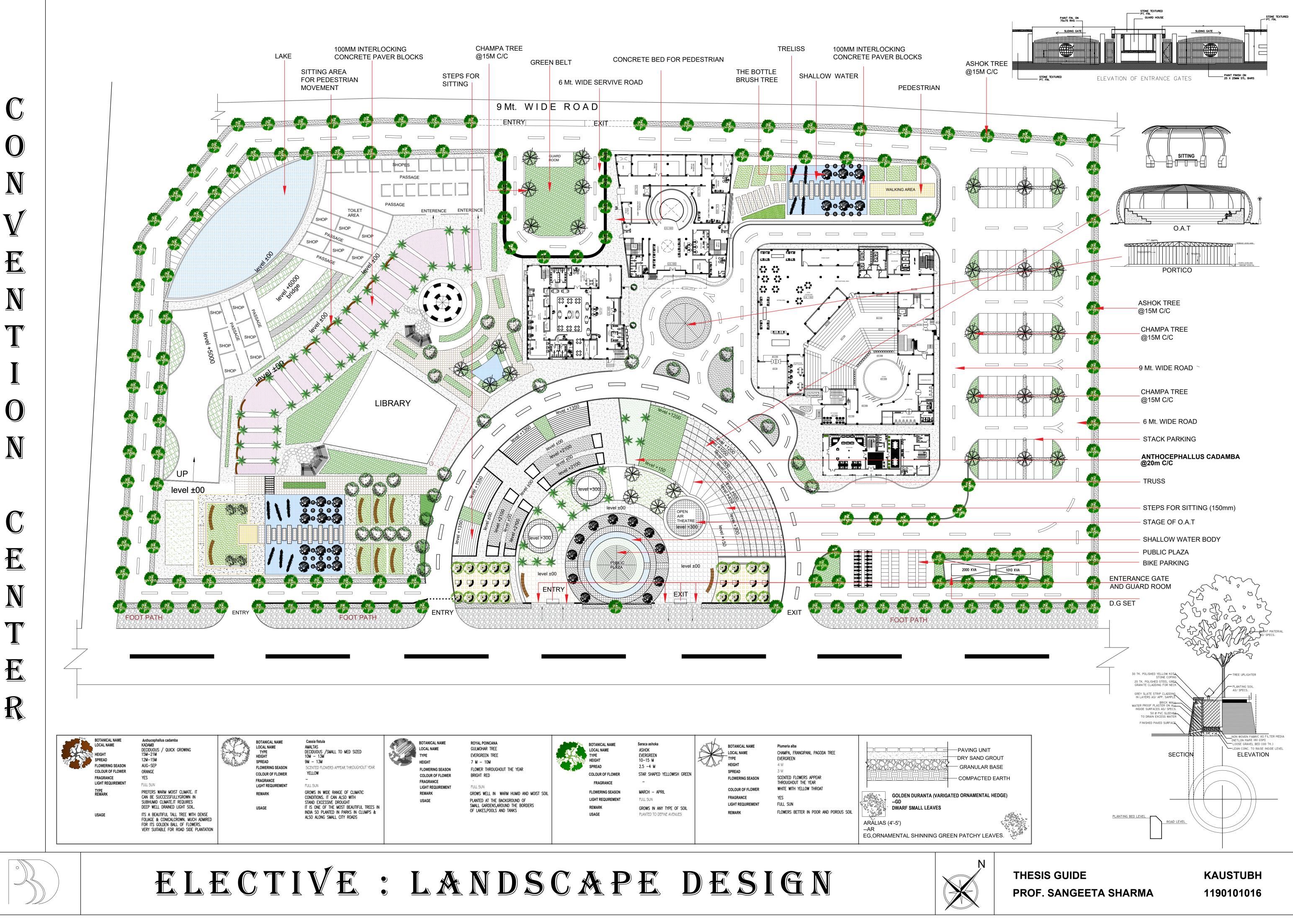


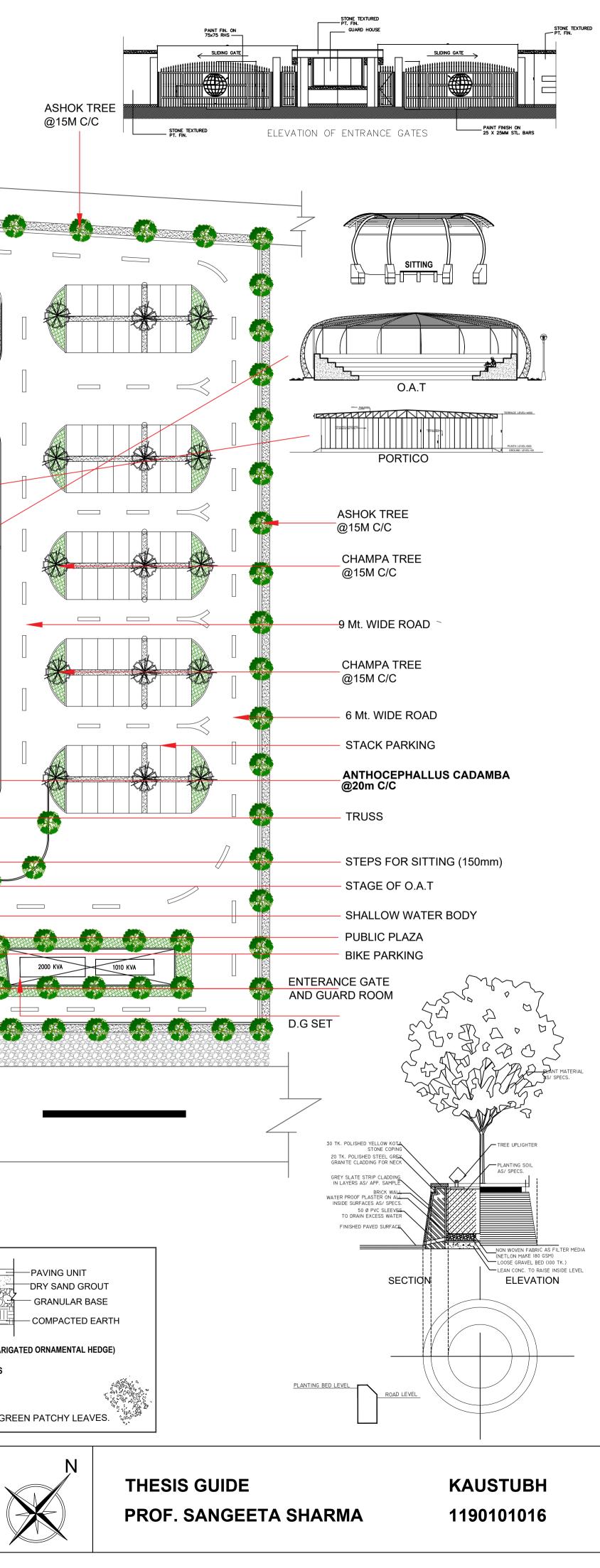


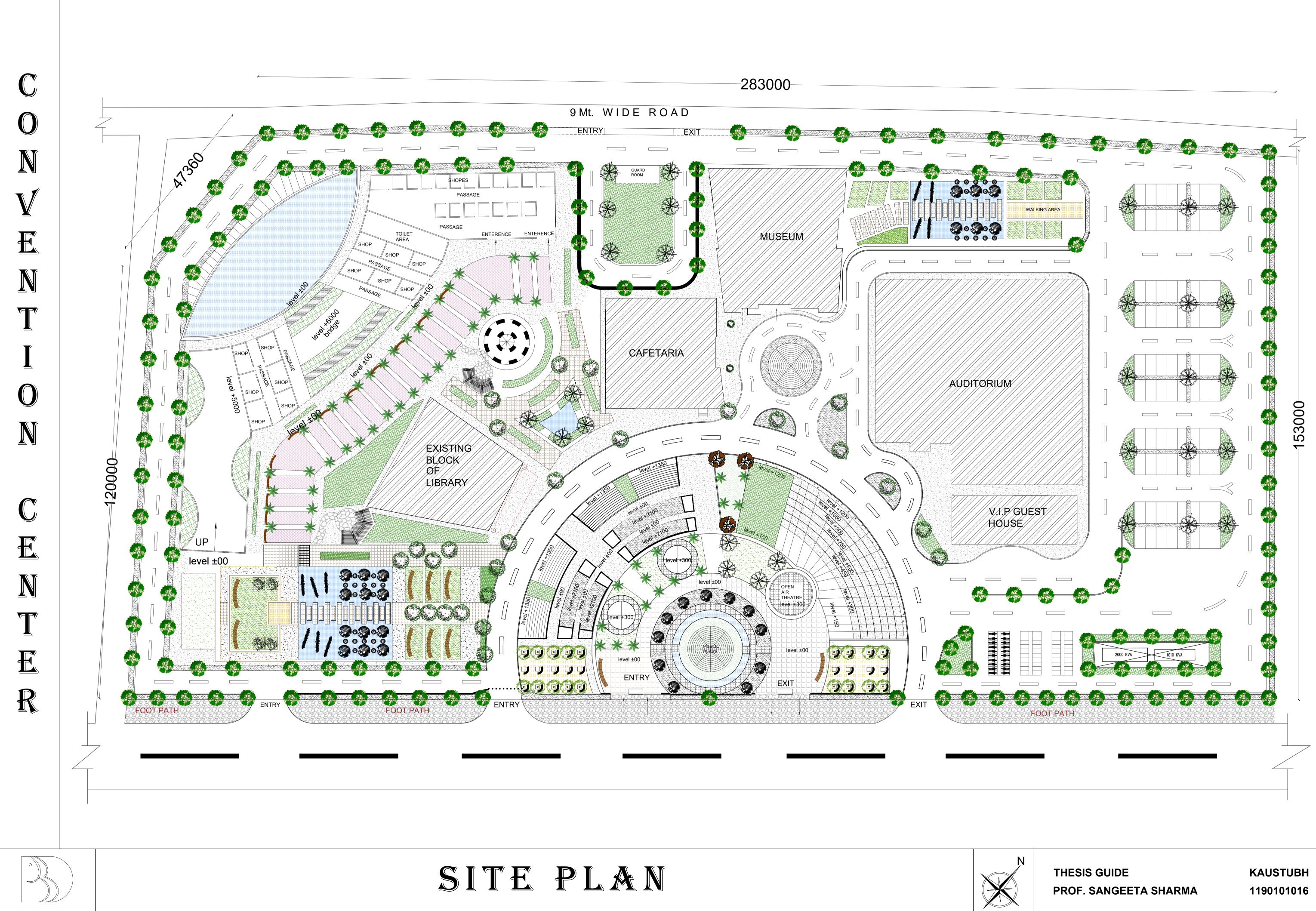












#### **INTRODUCTION:**

Varanasi, the land of lord Shiva is also land of many ancient and exquisite arts. To boost moral of Such artists by providing a platform to showcase their art, the TFC (Pd. Deendayal Hastkala Sankul) is an art museum with distinct galleries like textile, hand loom, carpet, wood carving and many more.

The TFC & CM project located at Bada Lalpur, Varanasi, being developed by Ministry of Textile on **7.93 acres** land and having constructed area of around 43,450 sqm. The project is expected to be completed by August 2017 and will offer facilities such as Convention hall, Exhibition area, Shops, Marts, Food Court, Restaurants, Guest Houses, Dormitories, Offices, Crafts Museum and Amphitheater along with support infrastructure and amenities focused at providing integrated platform for promotion of Handloom, Handicrafts and Carpet Sector of Varanasi region.

#### FACILITIES

- Convention hall
- Exhibition area
- Shops
- Marts
- Food Court
- Restaurants
- Guest Houses
- Dormitories
   Offices
- Crafts Museum
- Amphitheatre
- Basement parking

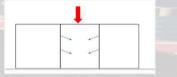
SUN PATH Wind flow during Sumpler Season

CONCEPT

TO WELCOME SUNLIGHT AND TO CHECK COLD WINDS DURING WINTER.

AS SITE DOES'NT OFFER ANY OUTSIDE VIEW

SUN AND WIND PATH



INTROVERTED DESIGN FOR ITS OWN VIEW





The project is strategically located near between NH-29 (Varanasi Gorakhpur Road) and NH-56 (Varanasi Sultanpur which shall reduce travel time to TFC from Varanasi Airport o 30 mins.

- Name of Project- Trade Facilitation Centre & Crafts Museum at Varanasi.
- Owner-Ministry of Textiles Govt. of India.
- Site Area/Location 7.93 Acres land near Kendranchal Colony at Bada Lalpur, Varanasi.
- Construction Agency-Tata Projects Limited.
- Construction Started-2014
- Construction completed-2017

#### **Supporting Facilities provided:**

•Surface Parking with Parking capacity (82 no's of cars approx.)

•Stand-by generator Supply and Uninterruptible Power Supply

- Central Air-conditioning and Ventilation System
- •Kitchen and Food Kiosks provided with Exhaust System • Lifts and Escalators
- Lifts and Escalators
- •Fire Detection, Firefighting and Public Address System • EPABX, Server Room

#### **CRAFT MUSEUM ENTRANCE**

- Rain Water Harvesting System
- Sewage Treatment Plant (STP)
- Fresh Water and Treated Water Supply
- Internal Electric Substation

**PROF. SANGEETA SHARMA** 

HVAC Plant Room

**THESIS GUIDE :** 

- •Pump Room and Under Ground / Over Head Tanks
- Emergency exits for easy evacuation

•Interestingly landscaped and shaded courtyards with water bodies of international standard

#### TRADE FACILITATION CENTRE AND CRAFTS MUSEUM, VARANASI

#### KAU\$TUBH 1190101016

#### **FACILITY CHART**

Floors	BLOCK 1 Marts cum Office	BLOCK 2 Convention Centre cum Exhibition	BLOCK 3 Food Court cum Guest House	BLOCK 4 Shopping Arcade	Entrance Plaza	BLOCK 5 Museum
Basement (2 levels)	Parking capacity (369 no	s of cars 434 no's of 2 wheelers	approx.)	-	-	
Exhibition Space (open courtyard)     Public Amenities     A     E     A     C     e		<ul> <li>Convention Centre with VIP Lounge and green rooms.</li> <li>Atrium (Triple height)</li> <li>Exhibition Gallery</li> <li>Atrium and convention center can be converted to exhibition space.</li> <li>Public Amenities</li> </ul>	reen • Kitchen Area/ Store • Indoor Seating Area • Courtyard Seating Area • Public Amenities • Courtyard can be	Entrance Plaza with courtyard surrounded with 18 M high petals	Not applicable in the present scope of work	
1st Floor	<ul> <li>Marts (13 no's)</li> <li>ATMs (2nos)</li> <li>Gallery (1no)</li> <li>Public Amenities</li> </ul>	Marts (8 Nos)     Exhibition Gallery all around atrium     Public Amenities	<ul> <li>Restaurants (2nos) with Kitchen Areas</li> <li>Public Amenities</li> </ul>	<ul><li>Shops (14 no's)</li><li>Lounge</li></ul>	-	
2nd Floor	Marts (15 Nos)     Business Centre     Public Amenities	Marts (4 Nos)     Exhibition Gallery all around atrium.	<ul> <li>15 Nos Dormitory Rooms (Total 81 Beds)</li> <li>Office Space</li> <li>Lounge Seating</li> <li>Public Amenities</li> </ul>	NA	-	
3rd Floor	Marts (13nos)     National Centre for     Trade Information	NA	Double Occupancy Guest Rooms with attached toilets (18 no's),     Common Hall and Pantry Office Space     Public Amenities	NA		

#### **BLOCK 1: MARTS CUM OFFIC**

G+3 structure, having total bu 6,050 sq. mt (excluding basemer

#### Lift lobby with 3 passenger ele

Ground Floor : The around floo consists of Marts (11 Nos) and a courtyard capable of hostin exhibitions

First Floor: The first floor of the of Marts (13 Nos), 2 ATM blocks gallery capable of hosting events exhibitions

Second Floor The second floo consists of Marts (15 Nos) and bu Third Floor The third floor of the

of Marts (13 Nos and National Ce Information.

CE BLOCK:	Description	Total Units	Unit Size (mm)
uilt-up area of		3	3735 x 8185
nts).	Mort	1	3935 x 8185
	Mart	1	3905 x 8185
evators.		6	3920 x 8185
or of the block		3	3735 x 8185
a large central		1	3935 x 8185
ig events and	Mart	1	3905 x 8185
-		7	3920 x 8185
		1	4655 x 8185
block consists	ATM	2	3780 x 4220
and exhibition	Gallery	1	7535 x 17955
is and	Business center	1	1 7905 x 17955
		3	3735 x 8185
or of the block		1	3935 x 8185
usiness center.	Mart	1	3905 x 8185
e block consists		7	3920 x 8185
entre for Trade		1	4840 x 8185
chuc for flaue	National Centre for Trade Information	1	28720 x 7420

#### FLOOR PLANS OF BLOCK 1 (MART CUM OFFICE)



#### **Facilities Available**

•Marts are provided as warm shell facility with all basic amenities installed such as flooring, false ceiling, partitions, ambient lighting, central air-conditioning etc. as per the design quidelines for the facility.

• All core services such as electrical, fire alarm, fire-fighting, air-conditioning, plumbing, power backup etc.

•Business center and National Centre for Trade Information Office are provided as warm shell facility with all basic amenities installed along with office furniture.

Lift lobby with 3 passenger elevators.

• Public amenities for gents, ladies and physically handicapped.

•Common areas are non-air conditioned and finished with flooring, false ceiling, ambient lighting, firefighting, systems, PA system etc



#### TRADE FACILITATION CENTRE AND CRAFTS MUSEUM, VARANASI

**THESIS GUIDE : PROF. SANGEETA SHARMA** 

#### BLOCK 2: CONVENTION CUM EXHIBITION HALL

G+2 structure, having total built-up area of 7560sq. mt (excluding basements).

**Ground Floor** The ground floor of the block consists of triple heighted state of the art convention center sizing 52 M x 33 M. The convention hall is accompanied with VIP lounge, green room for both male and female participants along with adequate public amenities. The triple heighted atrium provides a grand entrance to the block and capable of hosting events and exhibitions.

**First Floor** consists of Marts (8 Nos) along with Exhibition Gallery.

Description	Total	Jnits	Unit Size	(mm)		
	1		10420 x 3735			
Mart	5		10420 x 3920			
Wart	1		7790 x 3920			
	1		7790 x 4	4105		
Second Floor consists	of Marts (4 N	os) along wi	th Exhibit	ion Galle		
Description	Total U	nits	Unit Size (mm)			
	1		10420 x 3735			
Mart	2		10420 x 3920			
	1		10420 x 4105			
		SIZE (sqft)	AREA(sqft)	NO'S		
	CONVENTION	172'-9" X 110'-9"	19135	1		
Facilities Available	PRE FUNCTION	218'-0"X 81'-9"	17820	1		
		1 11 6		<b>CI</b> .		

 Convention Hall shall be provided as warm shell facility with flooring, false ceiling, acoustical door, electrical fixtures, central air-conditioning, speakers etc. as per the design guidelines for the facility. Only connectivity facilities are provided for future Audio Visual connectivity. Convention hall shall be provided with approx. 600 SEATS

collapsible/retractable theater style seating.

• VIP lounge shall be provided with toilet, pantry and restroom

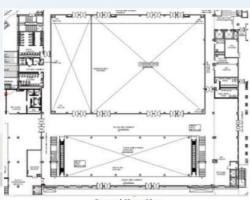
•Marts shall be provided as warm shell facility with flooring, false ceiling, aluminum glazed door, electrical fixtures, central air-conditioning, power points, telephone and data points etc. as per the design guidelines for the facility.

•Common areas are air conditioned and finished with flooring, false ceiling, ambient lighting, firefighting, systems etc.

Lift lobby with 2 passenger elevators.

•All core services such as electrical, fire detection and fire-fighting, PA system, air conditioning, plumbing, power backup etc.

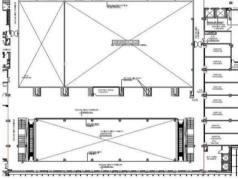
• 2 sets of escalators between ground and first floor.





ALL N

- Salar



First Floor Plan



#### **OVERALL PLANNING**

• The theatre is a fan shaped typology.

•The auditorium is surrounded by two fovers each of 130 sam

• Two staircases occupying area of 30 sgm. Each is located in both sides.

•Toilets on both the sides are located adjoining the foyer each with 6 cubicles and an area of 70 sgm.

•At the back stage there is a 6m wide corridor.

•Beside this corridor various spaces such as : 1.lift lobby 2.conference rooms

#### DETAILS

- Distance between seats and stage : 4.2
- Height of the ceiling: 3.5 M in the last ro Elina At

7.2 M in the first row

6.5 M from the stage.



- Distance between each row (seating) is 0.50 M
- Slope angle: 10 deg
- Aisle Width : 1.5 M at the first row.
- Duct spacing: 2.5M
- Speaker spacing: 2M

#### STRUCTURAL DETAILS

• The auditorium is mainly held by an RCC framed system. •The two shorter sides contains 7 columns and the longer sides contains 5 columns.

• Centre to Centre column distance is 6M.

•The slab is monolithic and is two way slab surrounded by columns.

#### AUDITORIUM PLANNING

• Fan shaped form.

•It has 4 Aisles each of varying width from 1.5 to 2.1M.

- The stage has an area of 100 SQM
- It has totally 21 rows.
- Each row contains 30 seats.

#### MATERIALS

- Wood Panels.
- Fabric foor floor.
- Glass wool for insulation.
- Accoustic Panels.
- Steel Doors

#### TRADE FACILITATION CENTRE AND CRAFTS MUSEUM, VARANASI

**THESIS GUIDE : PROF. SANGEETA SHARMA** 



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#### **BLOCK 3: FOOD COURT CUM GUEST HOUSE:**

**G+3 structure**, having total built-up area of 7470sq. mt (excluding basements).

**Ground Floor** The ground floor of the block consists of food court with both indoor and outdoor seating spaces. The courtyard space has been envisaged to be converted to form exhibition space or area for other activities as per requirement. The floor comprises of the following components

Description	Total Units	Unit Size (mm)
Kiosk1	7	3920 x 5570
Kiosk2	1	3735 x 5570
Kiosk3	1	4910 x 13640
Cash Counter	2	5140 x 2585
Kitchen Addition Area	1	18045 x 2770
Indoor AC seating area	1	40900 x 13700
Outdoor Seating area	1	26600 x 26970

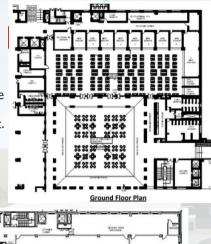
**First Floor** First floor consists of restaurants as detailed below

Description	Total Units	Unit Size (mm)
Restaurant 1	1	30155 x 14790
Restaurant 2	1	13025 x 19270
Kitchen Space	1	28610 X 5500
Shop	1	2400 x 2255

**Second Floor** Second Floor consists of dormitories and an office space as detailed below:

Description	Total Units	Unit Size (mm)	Beds
Dormitory (Type 1)	1	10420 x 7700	10 Nos
Dormitory (Type 2)	1	7790 x 5875	6 Nos
Dormitory (Type 3)	2	5255 x 8785	5 Nos Each
Dormitory (Type 4)	4	3920 x 8785	5 Nos Each
Dormitory (Type 5)	2	8220 x 3920	4 Nos Each
Dormitory (Type 6)	1	8220 x 4970	4 Nos
Dormitory (Type 7)	1	10485 x 5685	6 Nos
Dormitory (Type 8)	1	5560 x 11070	6 Nos
Dormitory (Type 9)	1	3905 x 11070	6 Nos
Dormitory (Type 10)	1	4105 x 11070	5 Nos
Office	1	6340 x 11770	

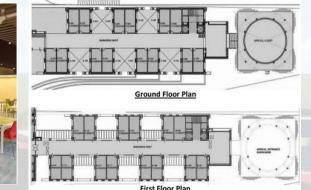
- 81 single occupancy beds and lockers shall be provided for dormitories.
- Two service lifts and staircase are provided at the service core.
- 2 sets of public utility facility for gents, ladies and physically handicapped for convenient approach from dormitories.
- 2 Lift lobbies with 2 passenger elevators each and one staircase



#### 

#### **BLOCK 4: SHOPING ARCADE**

**G+1 structure** having total built-up area of 2,300 sq. mt. Shopping Arcade has a total of 28 Shops, located on Ground and First floor levels, having aa area of about 320 Sq. ft.





#### BLOCK 5: CRAFTS MUSEUM

The Museum block, **a G+2 structure** having total built-up area of 3950 sq. mt **Amphitheater**: The open air theatre surrounded by the arms of the Museum Block has been designed to accommodate 250 to 300 guests and shall host multiple cultural events and light and sound shows.





**Third Floor** Third Floor consists of total 18 double occupancy guest rooms with attached toilets and an office space.

Second Floor Plan

#### TRADE FACILITATION CENTRE AND CRAFTS MUSEUM, VARANASI

AMPTICE TOTAL

-

MART-CA NACESSER

MART-28 VEHICLE

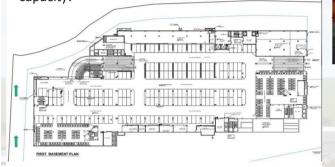
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1

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#### **BASEMENT LEVEL**

The basement is of 2 levelsconsisting total parking of 369 cars and 434 2 wheelers capacity.



#### **BASEMENT PLAN 01**



#### **BASEMENT PLAN 02**

#### **BUILDING MATERIALS** FLOORING

- Vitrified tiles are used for flooring of Interior space,
- Flooring of common area is of sand stone flooring.
- Flooring of open courtyard is of stone flooring.
- Flooring of convention all is of Granite.

#### CEILING

- Acoustical Tile Flooring in the interior spaces.
- Gypsum Board False ceiling in the open area.
- Gypsum False Ceiling in the convention hall.

#### FURNITURE

- Retractable Seating in the convention hall.
- Planters and inbuilt seating's in the open courtyard.

BUILDING INFRASTRUC	TURE
---------------------	------

#### **1. DETAILS OF WATER TANKS**

**OVERHEAD TANKS** 

Fire		Office	Convention	Food	Shop	Museum	
		10,000 L	10,000 L	10,000 L	10,000 L	10,000 L	
Domestic		9,000 L	14,000 L	32,000 L		9,500 L	
Flushing		6,000 L	9,000 L	3,000 L		6,500 L	
HVAC (Water tank)		35,000 L	-		-	-	
UNDER GROUND TANKS							
Number of tanks (Raw / Dom	estic / Fire)	1,10,000 L (Raw Water	Tank)				
Capacity		1,10,000 L (Treated Water Tank)					
		1,00,000 L X 2 ( Fire Ta	ank) = 2,00,000 L				
	2. DETAILS	OF LIFTS AND	STAIRCASES				
DESCRIPTION		QUANTITY					
Staircases in the		e building 11		11			
Lifts		11 LIFTS (16 PAX EACH)		ACH)			
	Good lift	02 Lift ( 1600 Kg Each)		ch)			
Escalators			2 No	2 Nos			

3.Air conditioning is total of 3 each 400 TR.

4. Fire protection system provided with Wet risers, Sprinklers, Gas suppression system, Portable fire extinguishers.

5.Fire Alarm System provided with smoke detectors, total number of is 2076. 6.CCTV system- Total dome cameras is 120, total bullet camera 54, total PTZ camera 40.

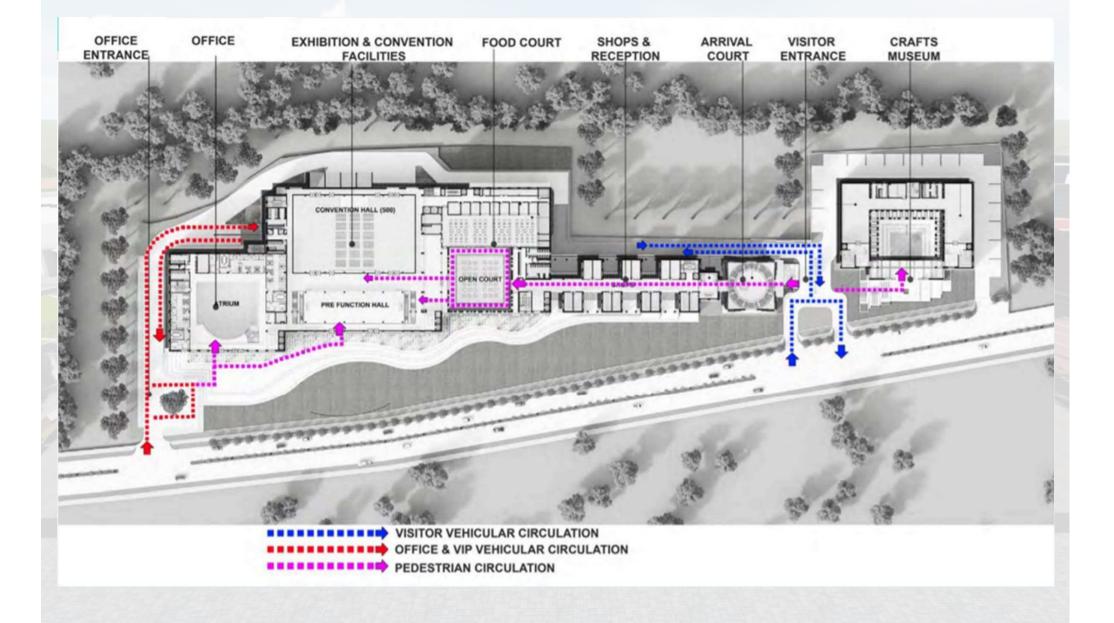
**7.Landscaping** – Area of the lawn is 16000 sqm. 2 fountains, area are 35 sgm and 60sgm respectively.

#### DESCRIPTION OF AVAILABLE FURNITURE

S No	Description	Size	Qty					
		Food Court & Dinning				1		
_	Café Table-1	750mm x 750mm x 750mm	11		-	X2		
2	Café Table-2	1200mm x 750mm x 750mm	68				F75	
3	Café Table-3	1800mm x 750mm x 750mm	15	1	1000			
4	Café Chair Indoor	-	328		-			
		Office Furniture						
1	Workstation-1	1200mm x 1650mm x 1200mm	17			7		
2	Workstation-2	1200mm x 1500mm x 1200mm	27			A DECK OF BELLEVILLE		
3	Workstation-3	3200mm x 2700mm x 1200mm	5		-	1 (A		
4	Workstation-4	3200mm x 2700mm x 1200mm	3				TANY	
5	Workstation Chair		39		9			
6	Manager Chair		8					
7	Office Visitor Chair		16		F		The second se	
8	Executive Table with Side Unit	MD-2200mm x 1190mm x 750mm	2	_				
		ERU-1380mm x 480mm x 700mm		- 8				
		Pedestal- 406mm x 550mm x 640mm				-		
9	Executive Back Unit	2410mm x 425mm x 1215mm	2			Faith Star Co ages		
10	Executive Main Chair		2					
11	Executive Visitor Chair	-	6		2.00			
12	Discussion Table -1	1500mm X 600mm X 750mm	3		and the second			
13	Discussion Table -2	1350mm X 600mm X 750mm	2			in the second		
	Discussion Chair	÷	24					
15	Sofa 3 Seater	•	2					
	Sofa 2 Seater (For VIP Lounge)		6					
17	Sofa 1 Seater		13					
18	Side Table	500mm x 500mm x 428mm	14					

#### TRADE FACILITATION CENTRE AND CRAFTS MUSEUM, VARANASI

**THESIS GUIDE : PROF. SANGEETA SHARMA** 



#### TRADE FACILITATION CENTRE AND CRAFTS MUSEUM, VARANASI

THESIS GUIDE : PROF. SANGEETA SHARMA

Indira Gandhi Pratishthan which is the largest science and technology centre in

Uttar Pradesh. Indira Gandhi Pratishthan situated in Lucknow, India which is a perfect venue for all types of events & trade shows.

climate.

**ABOUT:** - The Indra Gandhi Pratishthan is a building is memorial to Smt. Indra Gandhi. - It is visualized as a symbol and institutional monument. The project was designed by Sikka Associates Delhi.

#### LOCATION AND SURROUNDINGS: STATE - Uttar Pradesh.

**DISTRICT-**Lucknow. **AREA** - 25 Acre (1,01,171 sqm) -It is located in Vibhuti Khand Gomti Nagar, lucknow. To its north is the New Lucknow High Court and to its south is the TCS building and

Omex 20nvenient



#### APPROACH TO THE SITE- CHAUDHARY CHARAN SINGH I TERNATIONAL AIRPORT: 24.4 KMS. VIA NH 27 •CHARBAGH RAILWAY STATION: 11 KMS. INDIRA NAGAR METRO (3.0 KMS.)

>Lucknow experiences COMPOSITE

>It experiences monsoons during the

months of July- September.

#### **ELEVATION**







#### **PLANNING CONCEPT: -**

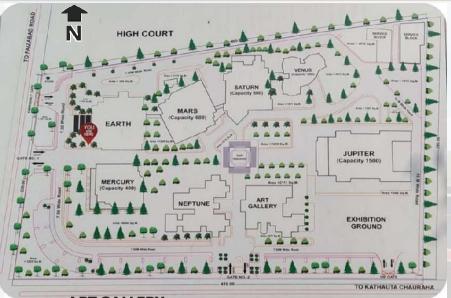
In Indra Gandhi Pratishthan, the campus consists of eight blocks. -

All the blocks are planned around the Indira Stambh which is the focal point of the campus. - All the blocks are two or three storey high. Indra Gandhi Pratishthan has two entrance gateways from two roads. 1-6m the west 2- From the south. Mandi Parishad road, - Use of pink Dhaulpur stone and rough chisled red sandstone on the facade gives a feeling of boldness, which reflects the bold personality of Indra Gandhi.

- **1. ART GALLERY**
- 2. NEPTUNE
- **3. JUPITER**
- 4. MERCURY
- 5. EARTH AND PLUTO
- 6. MARS 7. SATURN
- 8. VENUS



Based on the Concept of 'PLANETS OF SOLAR SYSTEM' IN MEMORIAL TO SMT. INDIRA GANDHI.



#### **ART GALLERY**

- It is a three story high building.

#### SITE PLAN

- A central atrium with staircase and ramp for handicapped connecting floors.
- It is provided with halls for display, painting and sculptors, workshop area and office area for staff.



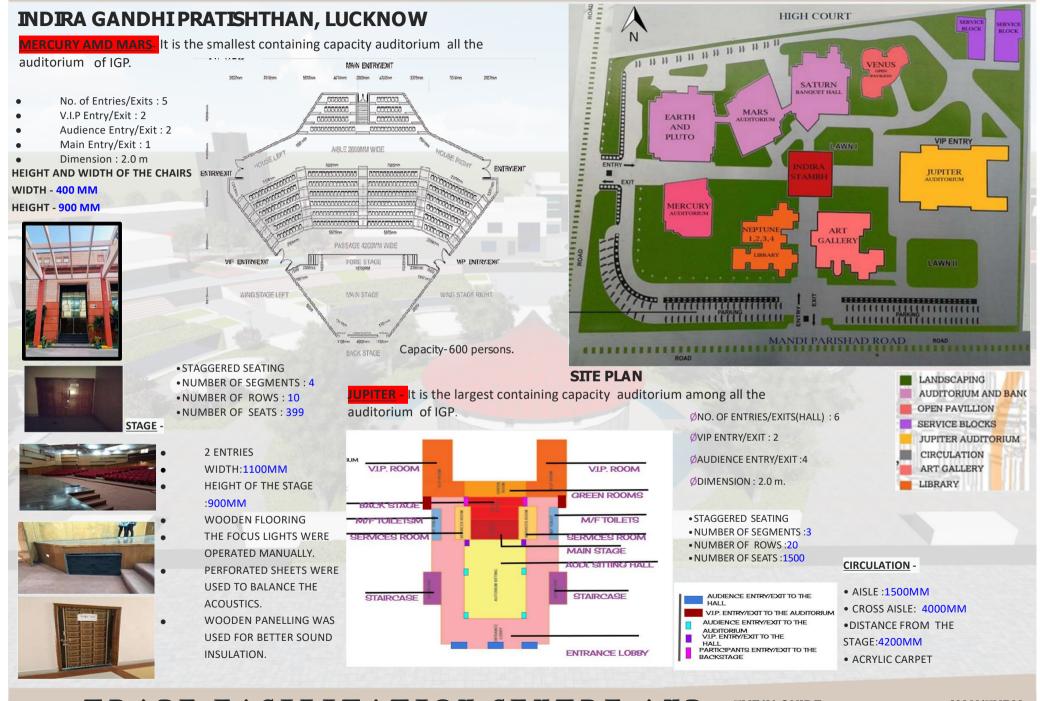




INDRA GANDHI STUMBH.

#### TRADE FACILITATION CENTRE AND CRAFTS MUSEUM, VARANASI

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#### **CONFERENCE AND COMMITTEE HALL (EARTH)**

- This is a three storey building
- It is provided with an entrance foyer, committee halls, conference halls, offices and VIP Suits.

The building has three entrances. - The main entrance is for the guests approached by a flight of steps which lead to the first floor. - The side entry is for the staff leading to the offices on ground floor the other entry is for VIP and leads directly to the VIP lounge.

- GROUND FLOOR
- Conference Hall.- Capacity 100 seats. 2 lounges- VIP and VVIP.
- FIRST FLOOR

FIRST

FLOOR

PLAN

- Conference Hall- capacity 60 seats and 40 seats.
- SECOND FLOOR
- Auditorium- Capacity 200 Media Centre



#### FLOOR TREATMENT Meeting Hall- Carpet.

Committee hall-Carpet Offices- Tera kota. Toilet- Vetrified Tiles

Pantry- Vetrified Tiles Corridors- Vetrified tiles

#### **EXTERNAL FAÇADE**

Dhaulpur stone. Red chiscled sandstone



#### SERVICE BLOCK

The service block consists of

- 3 AC Plants
- 450 TR each.
- Boiler-300 KW
- 4 Chillers-60 HP each.
- 4 Condenser- 50 HP each -

#### Cooling Tower- 400 TR each. BANOUET HALL Generator- 320 KVA each

- This is a single storey building.
- It has a huge hall which serves for marriage and receptions.
- It is provided with an enterance foyer, a hall (40.95 x 20.81m) and kitchen at the rear end of the building.

#### LIBRARY

- It has an administration room, stacking room andan audio visual room.
- Reading hall is provided on the ground floor as well as the first floor.
- Rare books section is provided on the second floor.

#### LANDSCAPPING

-Landscaping has been provided along the periphery of the campus and between the building blocks.

- Small trees, hedges and flowering plants are planted in the planter.
- Trees like Gulmohar and Palm are planted along the sides of internal roads.
- Lawns are provided in the campus which are rented out for marraiges and parties.
- 60% of the site is dedicated to landscaping and circulation.

#### - LIGHT AND VENTILATION.

- Most part is enlightened by naturallightiing.
- Large windows have been provided to give proper lighting in the corridors.
- Central atriums have been provided in the conf.and committee block, art galleries and library block

which provides difused light. SERVICES SECURITY:

- Security gourds are stationed 24 hr on the gates
- A proper record is maintained of everyone who enters the buildings. CCTV cameras moniter the movements on each floor.

#### - FIRE FIGHTING :

- Smoke detectors and sprinklers areinstalled.
- Fire hoes are provided on each floor along with fire hydrants.

#### **TRADE FACILITATION CENTRE AND**THESIS**CRAFTS MUSEUM, VARANASI**PROF.

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#### SURFACE TREATMENT -

- •The auditorium have floors which are covered by carpets and walls with acoustic panels.
- Stage having wooden flooring and gypsum false ceiling.
- Green rooms have kota stone on floor.

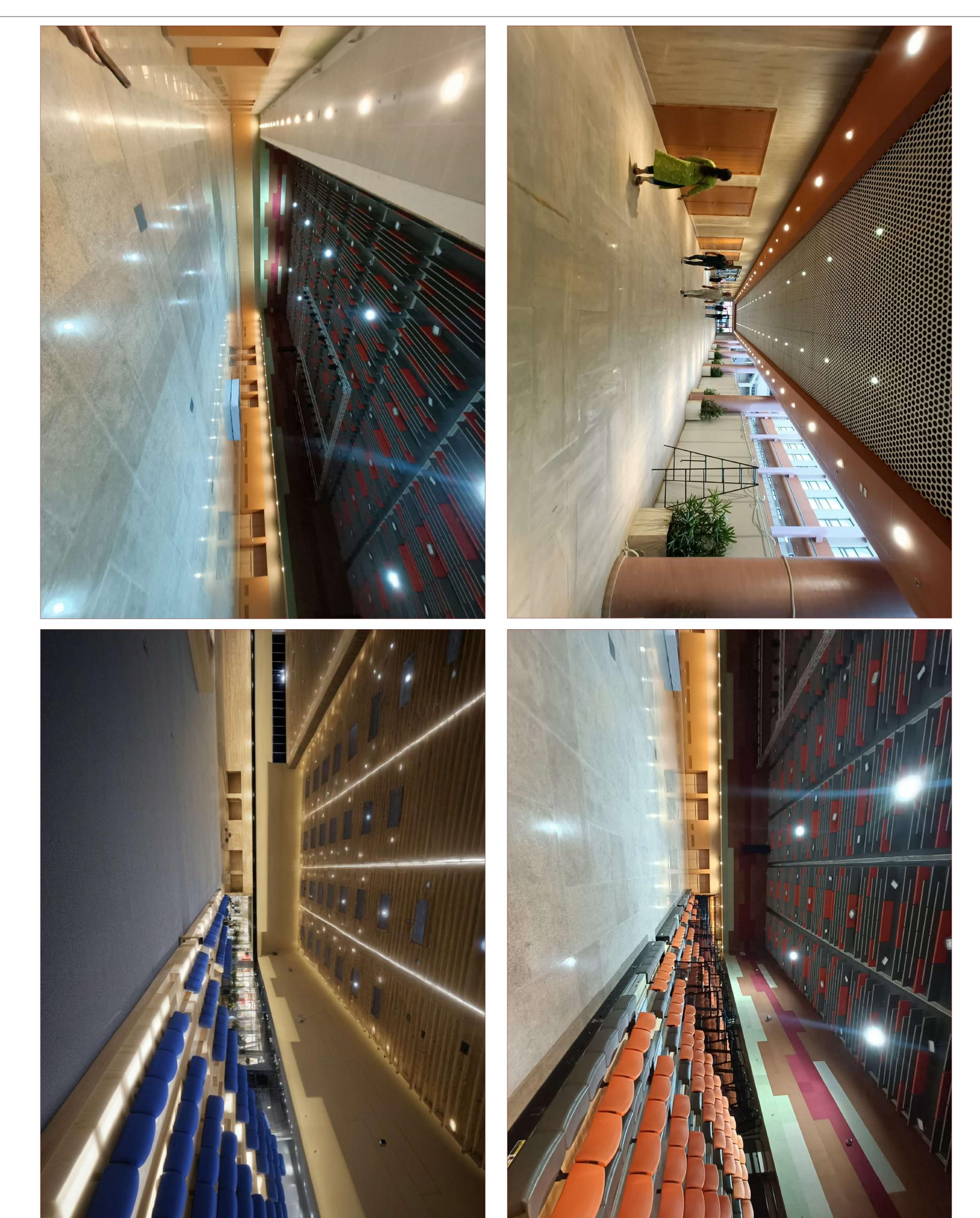
•The entrance foyer, lobbies and corridors have vetrified glazed tiles for flooring and sand stone cladding on walls and gypsum for ceiling



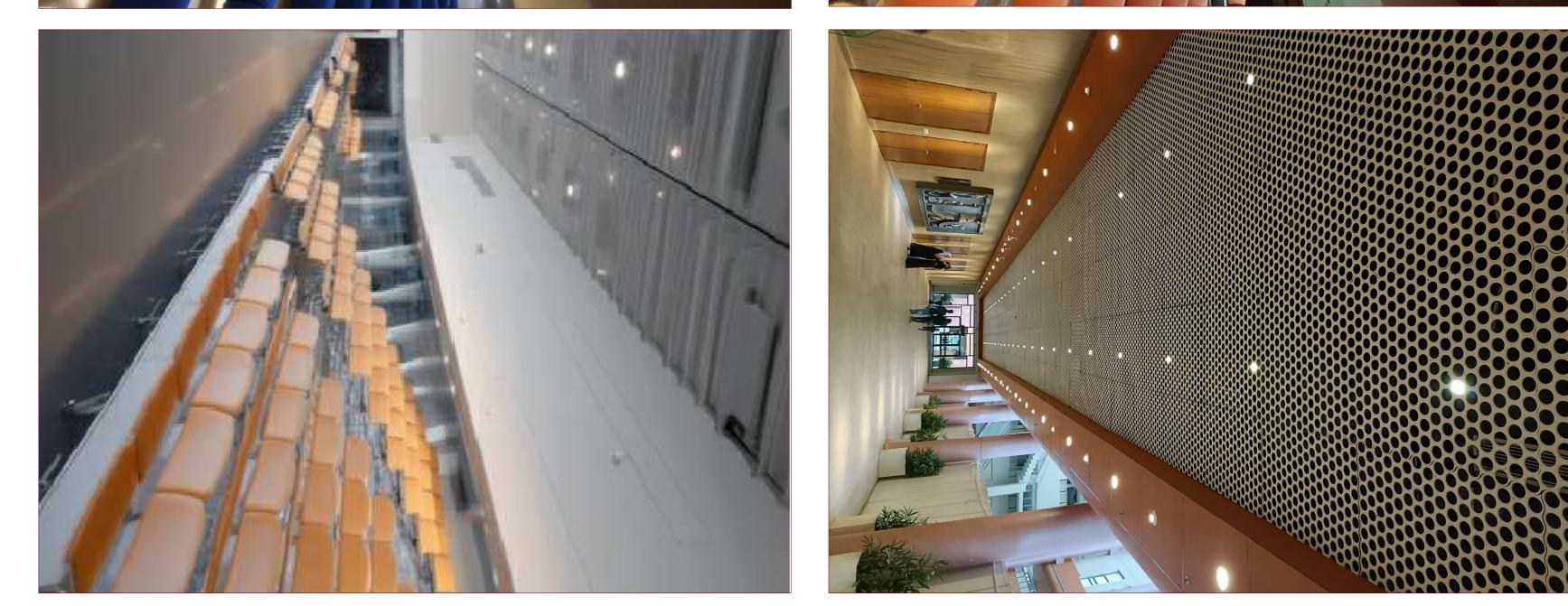




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# OR DRSIGN



#### LITERATURE STUDY-01

12 50.0



#### LIFT

Total lift : 2

Passenger Lift

- 6 person at time
- Barrier free movement

#### **NEAREST STOPS**

Central secretariat metro station – 4 k.m. Indira Gandhi international airport – 10.5 k.m. New Delhi railway station – 6.2 k.m.

**Museum Entrance:** 

 Security and Museum Staff in the room on the left side at the entrance.

 Information Desk in the room on the right side of the entrance. Headphones, etc.

#### WATER SUPPLY

Under ground

- 50.000 L
- Used for Fire Over Head
- 3,00,000 L Used for Drinking Toilet

#### TOILETS

1Male and 1 Female unit on each floor 4 WC and 2 Wash Basin

The Nehru Memorial Museum and was established under the following objective

- To maintain a Museum of Jawaharlal Nehru personalia, memorabilia, mementoes and other objects pertaining to his life and the Indian freedom movement.
- . To acquire, maintain and preserve papers of nationalist leaders of Moden India and other eminent Indians who distinguished themselves in any field
- To establish and maintain a library on the history of Modem India.
- . To organize, undertake, conduct, encourage and promote study and research in the field of modem Indian history.
- To institute and award fellowships and to foster academic contacts within India as well as with other countries through exchange of personnel and research materials.

This site measuring 3 acres for the memorial, 8.9 acres (approx.) for the Centre for Performing & Visual Arts and approximately 28.75 acres stretch

Leisure Valley along Outer Dakshin Marg and Udyan Path in Sector- 42-D, Chandigarh, has been earmarked for the Project. The site is easily accessible.

#### CONCEPT

A Samadhi designed as a unique

architectural form embodying the

values of fearlessness, valour. secularism, national unity, integration and communal harmony which the Late S. Beant Singh symbolized.

#### NEAREST STOPS

Airport - 12.8 k.m. Railway station – 12.8 k.m. Nearest ISBT Sector 43 :- 1.7 Km

Site Area =11.9 acres ( 518364 sq.ft.) Total covered area =282583 sq.ft. Ground coverage =11 % approx FAR =0.54



	n while it is for a	
Souvenir Shop - 50 sq.m	Library - 396.73 sq.m	Art Storage - 88.2 sq.r
Toilets - 66.6 sq.m	Gallery - 147.3 sq.m	Office space - 87 sq.n
Temporary Exhibition - 172 sq.m	Primer Gallery - 147 sq.m	Security area - 61.2 so

Period Rooms	Library
Circulation	Gallery





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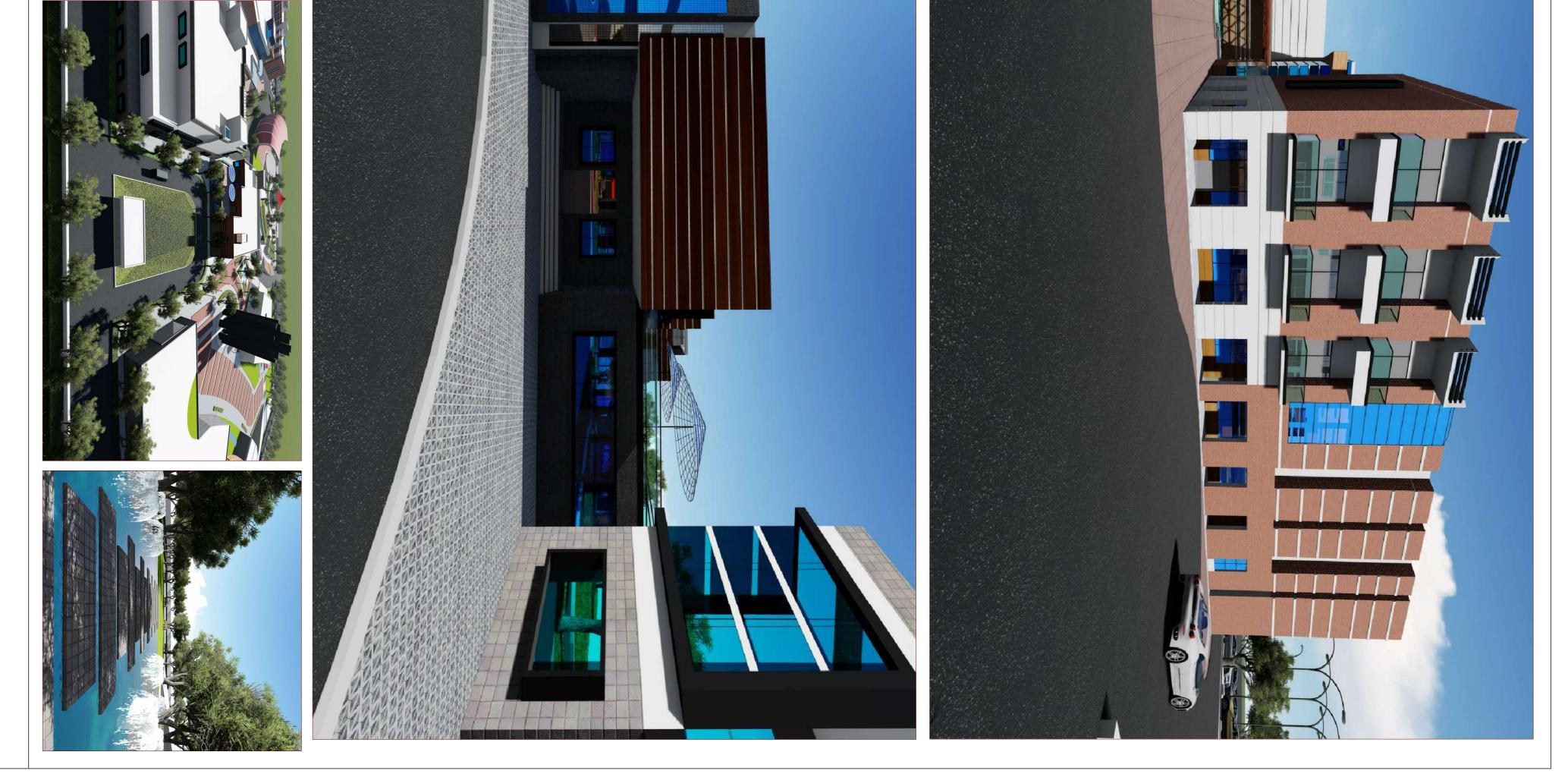


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