



**THESIS REPORT ON
CONVENTION CENTER, GORAKHPUR**

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

**BACHELOR OF ARCHITECTURE
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**(PRATEEK NISHAD)
(ROLL NO. 1200101017)**

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CERTIFICATE

I hereby recommend that the thesis entitled "CONVENTION CENTER, GORAKHPUR" 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.

Prof. Sumit Wadhera

Dean of department

Prof. Sangita Sharma

Head of department

Recommendation

Accepted

Not Accepted

External Examiner

External Examiner

BABU BANARASI DAS UNIVERSITY, LUCKNOW (U.P.).

Certificate of thesis submission for evaluation

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Name:

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Roll no:

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S.NO	<u>CONTENTS</u>
1.	INTRODUCTION <ul style="list-style-type: none"> a) AIM AND OBJECTIVE b) NEED OF THE PROJECT c) SCOPE AND LIMITATIONS d) METHODOLOGY
2.	STANDARDS <ul style="list-style-type: none"> a) SPACE REQUIREMENTS b) SPACE STANDARD
3.	<ul style="list-style-type: none"> a) CASE STUDY -1 (INDIRA GANDHI PRATISTHAN- LUCKNOW) b) CASE STUDY -2 (BHARAT MANDAPAM – NEW DELHI)
4.	<ul style="list-style-type: none"> a) LITERATURE STUDY – 1 (HYDERABAD INTERNATIONAL CONVENTION CANTER) b) LITERATURE STUDY – 2 (JAIPUR EXHIBITION AND CONVENTION CENTER (JECC))
5.	SITE STUDY <ul style="list-style-type: none"> a) INTRODUCTION b) SITE ANALYSIS c) CLIMATE ANALYSIS d) SITE SURROUNDING
6.	AREA ANALYSIS
7.	CONCEPT <ul style="list-style-type: none"> a) FORM EVOLUTION b) SITE ZONING c) FRAMED AREA REQUIREMENTS d) DESIGN REQUIREMENTS
8.	DRAWINGS
9.	BIBLIOGRAPHY

CHAPTER – 1 INTRODUCTION

- AIM AND OBJECTIVE
- NEED OF THE PROJECT
- SCOPE AND LIMITATIONS
- METHODOLOGY

1.1 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 Center 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 Center, mumbai



convention Center, 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.



1.2 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 Center where people can gather to share and earn various experiences. These Center emphasizes both public and private events. Encourages tourism developments, business developments, cultural activities, social gathering and amusements. Convention Center provides an opportunity for mixing, sharing and evolving values, morals, customs and ethics. It helps us in understanding the others feelings, beliefs and expectation.

1.3 AIM

The aim is to examine the evolving roles of these institutions in contemporary society, focusing on how they can adapt, innovate, and leverage technology to remain relevant, engaging, and impactful in promoting education, cultural enrichment, and community engagement.

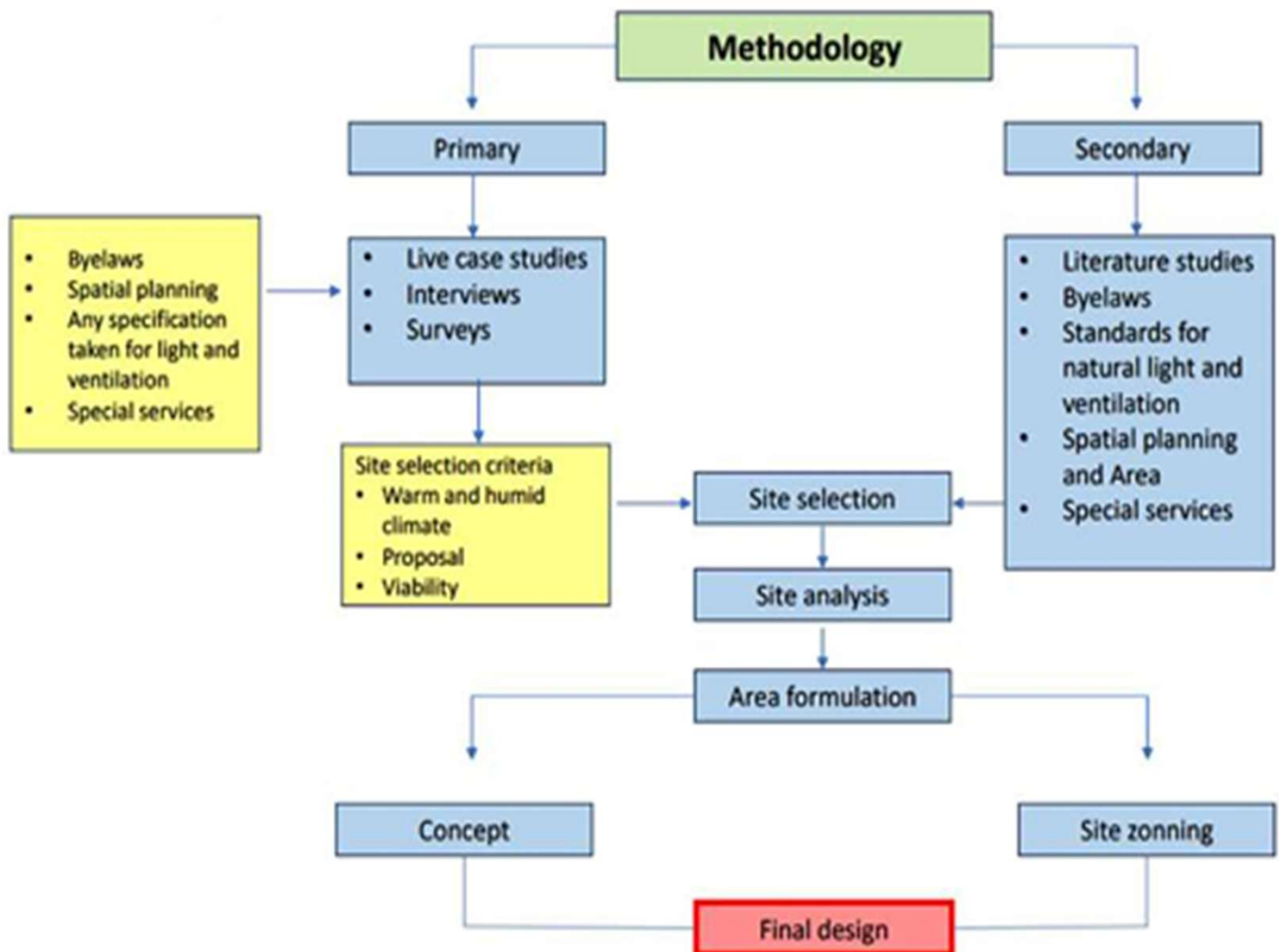
1.4 OBJECTIVE

The is to explore the strategies and approaches employed by these institutions to adapt to changing societal needs and technological advancements, aiming to enhance visitor experiences, promote education, foster community engagement, and innovate in cultural and scientific communication.

1.5 SCOPE

The scope of the Convention Center includes the design and planning of a multifunctional facility that accommodates events like conferences, exhibitions, seminars, and cultural gatherings. It integrates modern spaces with traditional architectural elements and emphasizes sustainability, flexibility, and user comfort. However, the project has limitations such as budget constraints, site-related challenges, regulatory delays, and long-term maintenance issues, which may impact construction quality and operational efficiency.

1.6 METHODOLOGY



CHAPTER – 2 STANDARDS

- SPACE REQUIREMENTS
- SPACE STANDARD

2.1 SPACE REQUIREMENTS

	Components	Space analysis
	Public Use	
1.	Entrance Hall	<p>Users: Delegates, performers and staff.</p> <p>Description:</p> <ol style="list-style-type: none"> 1. The major connectivity between the various components of the convention center. 2. It acts as an ideal space for delegates to network. 3. Spaces like information kiosk and waiting lounges form a part of the entrance hall.
2.	Registration Center	<p>Users: People taking part in various conventions</p> <p>Description:</p> <ol style="list-style-type: none"> 1. It acts as a space where people attending various events register themselves.
3.	Toilets	<p>Users: All occupants.</p> <p>Description:</p> <ol style="list-style-type: none"> 1. The size and quantity of the toilets to be provided shall be decided in accordance to NBC standards. 2. They shall be provided for peak capacity.
4.	Exhibition Halls	<p>Users: All occupants</p> <p>Description:</p> <ol style="list-style-type: none"> 1. Trade relative promoters take part in the trade shows to promote their products. 2. Large span structures and column free spaces are required for these promotions. 3. Crowd management of such components becomes necessary.
	Semi Public Use	
1.	Auditorium / Plenary Hall	<p>Users: Performers, delegates and local people.</p> <p>Description:</p> <ol style="list-style-type: none"> 1. The purpose of the auditorium is to accommodate large scale gatherings for various events like dance, drama and delegations. 2. The design of the auditorium shall be evolved in accordance to various standard guidelines subjected to auditorium design.
2.	Conference Rooms	<p>Users: Delegates and staff</p> <p>Description:</p> <ol style="list-style-type: none"> 1. They hold meetings and small company training sessions for 20-30 people.

3.	Seminar Rooms	<p>Users: Delegates and staff.</p> <p>Description:</p> <ol style="list-style-type: none"> 1. They are ideal for small-scale events like workshops, training sessions, press conferences, etc. 2. They are large enough to seat attendees in theatre configurations ranging from 50-200 people.
4.	Public amenities	<p>Users: Delegates</p> <p>Description:</p> <ol style="list-style-type: none"> 1. They include smoking lounges, ATM's, phone booths, etc. 2. Only people attending any event in the convention center shall have an access to these amenities
Private Use		
1.	Administrative offices	<p>Users: Staff of the convention center</p> <p>Description:</p> <ol style="list-style-type: none"> 1. It contains offices for the convention center which handles the general functioning of the bus terminal.
2.	Control room	<p>Users: Staff</p> <p>Description:</p> <ol style="list-style-type: none"> 1. The control room will monitor the overall functioning of the convention center.
Service Areas		
1.	Parking	<p>Users: Anyone visiting ICC.</p> <p>Description:</p> <ol style="list-style-type: none"> 1. Car and bus parking as per norms laid by NBC and DDA.
2.	Loading Docks/ Bays	<p>Users: Staff</p> <p>Description:</p> <ol style="list-style-type: none"> 1. They form a crucial part for loading/ unloading purpose in the exhibition pavilions.
3.	Service Block AC Plant room; Electrical substa; Maintenance Deptt.	Users: Staff
3.	Back of House : The Kitchen	<p>Users: Staff</p> <p>Description:</p> <ol style="list-style-type: none"> 1. It shall serve all the events hosted by the convention center.

2.1 SPACE STANDARDS

Segregation of the public movement pattern and the details of the anthropometric standards of the various components of the project.

Public movement pattern for convention centers

The auditorium

Conference rooms

Exhibition galleries

Restaurants

Fire norms by NBC

Vertical circulation

Parking

2.1.1 PUBLIC MOVEMENT PATTERN FOR CONVENTION CENTERS

Communication and functionality can be improved by implementing efficient circulation patterns in a convention center. People visiting or working in a convention center can be divided into 5 broad user categories:

- Public flow
- Delegate flow
- VIP flow
- Journalist flow
- Staff flow

Delegates flow:

Delegates form the most important group of users for a convention center. The parking shall lead them to the main entrance foyer which further directs them to their destination. An unobstructed delegate movement is very important.

Public flow:

Dignified personalities are invited depending on the nature of confer hence. It can also have relatives and public guests invited by the organization. The public guests also have access to the exhibition areas and hence these areas shall a separate access to manage the public flow during peak hours efficiently.

VIP flow:

They shall either directly lead to the dais of the main hall or shall enter through the VIP entrance which is connected to a VIP lounge.

Staff flow:

The staff can be divided into two categories namely the technical staff who are responsible for the efficient working of the convention center while the others are the administrative staff who are exposed to the people coming to the center. The paths of the technical and administrative staff diverge at the staff entrance.

Journalist flow:

It includes press people, cameraman and diplomats. They shall have a direct access to the documentation center and the TV studio of the convention center.

2.1.2 The Auditorium

The three-dimensional volume of an auditorium is conditioned by the need for all members of the audience to be able to see the whole of the platform or stage; and to hear the actor, singer, musician or speaker. Seating density, floor rake and seating layout are partly determined by this partly to give the audience an appropriate level of comfort and essentially to ensure a means of escape in an emergency, such as a fire, within the time required by safety considerations and by legislation.



Figure 5: Visual and aural limitations: (a) Plan: for a performer at centre stage B there is an arc Y beyond which visual and aural perceptions are impaired. However, for performers nearer the sides of the stage at A and C produce more restrictive curves X. (b) Section: Similarly, visual and aural limits in section also set an arc centred on the performer.

Seating:

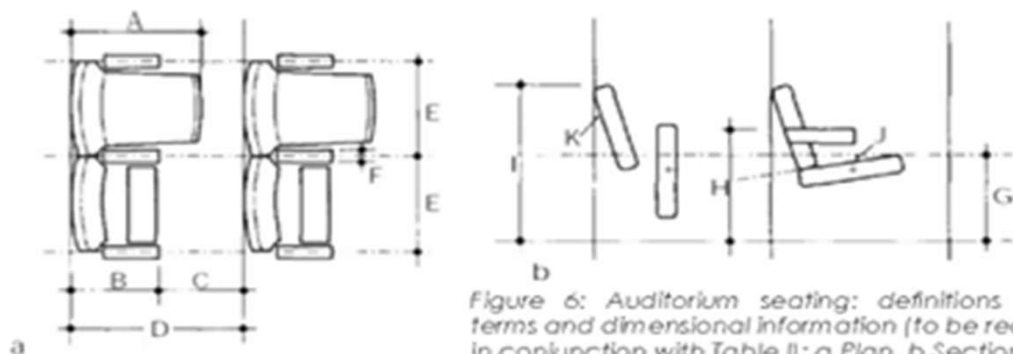


Figure 6: Auditorium seating: definitions of terms and dimensional information (to be read in conjunction with Table I): a Plan. b Section

Dimension	Description	Minimum(mm)	Maximum(mm)	Drawnn as
A	Overall seat depth	600	720	650
B	Tipped seat depth	425	500	450
C	Seatway	305	-	400
D	Back to back seat spacing	760	-	850
E	Seat width for seat with arms	500	750	525
F	Annrest height	50	-	50
G	Seat height	430	450	440
H	Armrest height	600		600
I	Seatback height	800	850	800
J	Seat inclination	17	9	7
K	Back Inclination	15	20	15

- Writing surface:**

Conference use may require a writing surface for note-taking. The writing surface may be:

- A tablet fixed to each seat, 20.10
- A fixed table with fixed pivoting or sliding seat. 20.13.

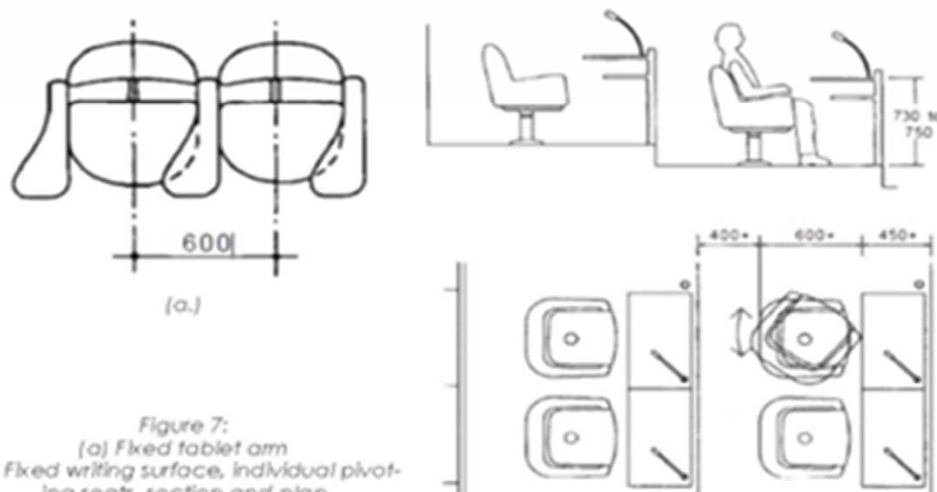


Figure 7:
(a) Fixed tablet arm
(b) Fixed writing surface, individual pivoting seats, section and plan

2.1.3 The Auditorium Design

- **Audience requirements:**

Every member of the audience should be able to see and hear clearly whatever is happening on every part of the stage or platform. The greater the encirclement of the audience of platform or stage, more people can be accommodated within the aural and visual limitations up to 180° encirclement. With a full encirclement, the distance from platform or stage is restricted to six rows.

- **Number of seats in a row:**

With traditional seating the maximum number is 22 if there are gangways at both ends of the row. and 11 for gangway at one end. Rows with more than 22 seats are permitted if the audience is not thereby imperiled.

- **Row to row spacing:**

Spacing is controlled by the clearway between the leading edge of the seat and the rear of the back of the seat in front. For traditional seating the minimum clearway for people to pass along the row is 300 mm and this dimension increases with the number of seats in a row. For continental seating the clearway is not less than 400 mm and not more than 500 mm.

- **Gangways:**

As gangways are essential escape routes, their widths are determined by the number of seats served. The minimum is 1100 mm. They can be ramped up to 10%. If the seating rake is steeper, gangways must have steps extending the full width and these must have consistent treads and risers in each run.

- **Seating geometry:**

Seating is usually laid out in straight or curved rows focused towards the platform or stage. Further forms are the angled row, straight row with curved change of direction and straight rows within emphasized blocks of seats.

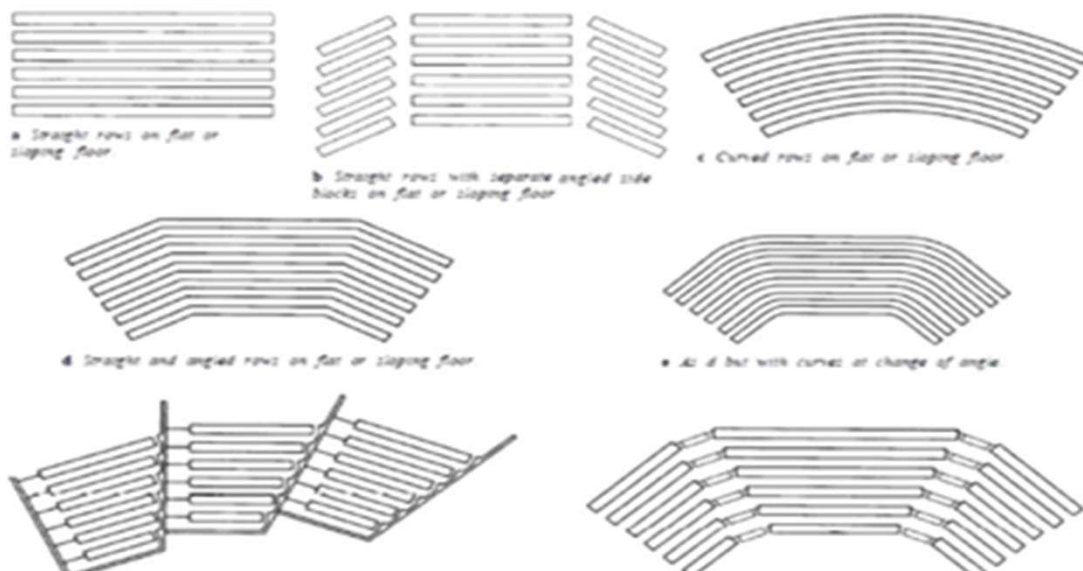


Figure 8: Alternative auditorium seating arrangement

- Seating density:**

Seats with arms and tippable seat can occupy a space as small as 500 mm wide with a row-to-row dimension of 760 mm; but can be as large as 750 mm wide by 1400 mm. The area per seat therefore varies between 0.38 sqm and 305 sqm

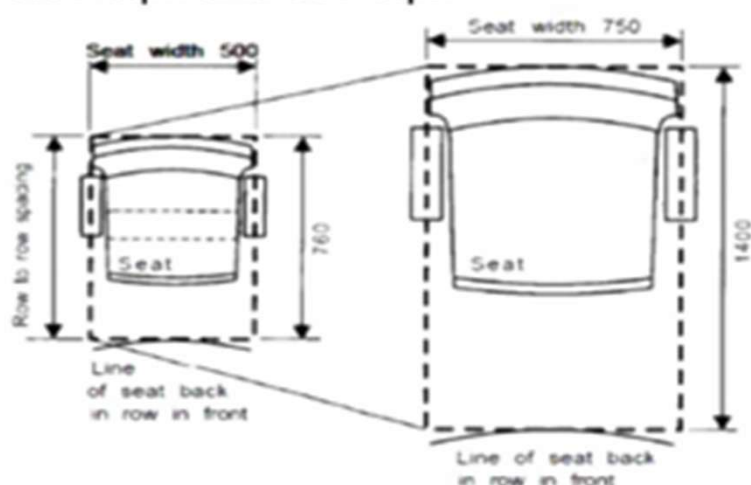


Figure 9 : Seating density, from 0.38 m^2 to $1.0.5 \text{ m}^2$ per person

- Sightlines for a seated audience:**

For every member of the audience to have an uninterrupted view of the platform or stage over the heads in front and clear of overhangs the section and plan of the auditorium need to conform to certain limitations set by vertical and horizontal sight lines.

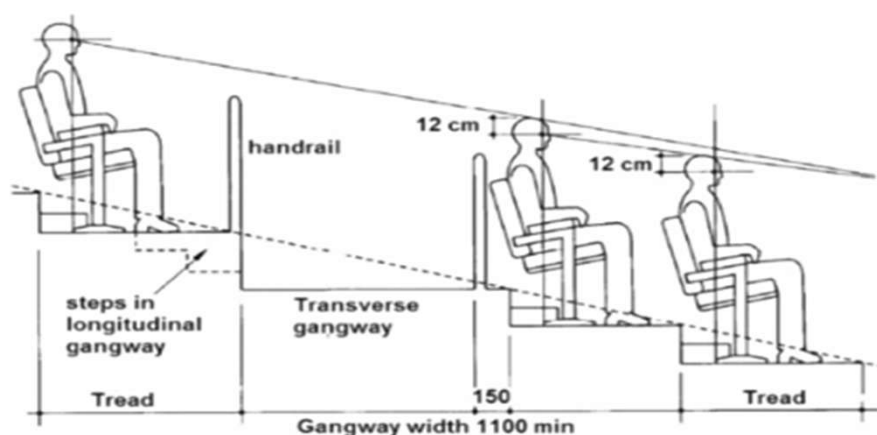


Figure 10 : Graphic representation of vertical sightlines at a transversal gangway

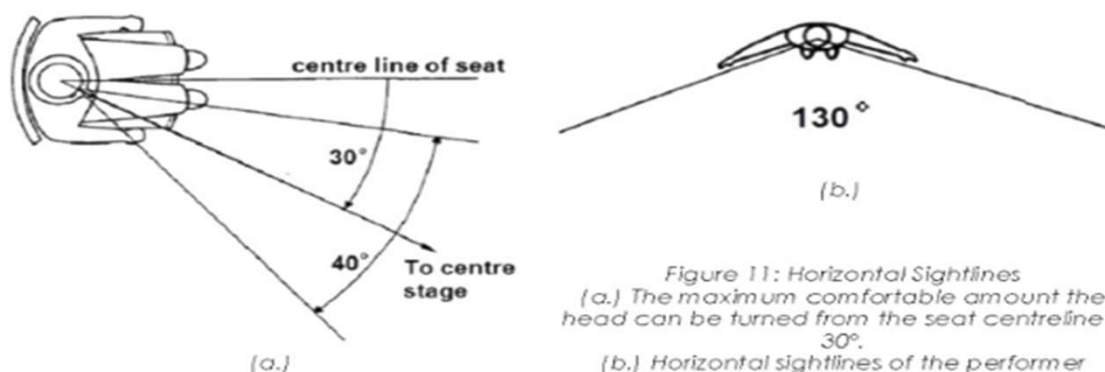
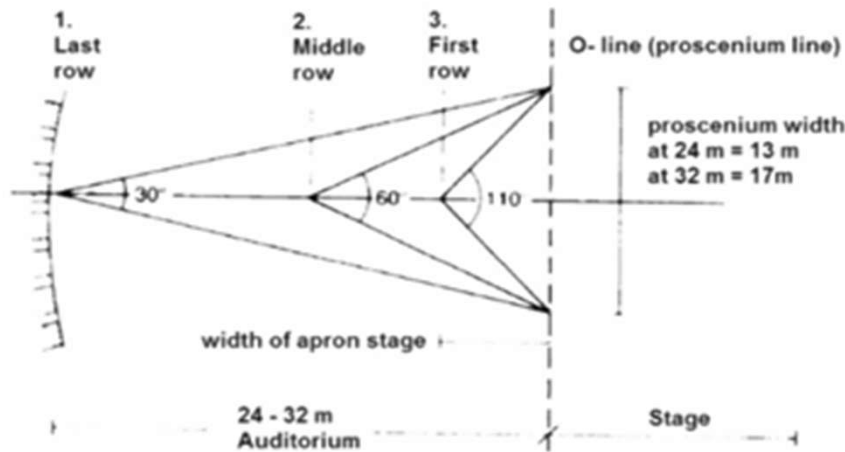


Figure 11: Horizontal Sightlines
(a.) The maximum comfortable amount the head can be turned from the seat centreline is 30° .
(b.) Horizontal sightlines of the performer

- Width of an auditorium:



Means of escape:

- **Travel distance:**

The maximum travel distance from seat to exit within the auditorium is determined by the need to evacuate from each level of the auditorium within 272 minutes. For traditional seating the maximum travel distance is 18 m measured from the gangway, for continental seating 15 m from any seat.

- **Exits:**

From each level of the auditorium two separate exits must be provided for the first 500 seats with an additional exit for each further 250 seats.

- **Stairs:**

Staircase flights should have at least two risers and not more than 16. All treads should be 275 mm and risers 180 mm.

- **Ramps:**

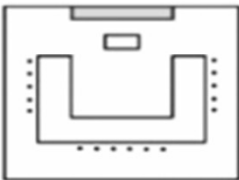
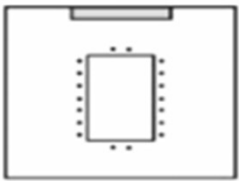

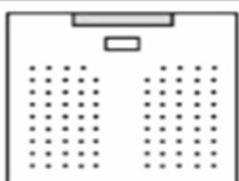
Wheelchair users should be provided with flat or ramped escape routes which may be separate from other routes. Ramps should not be longer than 4.5 m or steeper than 8.5%

Number of people	Minimum total exit widths (m)
upto 200	2.2
201-300	2.4
301-400	2.8
401-500	3.2
751-1000	6.4
1001-2000	14.4

2.1.4 Conference room

A conference hall or conference room is a room provided for singular events such as business conferences and meetings. Sometimes other rooms are modified for large conferences such as arenas or concert halls. Conference rooms can be windowless for security purposes.

Types of seating:

	Type	Description	Layout
1.	U shaped	<ul style="list-style-type: none"> Seating around three sides of the room. It is good for presentations from front. Presentation space in the middle of the room. Can be used for up to 50 persons. Per seat area is 3.25m². 	
2.	Boardroom style	<ul style="list-style-type: none"> Centrally located table. Classic layout ideal for debate and discussion. Seating capacity 5-30 persons. Per seat area is 3.71m². 	
3.	Cabaret style	<ul style="list-style-type: none"> All delegates facing front-center on round tables. Large space in the middle of the room. Ideal for small-group work. Per seat area is 1.57m². 	
4.	Theater style	<ul style="list-style-type: none"> Used for product launches, presentations, displays. Used to present to large numbers of delegates. Can be used for 100-250 persons. Per seat area is 0.83 m². 	

Space standard:

Consideration must be given to clearances and circulation around the larger conference table, as indicated in the adjoining figure.

Type	Dimension
A	1210-1520
B	100-150
C	510-610
D	150-255
E	460-610
F	790-910

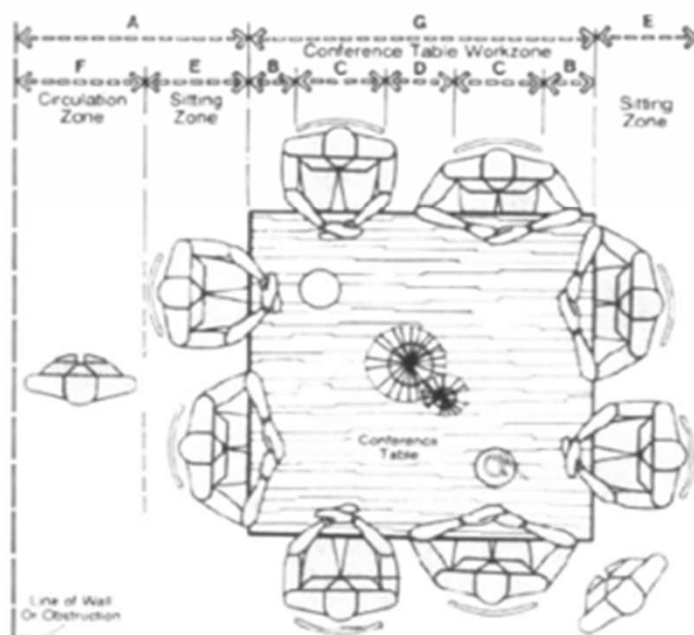


Figure 22: Seating standards for a conference table

2.1.5 Exhibition

An Exhibition is an organized presentation and display of a selection of items. In practice, exhibitions usually occur within museums, galleries and exhibition halls, and World's Fairs. Exhibitions can include many things such as art in both major museums and smaller galleries, interpretive exhibitions, natural history museums and history museums, and also varieties such as more commercially focused exhibitions and trade fairs.

General Planning:

The relationships between functions are common to all museums and art galleries. Figure 23 shows collection item movements in the operation of collection services, but note that not every operation necessarily requires a separate space, and some services may be provided by outside agencies.

As far as possible, collection movement and public circulation should be kept separate. Figure 24 shows one approach to zoning and expansion based on this principle.



Figure 23: Flow diagram of collection item movements in the operation of collection services: exhibitions, conservation and collections management

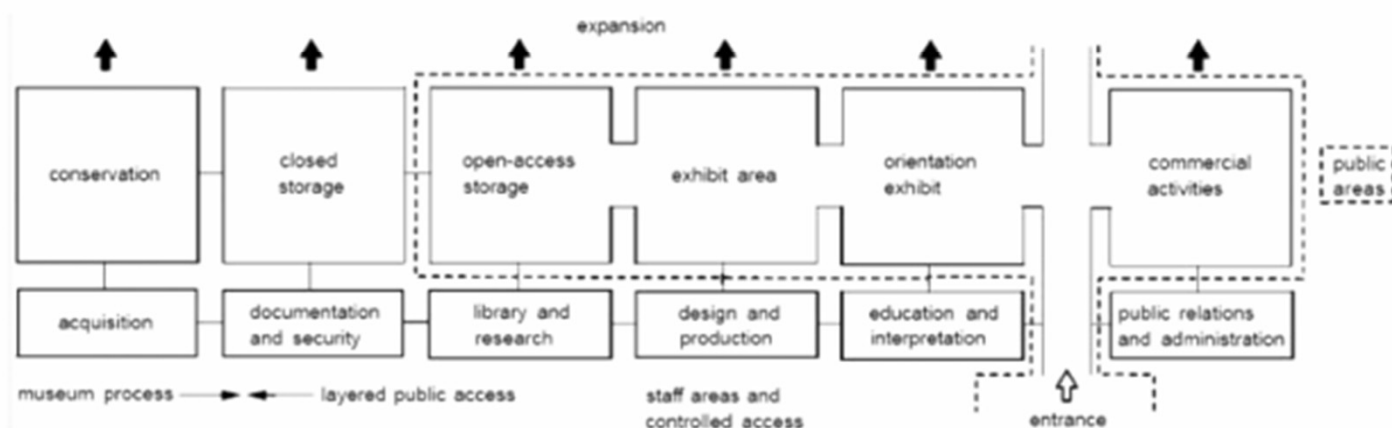


Figure 24: A layout concept showing a clear relationship between museum functions and an approach to zoning and expansion

2.1.6 Restaurant

A place where people pay to sit and eat meals that are cooked and served on the premises. Various types of restaurants are classified based upon menu style, preparation methods and pricing.

Types of restaurants:

	Type	Description
1.	Fine dining restaurants with bar	<ul style="list-style-type: none">• These are full service restaurants with specific dedicated meal courses.• Décor of such restaurants features higher-quality materials, with an eye towards the "atmosphere".
2.	Casual dining restaurants	<ul style="list-style-type: none">• A casual dining restaurant is a restaurant that serves moderately-priced food in a casual atmosphere.• Except for buffet-style restaurants, casual dining restaurants typically provide table service.

Relationship of main elements:

- The layout and relationship between different areas is dependent on the type of facility.
- The kitchen and preparation areas will equal about 50% of the dining space and ancillary and storage will be about 1.5-2 times the kitchen area.

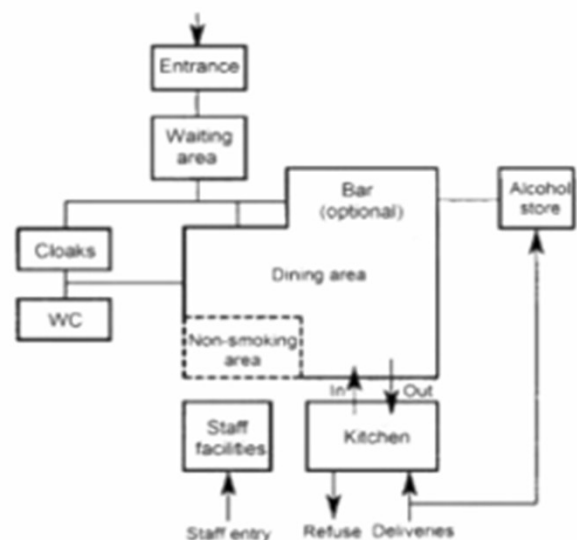


Figure 28: Relationship between major spaces

Space standards:

- Restaurants should be planned so that a variety of seating arrangements is possible (e.g. tables for two and four).
- To eat comfortably, one person requires a 600mm wide and 400mm deep table.
- Service aisles should be minimum 900mm to 1350mm wide if used both by trolleys and guests.
- Area required per person ranges from 1.3-1.9 m.
- There must be clarity in organization between self-service, fast food etc. and a separate smoking area.

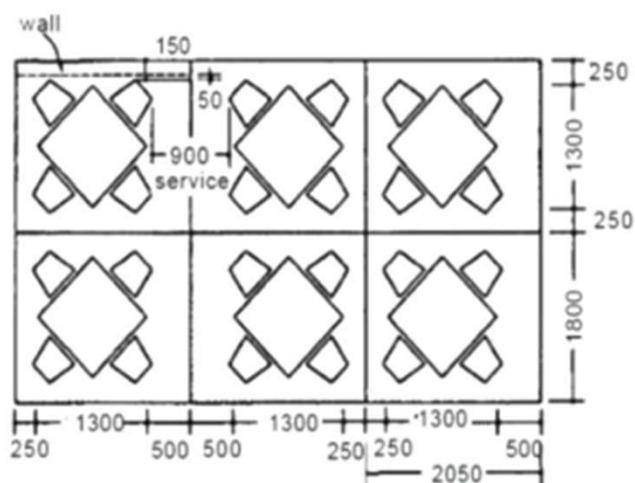


Figure 29: Square tables with diagonal layout

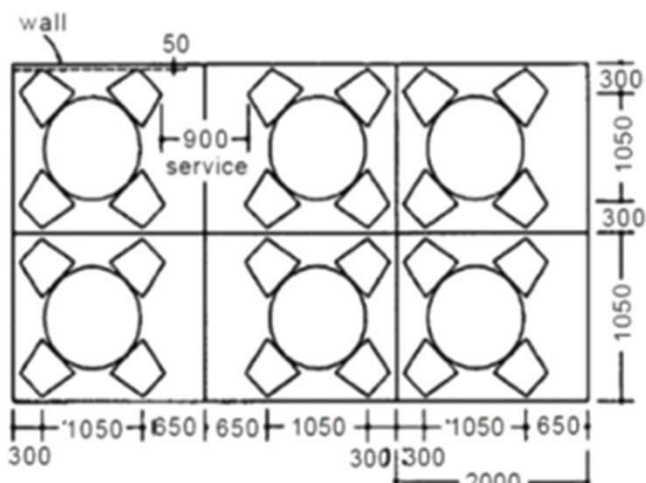


Figure 30: Circular tables with diagonal layout

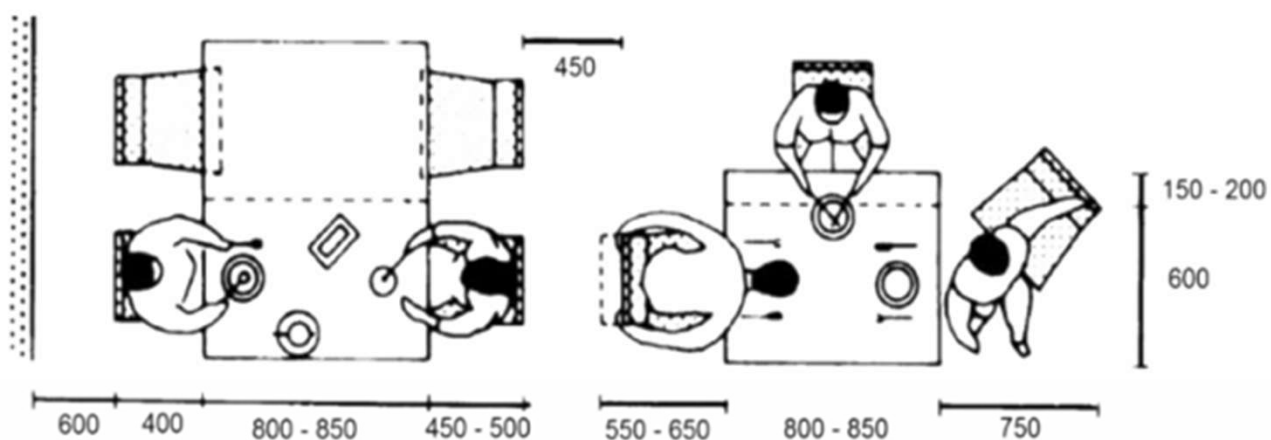
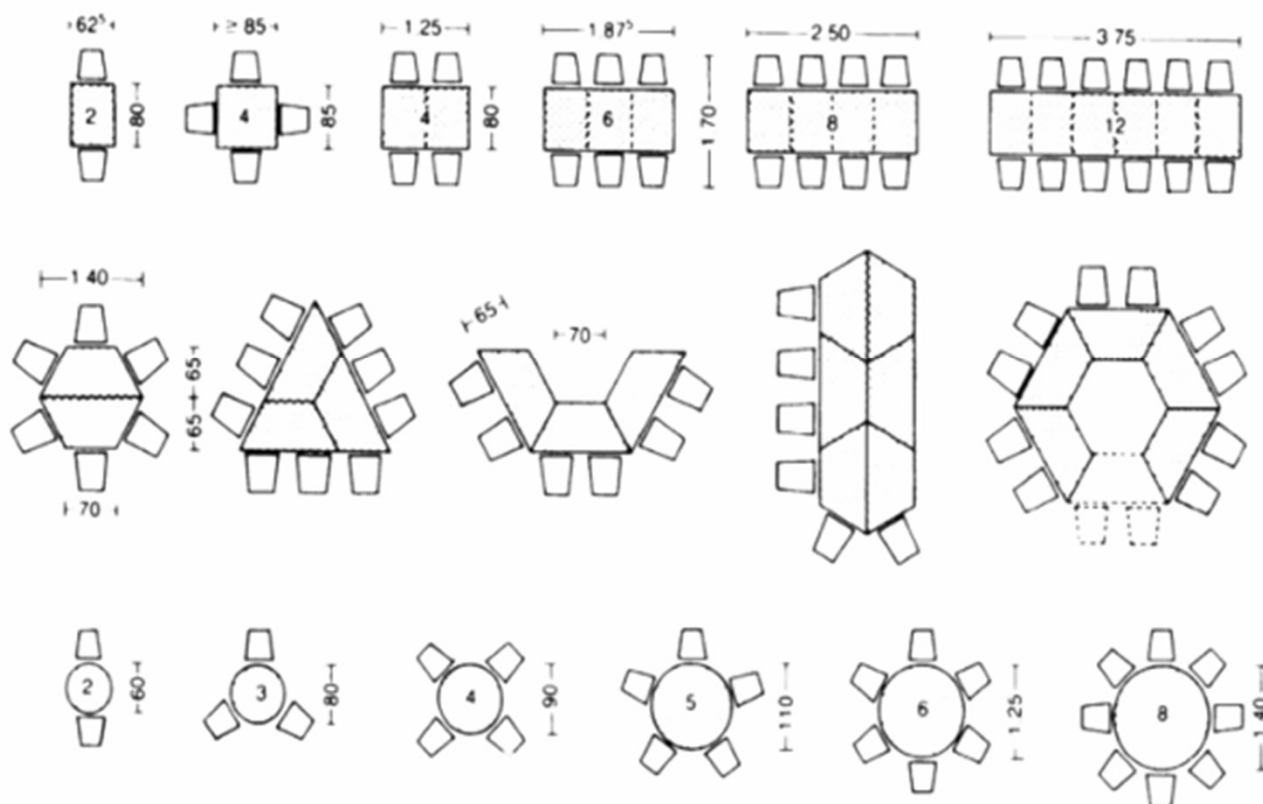
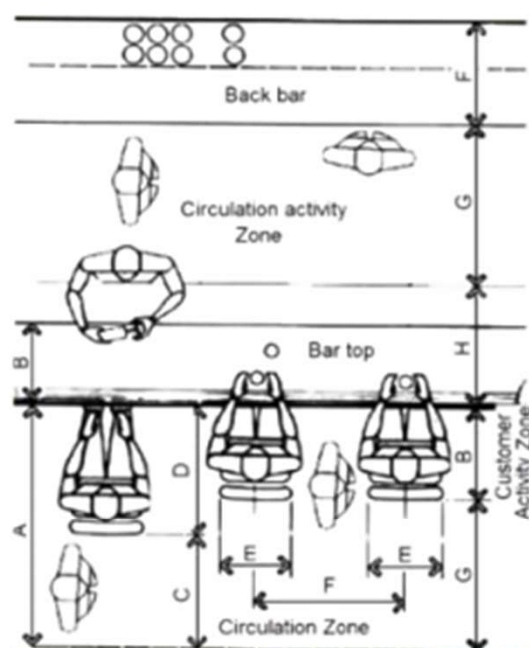


Figure 31: Circulation space requirements



Bar Service:

- To encourage business from non-diners the main bar may have an external entrance.
- A fairly long bar counter supported by bar store and place for seating should be provided.
- Cocktail lounge (comfortable) 18-2.0m² per person.
- General bar (some standing and on stools) 1.3-1.7m² per person.



Type	Dimension
A	1370
B	450-610
C	610
D	760
E	400-450
F	610-760
G	760-910
H	710-960

Figure 32: Bar circulation dimensions

Toilet facility

	Sanitary appliance	Male	Female
1.	WC	1 per 100 up to 400 males. For over 400 males, add at the rate of 1 per 250 males.	2 per 50 up to 200 females. For over 200, add at the rate of 1 per 100 females.
2.	Urinals	1 per 50 males.	-
3.	Wash basins	1 per WC and in addition 1 per 5 urinals.	1 per WC.
4.	Toilets for disabled	1 unisex compartment should be reasonably close by.	

2.1.7 Fire safety norms by the national building code of india

Every building shall be so constructed, equipped, maintained and operated as to avoid undue danger to the life and safety of the occupants from fire, smoke, fumes or panic during the time period necessary for escape.

General Exit Requirements:

- An exit may be a doorway, to an internal staircase, or external staircase, or terrace(s), which have access to the street, or to the roof of a building or a refuge area.
- All exits shall provide continuous means of egress to the exterior of a building or to an exterior open space leading to a street.
- Exits shall be so arranged that they may be reached without passing through another occupied unit.

Capacity of exit:

- The unit of exit width, used to measure the capacity of any exit, shall be 500 mm. A clear width of 250 mm shall be counted as an additional half unit. Clear widths less than 250 mm shall not be counted for exit width.
- In an assembly building (convention center), the capacity per storey per unit width of exit of stairways, ramps and doors is 40,50 and 60 respectively.
- The travel distance to an exit from the dead end of a corridor shall not exceed 30m in case of assembly buildings.

Doorways:

No exit doorway shall be less than 1000 mm in width except assembly buildings where door width shall be not less than 2000 mm. Doorways shall be not less than 2000 mm in height.

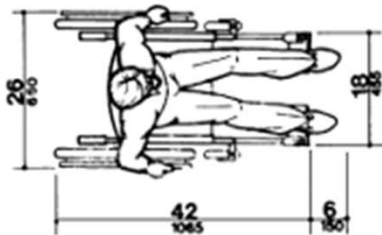
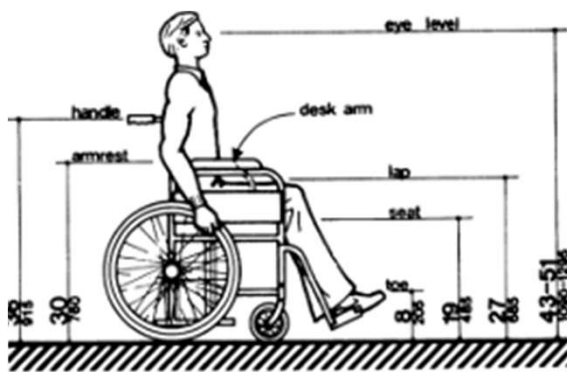
Stairways and ramps:

- The minimum width of tread shall be 300 mm and the maximum height of riser shall be 150 mm for assembly buildings.
- The minimum width for a staircase shall be 2m. The minimum headroom in a passage under the landing of a staircase and under the staircase shall be 2.2 m.
- The slope of a ramp shall not exceed in 10. In certain cases steeper slopes maybe permitted but in no case greater than 1 in 8.

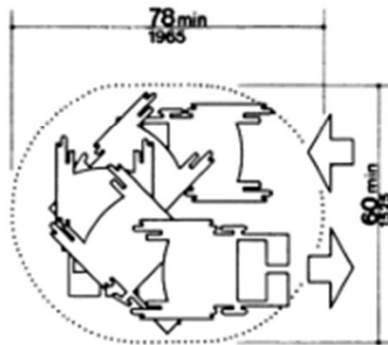
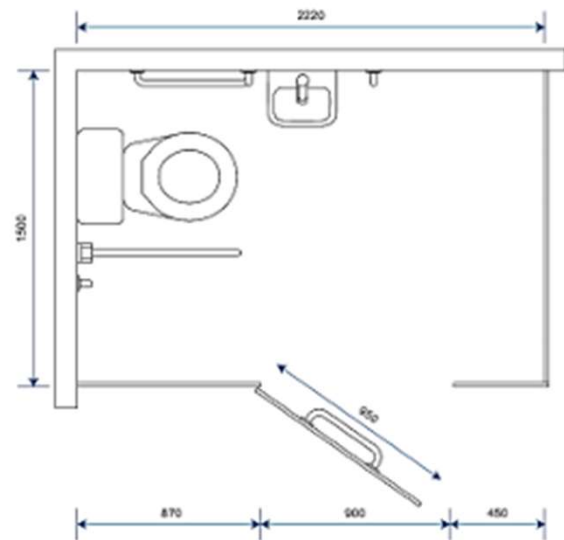
Horizontal exits:

For buildings more than 24 min height, refuge area of 15 m or an area equivalent to 0.3 m² per person to accommodate the occupants of two consecutive floors.

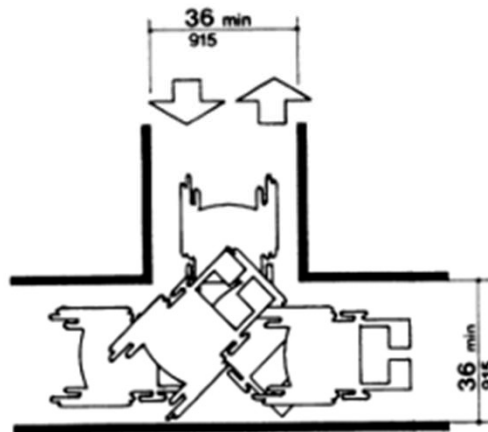
2.1.8 For Disable Person



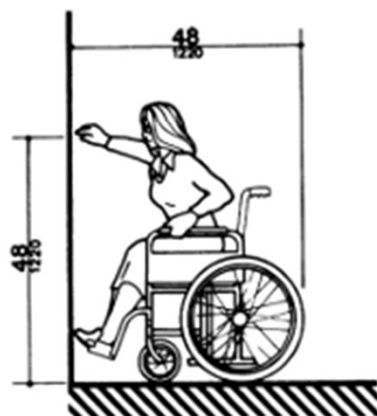
Wheelchair dimensions



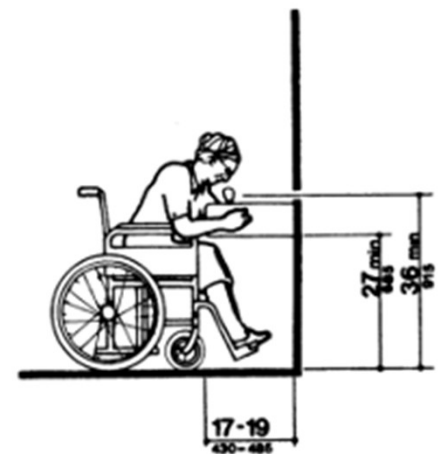
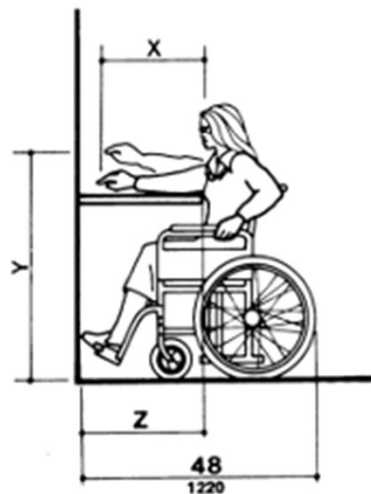
Space needed for smooth U-turn



T-shaped space for 180-degree turns



Forward reach limits



Drinking fountain, cantilevered type

NOTE: X shall be ≤ 25 in (635 mm); Z shall be $\geq X$. When $X < 20$ in (510 mm), then Y shall be 48 in (1220 mm) maximum. When X is 20 to 25 in (510 to 635 mm), then Y shall be 44 in (1120 mm) maximum.

CHAPTER -3 CASE STUDY

a) CASE STUDY -1

(INDIRA GANDHI PRATISTHAN- LUCKNOW)

b) CASE STUDY -2

(BHARAT MANDAPAM – NEW DELHI)

3.1 INDIRA GANDHI PRATISHTHAN (IGP), Lucknow:

Location - Kathauta Chauraha Road, Vibhuti Khand Gomti Nagar Lucknow

Architect - Sikka Associates

Client - Lucknow Development Authority (L.D.A.)

Area - 10 Acres

Construction Status – Completed (Restaurants, Gym, Club, Library)
Proposed

Introduction:

Indira Gandhi Pratishthan is one of the largest convention centre in the city of Lucknow. The venue has been host to various national and international meetings, summits and gatherings, the venue consists of three auditoriums, lawns, banquets, meeting rooms, art gallery, exhibition space etc. Named after the former prime minister smt. Indira Gandhi the project began in 2002. This 10 acre campus has parking for 2000 cars and is accessible from all parts of the city. Many facilities have been proposed for proper utilization of venue and increase the footfalls. The proposals include setting up gymnasium, swimming pool, library, club, restaurants etc.



Purpose:

The convention venue has served various purposes over the year. From local to national to international events the venue is capable of all the events. Some of the events hosted by Indira Gandhi Pratishthan

- 1) Meetings
- 2) Seminars
- 3) Product Launches
- 4) Business Summits
- 5) Marriage Functions
- 6) Exhibitions
- 7) Award Ceremonies
- 8) Entertainment Events
- 9) Concerts

Features of IGP :

IGP has been designed for hosting various events there are various block in the venue

- 1) Earth (5 Moon Halls, Vip Lounge 1 Media Centre)
- 2) Mercury 400 Pax
- 3) Mars 600 Pax
- 4) Jupiter 1500 Pax
- 5) Saturn Banquet Hall
- 6) Art Gallery
- 7) Exhibition Ground



Services :

- 1) Fire hose pipes installed on site with primary and secondary pumps
- 2) Two 320 KV generator
- 3) Three transformers installed
- 4) 12 mt wide access road



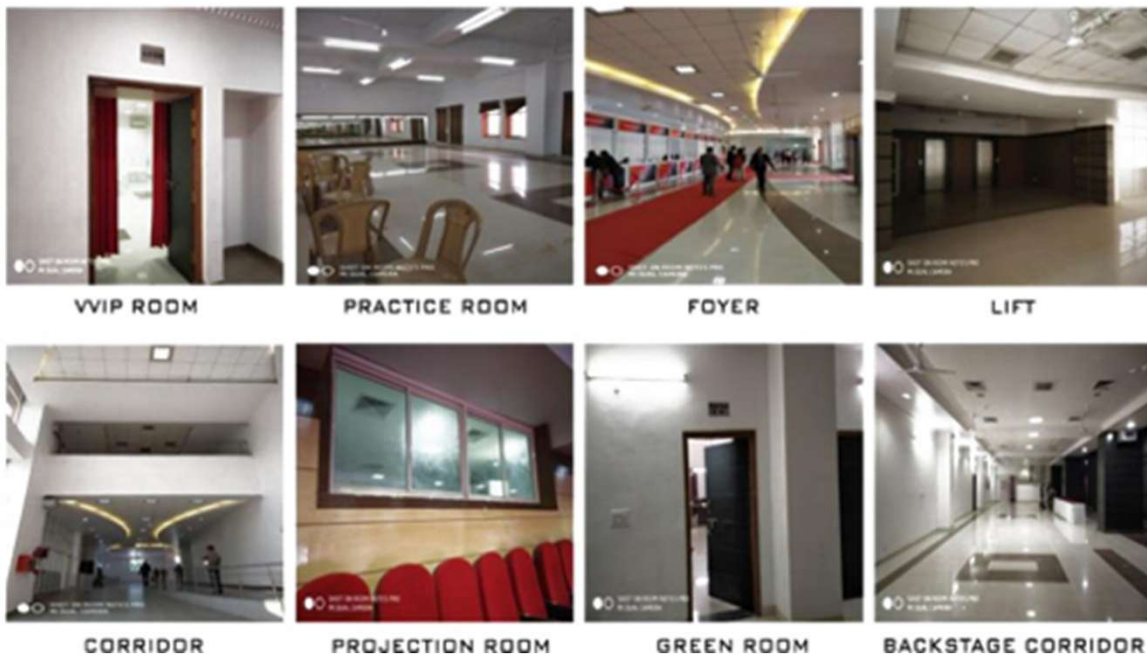
Features :

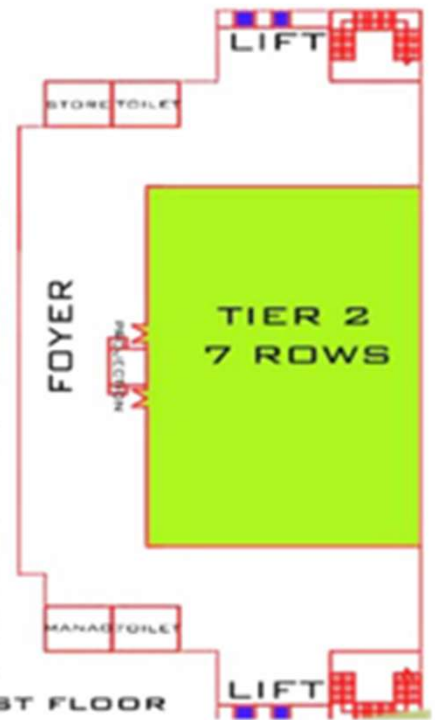
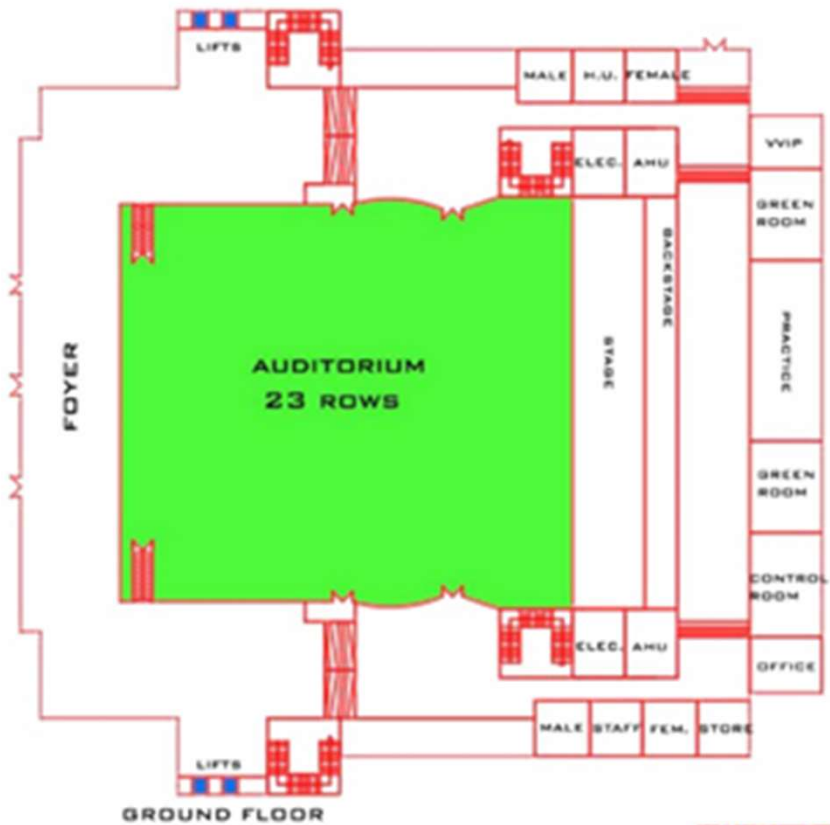
- 1) Banquet hall with 600 capacity
- 2) Separate kitchen space provided
- 3) A hall for mini function
- 4) AHU store and other area provided
- 5) Landscaping provided for good aesthetic
- 6) Solar panel installed
- 7) Service road for loading and unloading
- 8) Centrally air conditioned banquet.



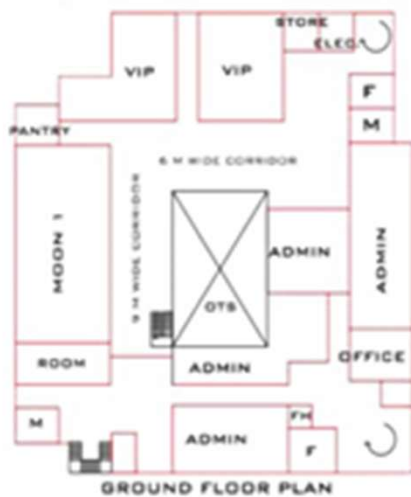
Jupiter (Auditorium) :

- 1) 1500 people capacity
- 2) Grand entry foyer
- 3) Lift and staircase access to first floor
- 4) Green room, control room, practice hall, vip rooms
- 5) Basement parking for visitor
- 6) Separate VVIP entry provided to the building
- 7) Stone finishing provides lavish aesthetics
- 8) 10.8 mt wide corridor on each side
- 9) 7.2 mt wide backstage corridor
- 10) Solar panel installed on roof
- 11) 1.2 mt gangway in auditorium for proper circulation.





Earth:





MOON 1



VVIP



VIP



MOON 2



MOON 3



MOON 4



MOON 5



PLUTO (AUDITORIUM)



FOYER



MEDIA CENTRE

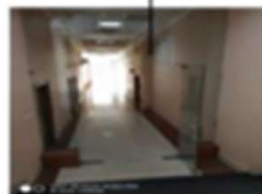
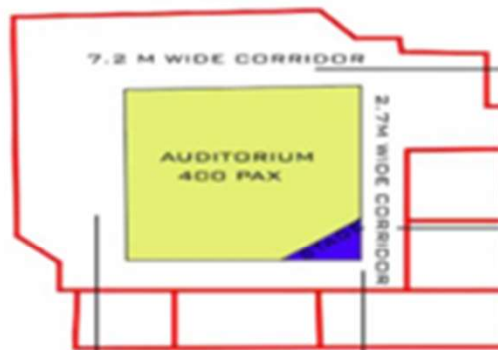


EXECUTIVE ROOM

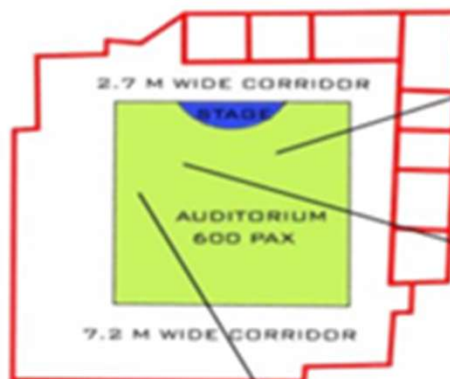


ADMINISTRATION

Mercury 400 Capacity Auditorium:



Mars 600 Capacity Auditorium:



3.2 BHARAT MANDAPAM – NEW DELHI :

Location- Pragati Maidan, New Delhi, India

Site Area of Pragati Maidan- 123 Acres

Site Area of Bharat Mandapam (IECC)- 12.5 Acres

Year of Completion-2023

Architects- AEDAS & ARCOP

Ground Coverage- 35%

Spaces- Exhibition halls, VIP lounge, plenary hall, conference rooms, multifunctional hall, seminar room, G20 summit room, auditoriums & 2 food courts.



Key Plan

Source- Google Earth & Self

Bharat Mandapam or International Exhibition -cum-Convention Center (IECC) is located at Pragati Maidan, New Delhi

The complex stands as a testament to India's commitment to fostering innovation, collaboration, and cultural exchange on a grand scale. This architectural marvel has emerged as the country's largest and most prestigious convention and exhibition Center.

Spread across acres of prime land in New Delhi. Bharat Mandapam offers vast exhibition halls, state-of-the-art conference rooms, and a magnificent auditorium capable of hosting events.



Master Plan of Pragati Maidan Complex

Source- <https://architectures.net/doc/azvch182480>, google earth & Self





The front facade of Bharat Mandapam reflects a harmonious fusion of contemporary design and traditional Indian architectural motifs.

The center piece of this architectural marvel is the **front water body**, a carefully crafted feature that enhances the visual appeal and cultural significance of the building which also serves as a reflection pool, mirroring the grandeur of the building and the sky above

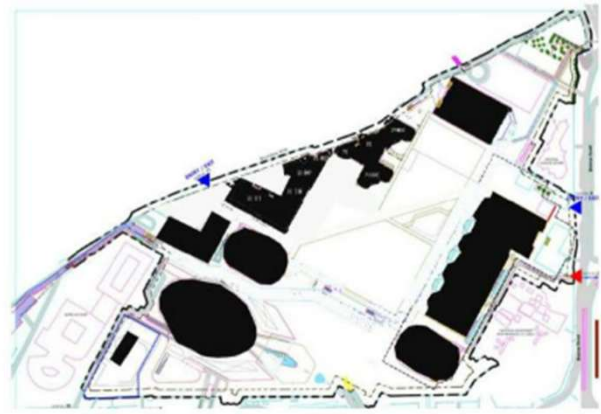


Figure- ground map

Source- Self

Bharat Mandapam - Convention Center stands as a top-tier facility featuring contemporary infrastructure and cutting-edge technology. ideal for hosting conferences, summits, meetings, cultural events, and large gatherings.

The venue includes exclusive VIP and guest lounges, along with premium five-star catering service, capable of accommodating events with up to 7000 attendees in a single format.

The design of the complex prioritizes convenience, offering seamless accessibility for visitors, including specially-abled individuals and senior citizens, and boasts a parking capacity exceeding 5000 vehicles.

The surroundings of the complex are enhanced by a meticulously landscaped plaza, complete with a captivating musical fountain.



1. GLASS



2. SANDSTONE



3. MARBLE & GRANITE



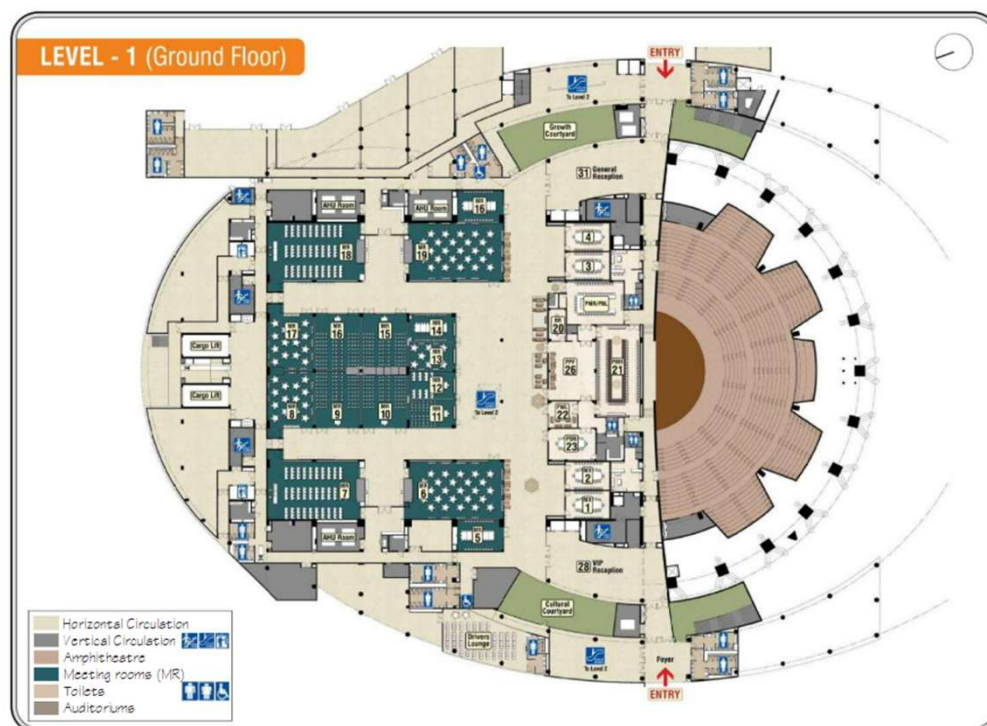
4. ALUMINIUM
Source- Self

3.2.1. SPATIAL ORGANIZATION

Bharat Mandapam features a flexible spatial design that accommodates a myriad of events, from grand conferences to cultural exhibitions.

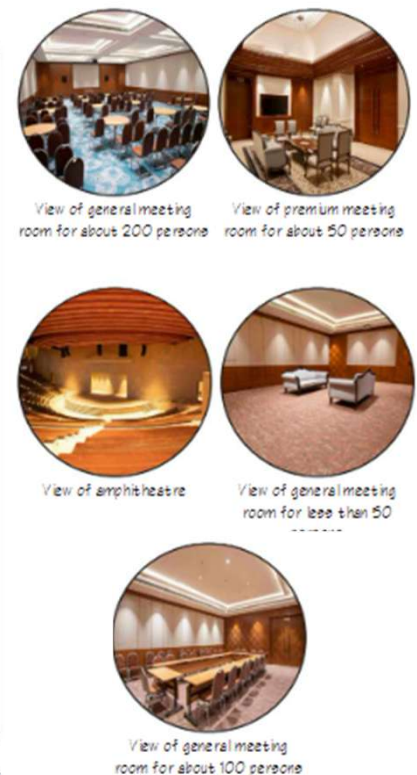
A user-friendly layout ensures easy accessibility and efficient circulation within Bharat Mandapam. Thoughtful placement of entrances, escalator, and elevators ensures a smooth flow of people through-out the facility.

The complex is strategically zoned to house different functions like conferences, exhibitions, cultural performances, and administrative functions to cater cohesively.



Floor Plan at level 1

Source- <https://indiatradefair.com/bharatmandapam-halls>



Floor plan at Level 1

- features Amphitheatre covering 2250 square meter floor area spans two levels, providing tiered seating for enhanced visibility is designed to accommodate gathering of upto 3000 persons.
- 16 general meeting rooms cater to smaller gatherings, workshops, and parallel sessions accommodating 50-200 persons.
- 4 premium meeting rooms offering a more exclusive and sophisticated setting, advanced audio-visual equipment and enhanced amenities accomodating each.
- Back-of-house areas house service facilities, including service areas, utility spaces, and staff offices.



Floor Plan at level 2

Source: <https://indiatradingfair.com/bharatmandapannalla>



View of summit room with luxurious amenities



View of auditorium 1 showing fan-shaped seating style



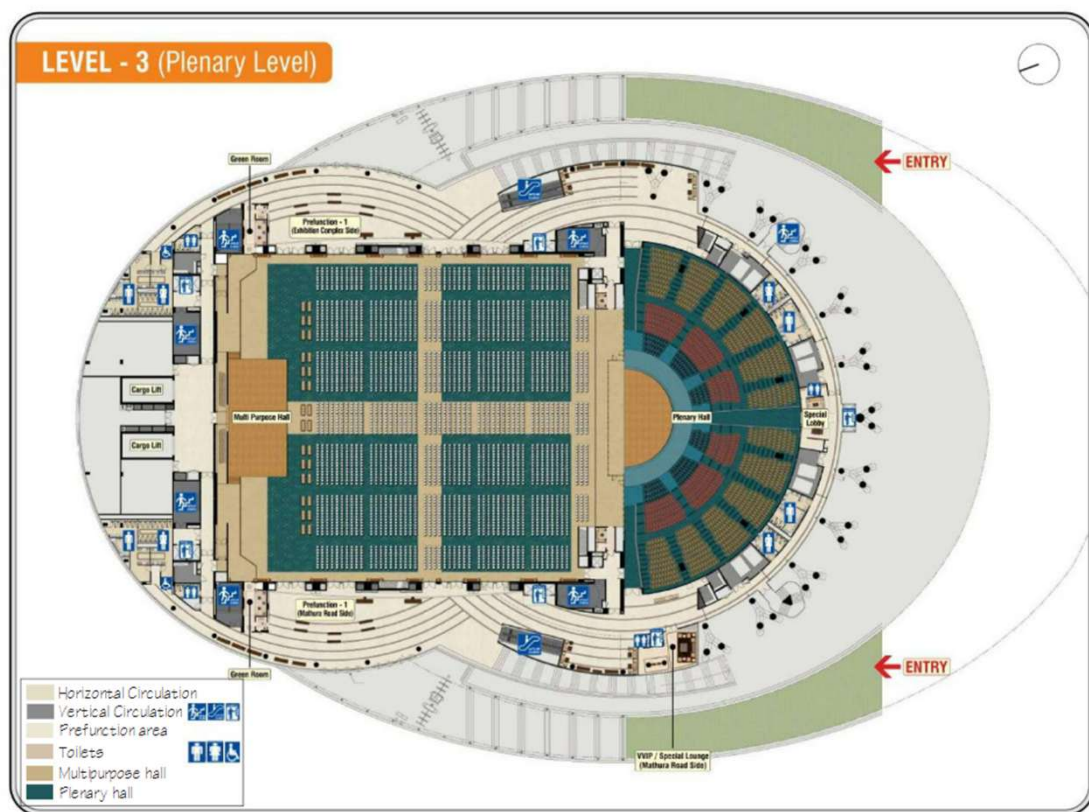
View of auditorium 2 showing seating style & aesthetic ceiling



View of leaders' lounge showing fancy ceiling lighting

Floor plan at Level 2 features-

- G20 summit room, covering 1,153 square meters floor area, is an exclusive and secure space designed to host high-profile meetings and diplomatic events with advanced communication and translation facilities to accommodate 165 persons.
- Two auditoriums to accommodate 600 & 900 persons each covering 793 & 992 sqm resp. on substantial events with state-of-the-art lighting and acoustics.
- Leader's lounge (702 sqm) offering a luxurious and private retreat for distinguished guests and event organizers.
- Prefunction area designed as a spacious and welcoming area, making it an ideal space for attendees to gather, network, and socialize before or after events. It can host coffee breaks, receptions, and other informal gatherings.

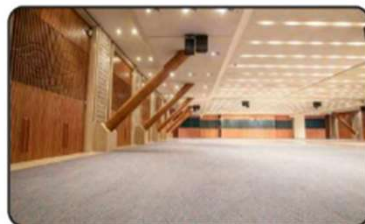


Floor Plan at level 3

Source- <https://indiatradeair.com/bharatmandapam-halls>



View of plenary hall showing partitioned wall at backdrop



View of multipurpose hall showing wood-paneled wall



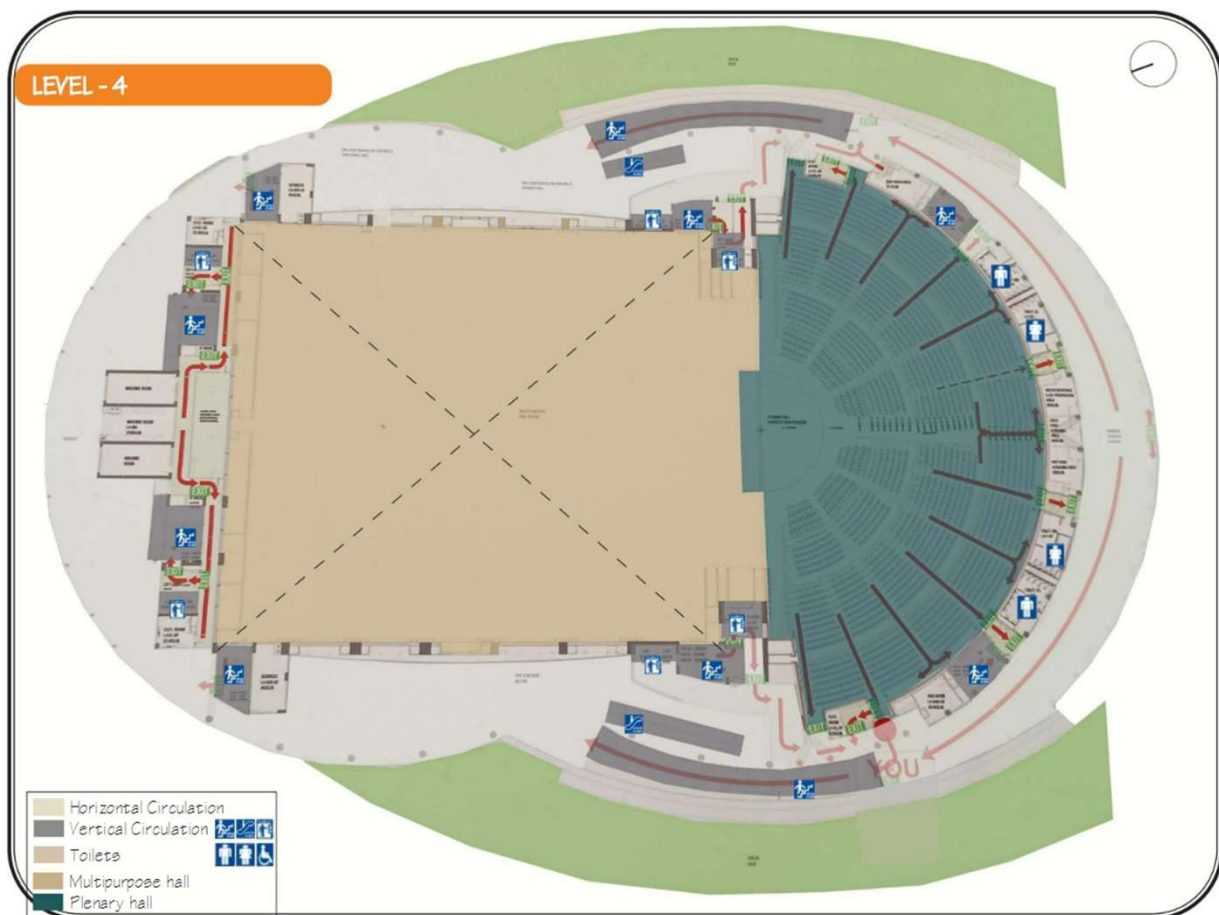
View of plenary hall showing partitioned wall at backdrop



View of multipurpose hall spacious enough to cater large exhibitions

Floor plan at Level 3 features-

- Plenary hall (1.985 sqm) designed to accommodate up to 3000 attendees, making it the Center piece for major conferences, conventions, and large-scale events & features a tiered seating arrangement to ensure unobstructed views.
- Multipurpose hall (4.884 sqm) adjacent to the plenary hall, features an open floor plan with minimal obstructions, allowing for flexible spatial configuration providing space for exhibitions accommodating 4000 persons.
- Service areas for catering and refreshments are strategically positioned to support large-scale events.



Floor Plan at level 3

Source- Self



View of well-lit escalators



View of lobby area showing culture through interiors

Floor plan at Level 4 features-

- Two level-plenary hall in continuation from level 3. The two-level design enhances the capacity and flexibility of the Plenary Hall, accommodating a larger audience for major events and conferences.
- Green roof contributing to sustainability efforts and promoting environmental con-sciousness providing insulation, absorbing rainwater, and contributing to the overall energy efficiency of the building.
- Toilet facilities, located at the back of the floor plan for easy accessibility.

CHAPTER -4 LITERATURE STUDY

a) LITERATURE STUDY – 1

(HYDERABAD INTERNATIONAL CONVENTION CANTER)

b) LITERATURE STUDY – 2

(JAIPUR EXHIBITION AND CONVENTION CENTER (JECC))

4.1 Hyderabad International Convention Center (HICC)

Project details :

Location - NDVOTEL and HICC Complex, Kondapur, Hyderabad

Architect- Robert Matthew Johnson Marshall

Construction status - completed

Site area - 15 acres

Ground coverage - 45%

Client- APIIC



Venue Map:



Facilities :

- 1) Custom built to handle versatile events be it an international conference for 5000 delegates, a cocktail dinner for 4000 guests, a corporate party for 2000 people or even a board meeting for just 15.
- 2) 32 breakout rooms including specialized eating rooms, speaker, preparatory rooms, boardrooms and vip lounge.
- 3) 16 seater registration area.
- 4) A pillar free internal hall of net 6480 msq that can hold a 5000 delegate plenary and can be partitioned into 6 halls depending upon its use and requirement.
- 5) A spacious pre function foyer area of over 6000 msq of lobby space.
- 6) 12.5 m free ceiling height with catwalks and truss to hold heavy suspension and mobile operable walls.
- 7) Service pits every 6 m, with power, water and internet.
- 8) Automated telescopic tiered seating 2.5k.

Areas (Hall):

Hall 1- 435 msq Hall 2- 435 msq
Hall 3- 1914 msq Hall 4- 1914 msq
Hall 5- 435 msq Hall 6- 435 msq

Meeting room:

Varies From 120.75 To 122.82 Msq

Other spaces :

- 1- Organizer Suites
- 2- Business Centre
- 3- Clock Room
- 4- Facility Office
- 5- Communication Room
- 6- Vip Lounge
- 7- Interpretation Room
- 8- Admin Office
- 9- Office Space

Services offered:

1- Food and beverage-

The restaurant located on western side with an area of 792 msq is Designed to accommodate nearly 180 people.

2- Open exhibition area-

A total exhibition space of 32825 msq provided.

3- Car parking area-

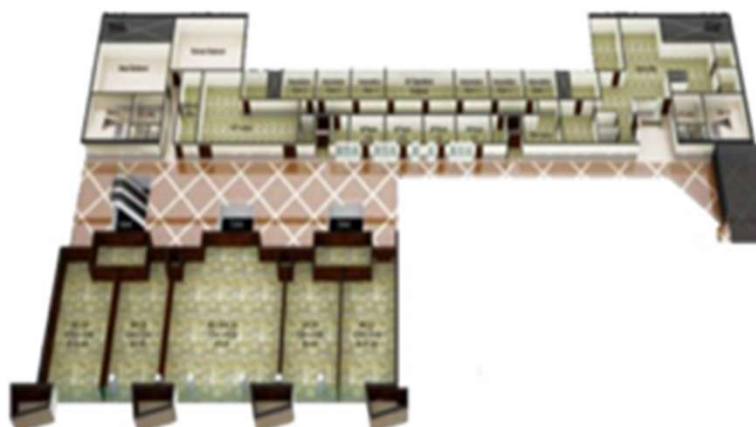
Nearly 1200 car parking slots for visitors/exhibitors. Separate car parking for organizers near trade fair office building. Separate Parking for heavy vehicles on north entrance of HICC.



Ground Floor



First Floor



Second Floor

4.2 Jaipur Exhibition and Convention Center (JECC)

Project Details :

Location - RIICO Industrial Area Sitapura, Jaipur

Architect - M.A. Architects

Client - Diligent Pink City Centre PVT LTD

Area - 42 Acres

Ground Coverage - 27204 Msq.

Site Plan:



Other features of hall:

- 1) The hall can also be used as a seminar hall when required.
- 2) When used for seminar purpose the hall has capacity of approx 8000 people.
- 3) Separate double height truck bay is provided for easy loading and unloading of goods.
- 4) Office and store room provided.
- 5) Separate ada toilets provided for handicapped.
- 6) For males 64 urinals and 18 wc are provided and for females 24 wc are provided.

Hall 1:

LEGEND

ENTRY / EXIT



WASHROOMS



THEATRE STYLE SEATING (8304 Seats)

SERVICE ENTRY / EXIT

(800 high rolling shutters)



EMERGENCY ENTRY / EXIT



Hall 2:

LEGEND

ENTRY / EXIT



WASHROOMS



3M X 3M BOOTHS

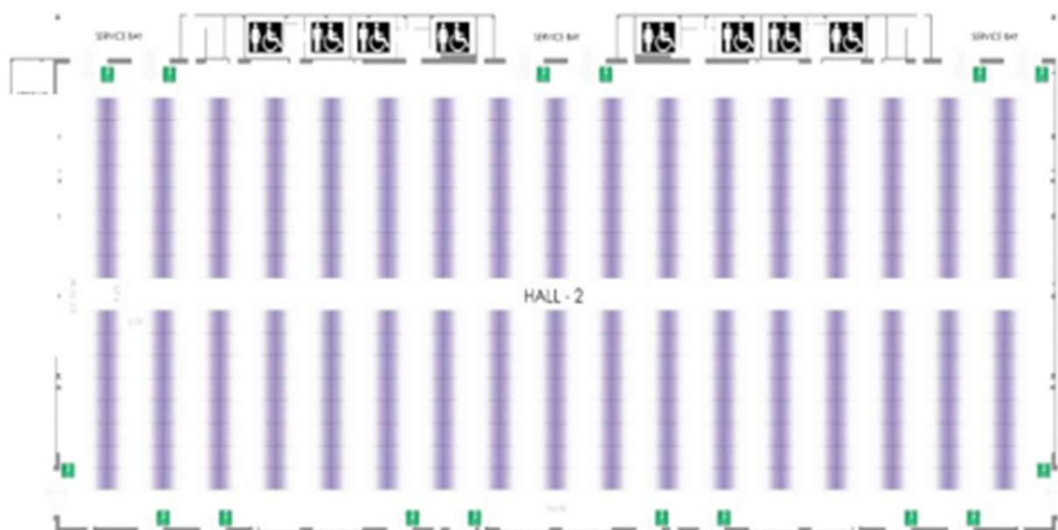
(Approximately 544 Booths)

SERVICE ENTRY / EXIT

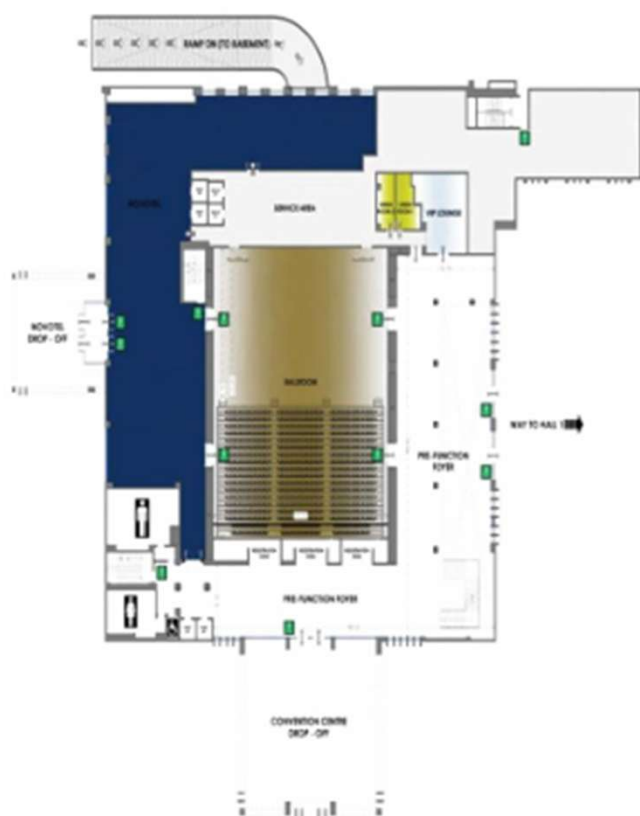
(800 high rolling shutters)



EMERGENCY ENTRY / EXIT



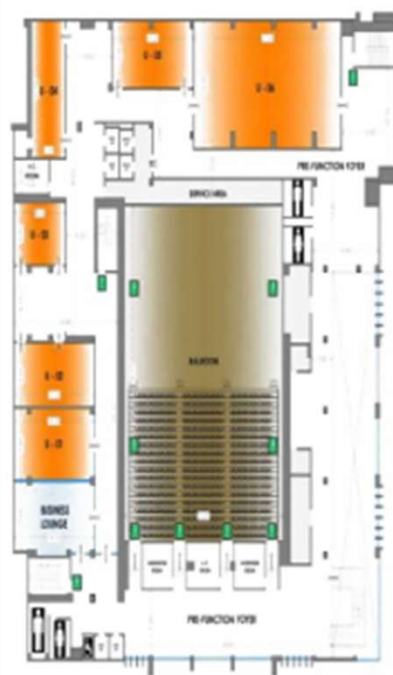
Auditorium:



Ground Floor



Lower Ground Floor



First Floor

Auditorium:

- 1) Consists of hall of area 1100 msq
- 2) Seating capacity of hall is 1200
- 3) Retractable fitted seating for 740
- 4) Stage size 32'x24'
- 5) Main entry brings the permanent registration counters that is turn give way to the pre function foyer
- 6) Two green rooms and a vip lounge
- 7) AV rooms and interpretation centre for 6 languages
- 8) Space of these rooms varies from 127 msq to 64 msq
- 9) This expansive centre also consists of 13 breakout rooms on upper floor.

Interior:



INFO BOARDS

ACOUSTICAL PANELS

HELP BOARD



VIP LOUNGE



LOBBY UPPER LVL.



BUSINESS LOUNGE



GREEN ROOM



RECEPTION



AUDITORIUM ENTRANCE



SEMINAR HALL



LIFTS



MEETING ROOM



CHAPTER -5 SITE STUDY

- INTRODUCTION
- SITE ANALYSIS
- CLIMATE ANALYSIS
- SITE SURROUNDING

5.1 SITE ANALYSIS

5.2 PROJECT DESCRIPTION

Introducing the proposed project and the client.

Brief objectives of the promoters and the user groups of the project .

5.2.1 Project Proposal

5.2.2 Project location

5.2.1 Project Proposal

The proposed convention Center project is to be located in the Gorakhpur, one of the fast growing city located in UP.

This integrated state-of-the art convention Center has been proposed by the GDA (Gorakhpur Development Authority).

5.2.2 Project Location

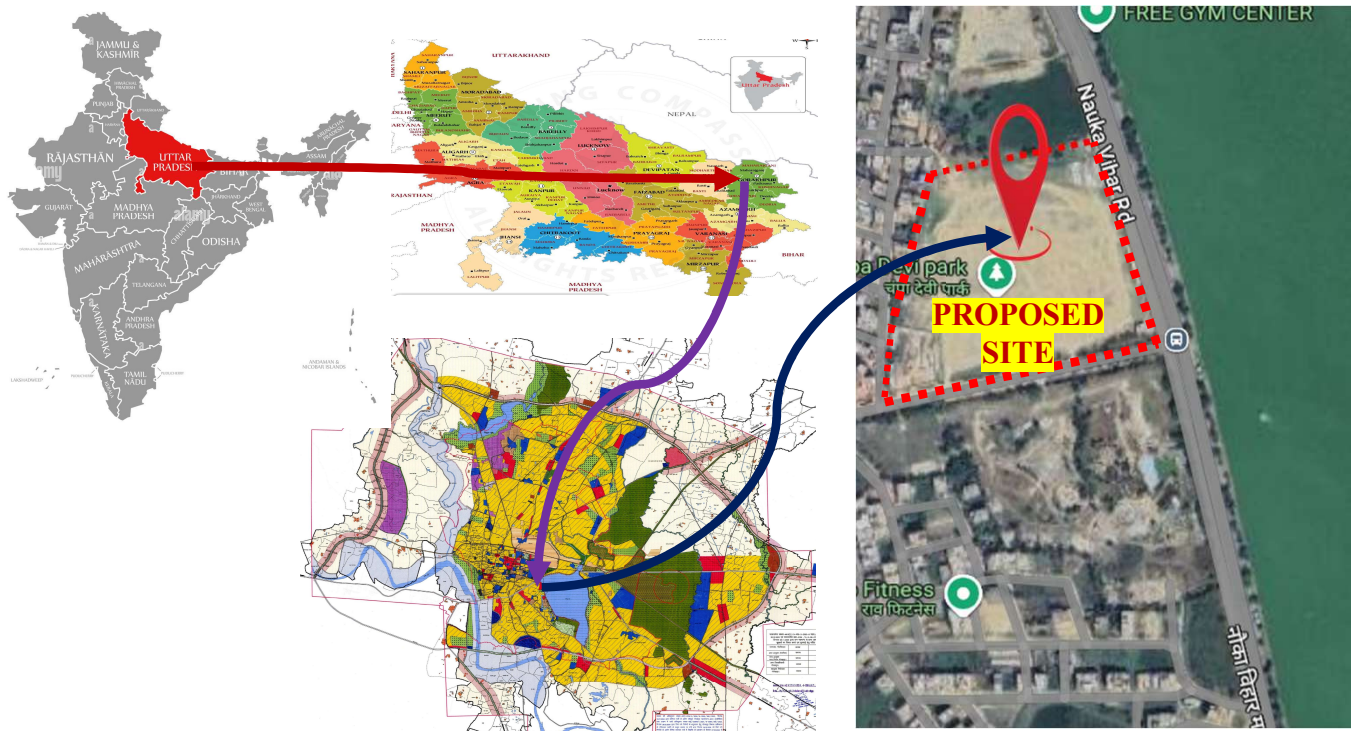
GDA has been proposed convention Center in the buddha vihar road, taramandal, gorakhpur.

The area for the proposed site is 12.5 acers and is an irregular quadrilateral surrounded by road on 2 sides.

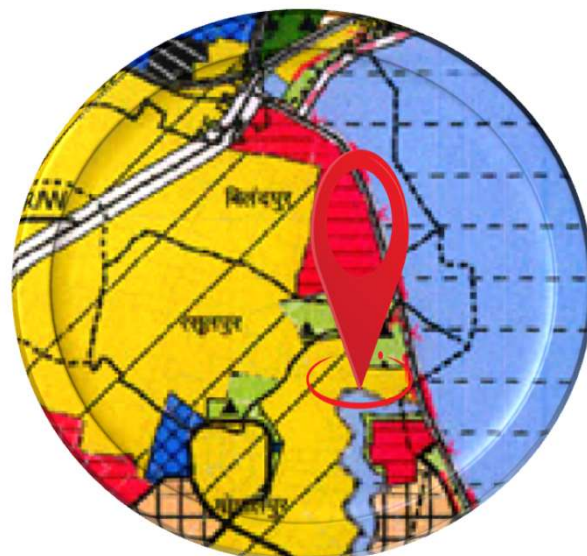
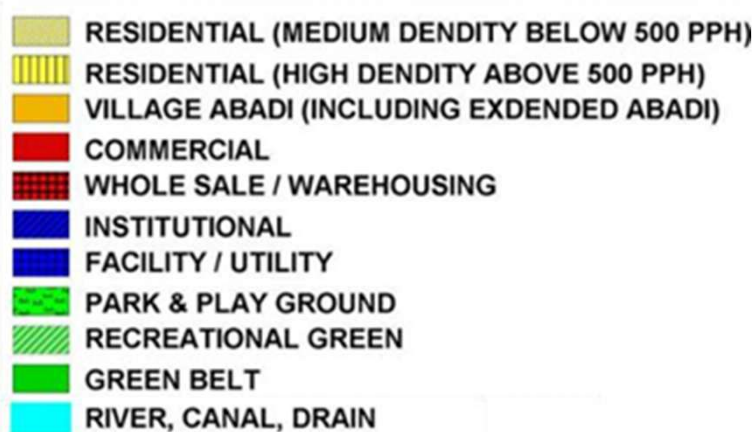
- **LOCATION-** The buddha Vihar road, Taramandal, Gorakhpur, UP.
- **CLIENT-** GDA (gorakhpur development authority).
- **COORDINATES:** [26.739111](#), [83.388342](#)
- **AREA:** 12.55 acre ~ 50800 SQ.M.
- **SITE SHAPE:** irregular shape
- **ELEVATION:** 75 m above sea level
- **EARTHQUAKE ZONE:** ZONE IV

5.2.3. SITE





5.2.4. LAND USE



5.2.5. SITE ACCESSIBILITY

- SITE**
- RAILWAY STATION- 4.5 KM**
- AIRPORT – 7.5 KM**
- BUS STATION- 4 KM**
- AIIMS - 4 KM**



5.2.6. NEARBY LANDMARK



- NAUKA VIHAR
1K M. AWAY FROM SITE



- COURTYARD HOTEL
250 M. AWAY FROM SITE



- GORAKHNATH TEMPLE
7.5 K.M. AWAY FROM SITE



- RACHIT HOSPITAL
2.5 KM. AWAY FROM SITE



- CIRCUIT HOUSE200 M
AWAY FROM SITE

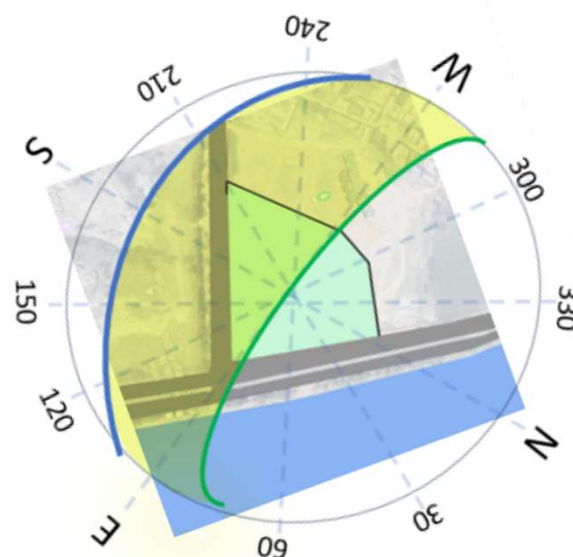


- AUDITORIUM
500 M. AWAY FROM SITE



- SHAHEED ASHFAQ ULLAH KHAN ZOOLOGICAL PARK 200
M. AWAY FROM SITE

5.2.7. SITE ORIENTATION



5.3. BYELAWS (GDA NORMS)

- FLOOR AREA RATIO – 1.5
- GROUND COVERAGE - 40%
- LANDSCAPE - 125 trees per of open space or 20% of plot area
- SETBACK – 9m (front) , 6m (on all sides)
- HEIGHT – 24m max. (GDA norms)

5.4. TOPOGRAPHY

Mostly flat surface with gentle slope towards east and south



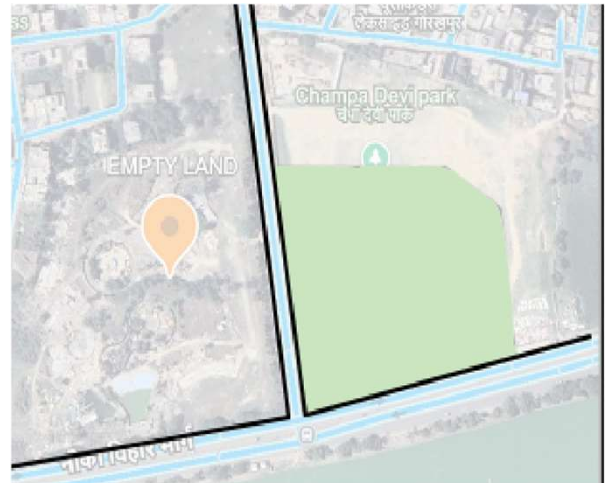
5.5. SOIL PROFILE

Alluvial soil, bearing capacity off soil is 150 kg/sq.



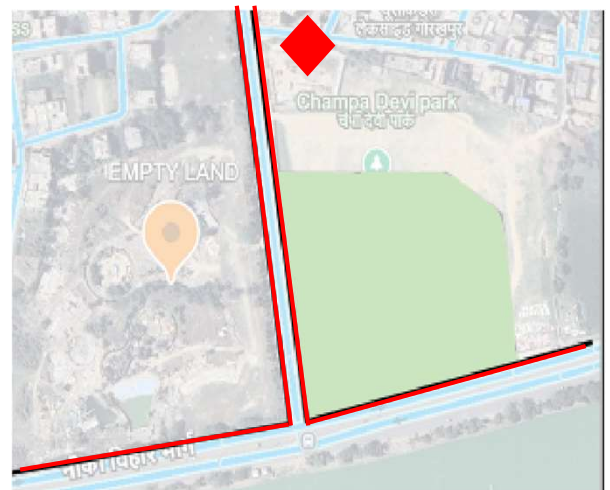
5.5.1. WATER SUPPLY & DRAINAGE

The main source of water is groundwater extracted through tube wells. Major drainage of this area is through river north east direction, sewer lines are present on north east and south west direction of site.



5.5.2. ELECTRICITY

Electric supply lines are passing through the site on south and northeast direction of site.



5.5.3. VEGETATION

Very scarce vegetation on site, mostly tall grasses and some Babool, ashoka trees present mostly on the south corner of the plot.



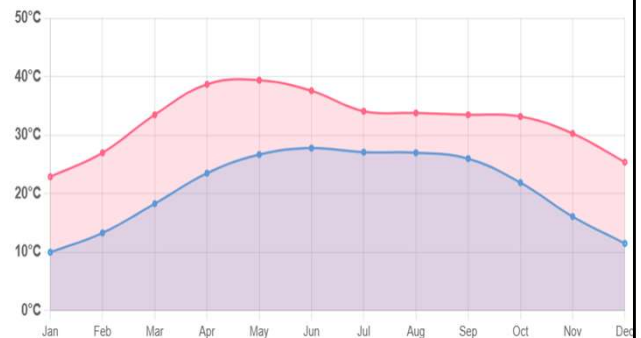
5.6. EDGE ANALYSIS



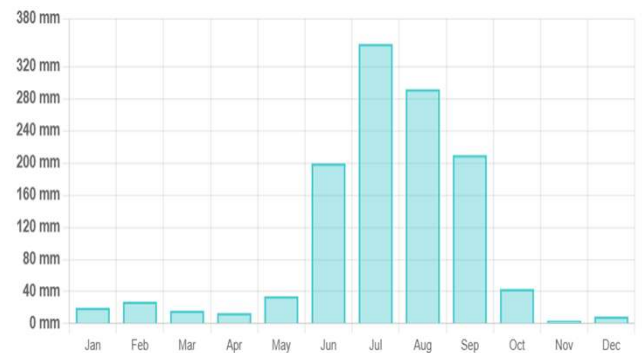
5.7. GENERAL CLIMATIC DATA

- The average Temperature of Gorakhpur is around 25°C although it vary from around 13°C during Winter (January) to 32°C during the Monsoon (June). The hottest month of the year is June with temperature varies from 25.0°C to 39.0°C.

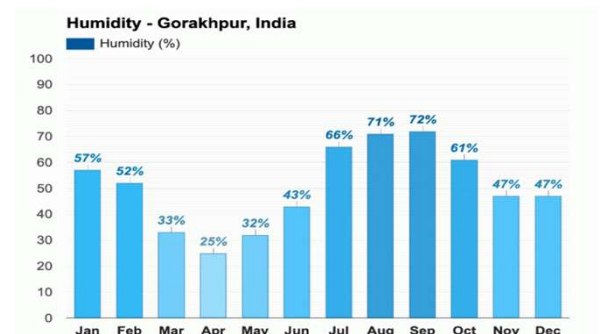
Temperature ranges by month



- Averaging **1215 mm** of rainfall annually. Gorakhpur can be quite wet during July, receiving approximately **348 mm** of precipitation. The rainy season starts from mid of June and continues up to the end of September.



- The month with the highest relative humidity is September (72%). The month with the lowest relative humidity is April (25%).



- The windiest month (with the highest average wind speed) is May (13.1km/h). The calmest months (with the lowest average wind speed) are October and November (7.1km/h)



CHAPTER -6 AREA ANALYSIS

		COMPARATIVE AREA ANALYSIS

53

CHAPTER -7 CONCEPT

7.1 Concept: Contemporary reflection of tradition.

7.1.1.Design Philosophy

The convention Center seeks to create a built environment that pays homage to india's rich cultural heritage through a modern architectural language. The design does not imitate tradition but **reinterprets it** using contemporary forms, materials, and technology.

7.1.2. It Is Reflected in the Building

7.2.1. Form & Massing

- Traditional Reference:** Mandala geometry, courtyards, temple shikharas, ghats
- Modern Interpretation:** Clean, geometric forms inspired by sacred geometry and axial planning. Central courtyards are used for light, ventilation, and gathering.

7.2.2. Façade design

- Traditional:** jaali (lattice screens), chhajja (overhangs), terracotta
- Modern:** cnc-cut jaali panels for shading and aesthetic appeal, glass and concrete surfaces with traditional motifs engraved or printed.

7.2.3. Roof Forms

- Traditional:** Domes, pitched roofs, temple shikhara
- Modern:** Sloped or folded roofs (e.g. petal-shaped auditorium roof) using steel and glass, symbolising abstracted forms of temple architecture.

7.2.4. Materials

- Traditional:** Sandstone, terracotta, lime plaster
- Modern:** Exposed concrete, terracotta cladding, and local stone with polished finishes—merging traditional textures with modern resilience.

7.2.5. Landscape & Site Planning

- Traditional:** Stepwells, kunds, ghats, sacred trees
- Modern:** Stepped plazas, water features, shaded courtyards, and **chabutra** seating beneath Neem or Peepal trees. Pathways inspired by temple processional routes.

7.2.6. Spatial Experience

- **Traditional:** Hierarchical spatial layout (from public to private), spiritual axis
- **Modern:** Zoning that allows seamless flow between public, semi-public, and private areas (e.g. administrative block → exhibition space → guest house), maintaining visual and physical connectivity.

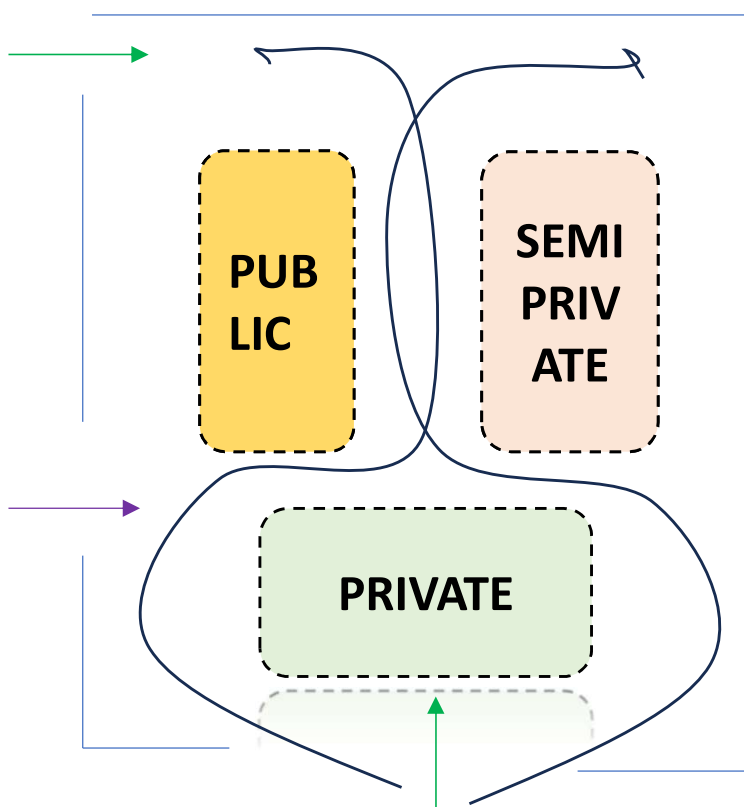
7.2.7. Cultural Elements

- Art & Craft Integration:** Murals, sculpture courts, and craft installations by local artisans.
- Lighting:** Natural lighting inspired by temple skylights and warm ambient artificial lighting to evoke a peaceful, spiritual ambience.

7.3.1. ZONNING

Zoning of campus-guided with through creation of corridors /spines to control space utilization and to give some open space to each functions with the segregation of public, Semi private and private spaces. Various functions were placed according to their requirements of separate entries, point of accessibility, type of users involved, their service requirement, their interaction with adjacent cent programme and importantly, site conditions were taken into consideration.

7.3.2. SITE ZONING



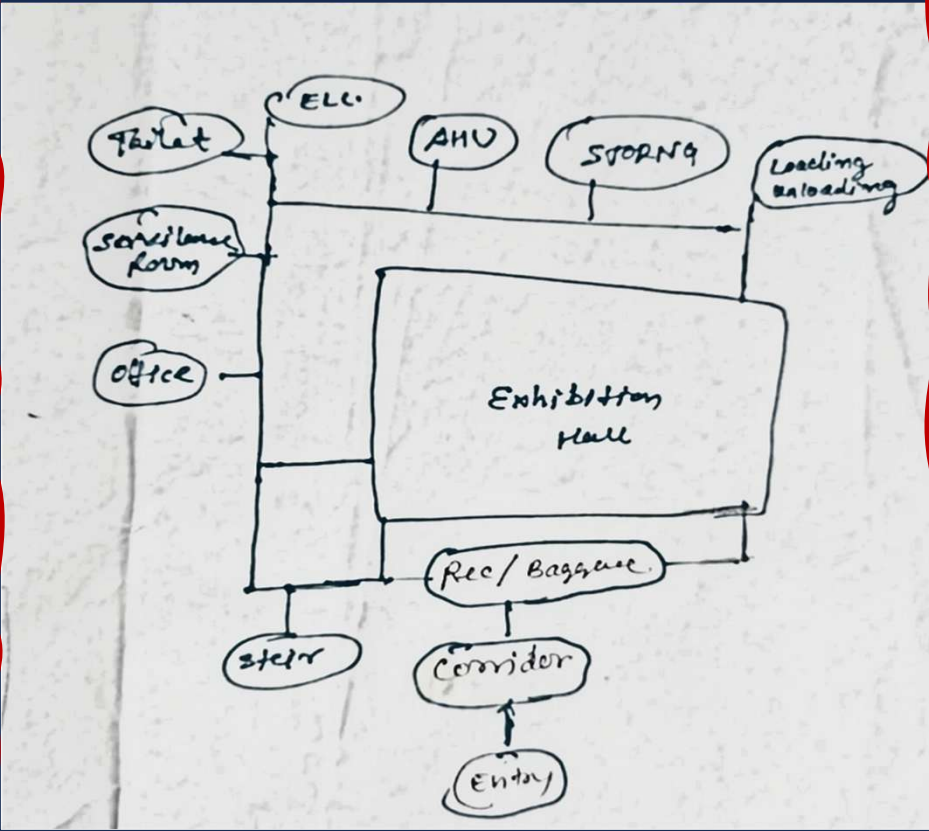
7.4. BUBBLE DIAGRAM

The image displays three hand-drawn bubble diagrams, each representing a different building block. Each diagram is enclosed in a red border and has a colored header bar.

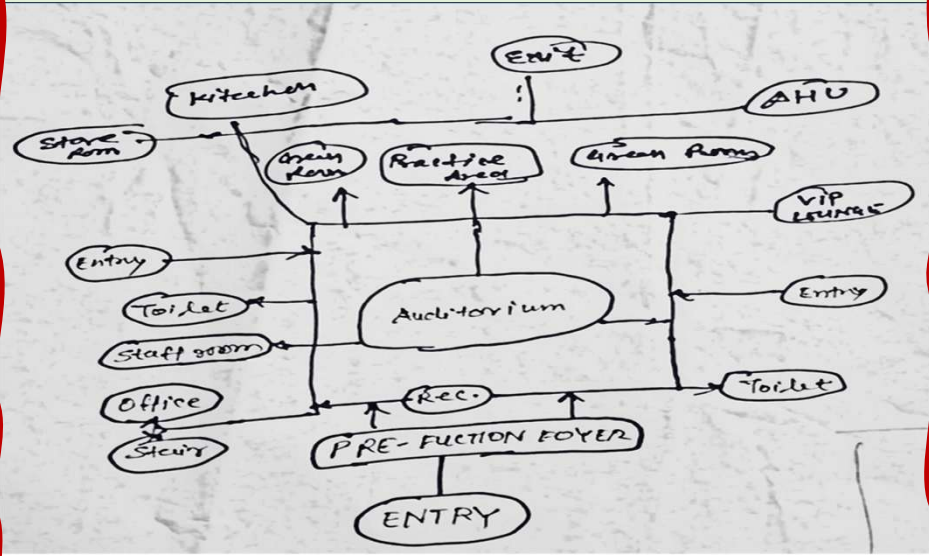
- Admin block (Blue header):** This diagram shows a central 'Seminar Hall' connected to various rooms. Rooms include 'Toilet', 'Admin', 'Reception', 'Meeting', 'Printing', 'Office', 'No. Office', 'Store', and 'Toilet'. A 'Stair' is also shown near the 'Reception' area.
- Exhibition block (Green header):** This diagram features a large central 'Exhibition Hall'. It is connected to 'Toilet', 'Surveillance Room', 'Office', 'ELC', 'AHU', 'STORNG', 'Loading/Unloading', 'Rec/Baggage', 'Corridor', and 'Entry'.
- Auditorium (White header):** This diagram shows a central 'Auditorium'. It is connected to 'Kitchen', 'Store Room', 'Drum Room', 'Practice Area', 'Screen Room', 'VIP Lounge', 'Entry', 'Toilet', 'Staff room', 'Office', 'Stair', 'PRE-FUNCTION FOYER', and 'ENTRY'.

57

Admin block



Exhibition block



Auditorium

CHAPTER -8 DRAWING

CHAPTER -9 BIBILIOGRAPHY

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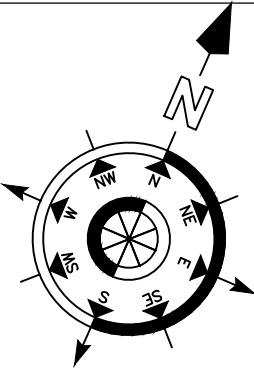
: THESIS TOPIC :

CONVENTION CENTRE
AT GORAKHPUR

AREA STATEMENT	AREA (SQM)
Site Area	50,800 sqm
Permissible Ground Coverage (40%)	20,320 sqm
Actual Ground Coverage (Block A + B + C)	12,523.45 sqm
Permissible FAR	1.5
Permissible Built-up Area	76,200 sqm
Actual Built-up Area (Block A + B + C)	17,020.54 sqm
FAR Used	0.33
Required Parking (1 ECS / 100 sqm built-up)	171 ECS

BUILDING BLOCK	GROUND COVERAGE AREA	BUILD-UP AREA (SQM)	BUILDING HEIGHT (M)
A (Admin)	2727.02	5132.02	8.5
B (Banquet + Guest House)	4394.85	5028.52	12.6
C (Auditorium + Exhibition)	5401.58	6860	12.6

NORTH POINT



SHEET TITLE

SITE PLAN

SCALE - 1:500

THESIS GUIDE

AR. ANSHU RASTOGI

SUBMITTED BY

PRATEEK NISHAD
B ARCH 5TH YEAR
(XTH SEMESTER)
ROLL NO.- 1200101017
SESSION-2024-25
BBDU, LUCKNOW.



BOTANICAL NAME
LOCAL NAME
HEIGHT
SPREAD
FLOWERING SEASON
COLOUR OF FLOWER
FRAGRANCE
LIGHT REQUIREMENT
REMARK
USAGE

Anthuraphis castamba
KADAMBA
DECIDUOUS / QUICK GROWING
15M-25M
12M-15M
AUG-SEP
ORANGE
YES
FULL SUN
PREFERS WARM MOST CLIMATE. IT CAN BE SUCCESSFULLY GROWN IN SUBHUMID CLIMATE. IT REQUIRES DEEP WELL DRAINED LIGHT SOIL.
ITS A BEAUTIFUL TALL TREE WITH DENSE FOLIAGE & CONICAL CROWN. MUCH ADMIRER FOR ITS GOLDEN BALL OF FLOWERS.
VERY SUITABLE FOR ROAD SIDE PLANTATION

BOTANICAL NAME
LOCAL NAME
TYPE
HEIGHT
SPREAD
FLOWERING SEASON
COLOUR OF FLOWER
FRAGRANCE
LIGHT REQUIREMENT
REMARK
USAGE

Casia fistula
AMALAKI
DECIDUOUS / SMALL TO MED SIZED
15M - 15M
SCOTTED FLOWERS APPEAR THROUGHOUT YEAR
YELLOW
FULL SUN
GROWS IN WIDE RANGE OF CLIMATIC CONDITIONS. IT CAN ALSO WITH STAND EXCESSIVE DROUGHT.
IT IS ONE OF THE MOST BEAUTIFUL TREES IN INDIA SO PLANTED IN PARKS IN CLUMPS & ALSO ALONG SMALL CITY ROADS

BOTANICAL NAME
LOCAL NAME
TYPE
HEIGHT
FLOWERING SEASON
COLOUR OF FLOWER
FRAGRANCE
LIGHT REQUIREMENT
REMARK
USAGE

ROYAL PONGAMIA
GULMOHRI TREE
EVERGREEN TREE
7 M - 10M
FLOWER THROUGHOUT THE YEAR
BRIGHT RED
FULL SUN
GROWS WELL IN WARM HUMID AND MOIST SOIL
PLANTED AT THE BACKGROUND OF SMALL GARDENS AROUND THE BORDERS OF LAKES, POOLS AND TANKS

BOTANICAL NAME
LOCAL NAME
TYPE
HEIGHT
SPREAD
FLOWERING SEASON
COLOUR OF FLOWER
FRAGRANCE
LIGHT REQUIREMENT
REMARK
USAGE

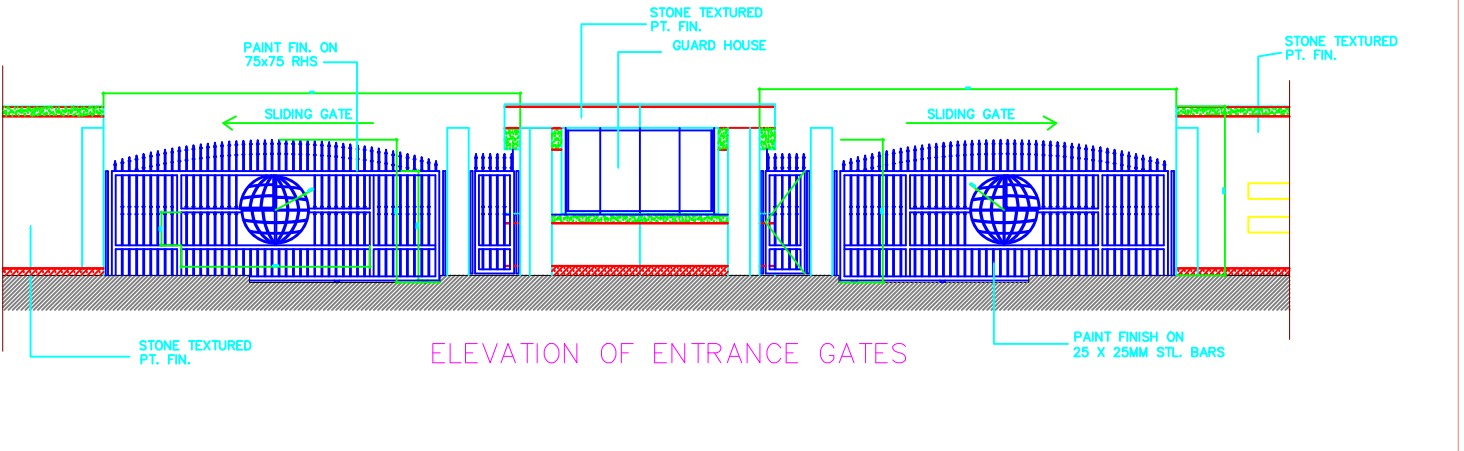
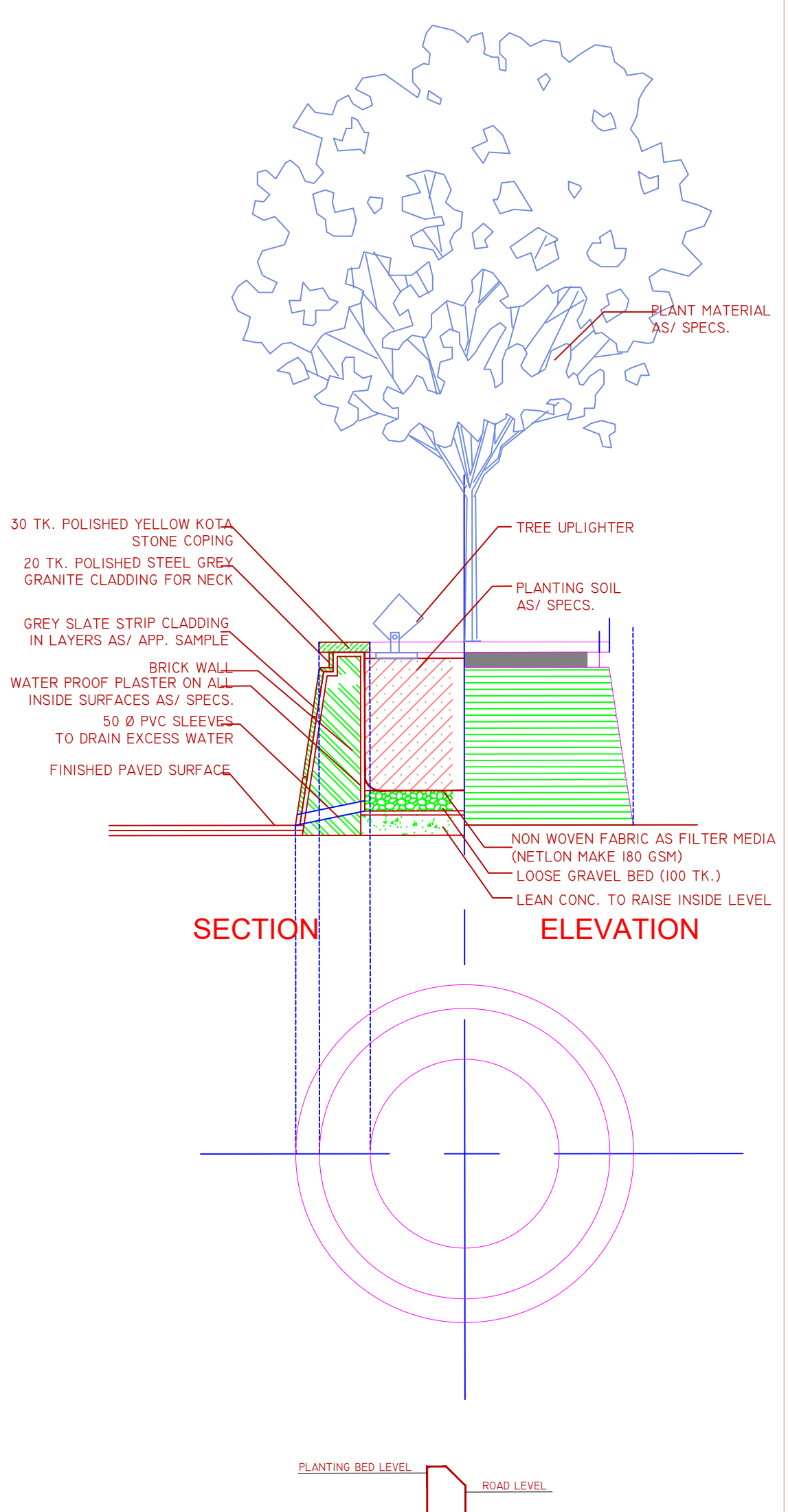
Saraca asoka
ASHOK
EVERGREEN
10-15 M
2.5 - 4 M
STAR SHAPED YELLOWISH GREEN
MARCH - APRIL
FULL SUN
GROWS IN ANY TYPE OF SOIL
PLANTED TO DEFINE AVENUES

BOTANICAL NAME
LOCAL NAME
TYPE
HEIGHT
SPREAD
FLOWERING SEASON
COLOUR OF FLOWER
FRAGRANCE
LIGHT REQUIREMENT
REMARK

Plumeria alba
CHAMPA, FRANGIPANI, PAGODA TREE
EVERGREEN
4-5 M
SCOTTED FLOWERS APPEAR THROUGHOUT THE YEAR
WHITE WITH YELLOW THROAT
YES
FULL SUN
FLOWERS BETTER IN POOR AND POROUS SOIL

PAVING UNIT
DRY SAND GROUT
GRANULAR BASE
COMPACTED EARTH

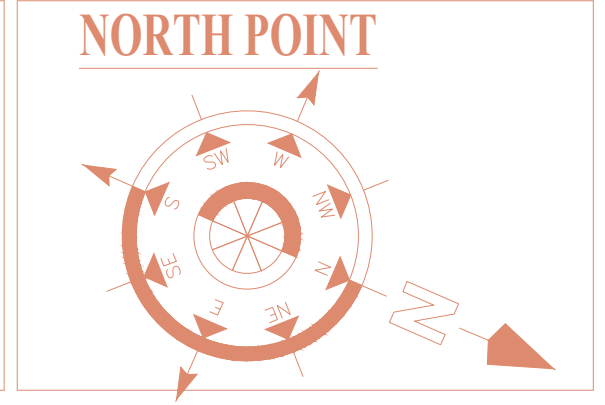
GOLDEN DURANTA (VARIGATED ORNAMENTAL HEDGE)
-GD
DWARF SMALL LEAVES
ARALIAS (4'-5')
-AR
EG. ORNAMENTAL SHINNING GREEN PATCHY LEAVES.



THESES TOPIC :
**CONVENTION CENTRE
AT GORAKHPUR ,UP**

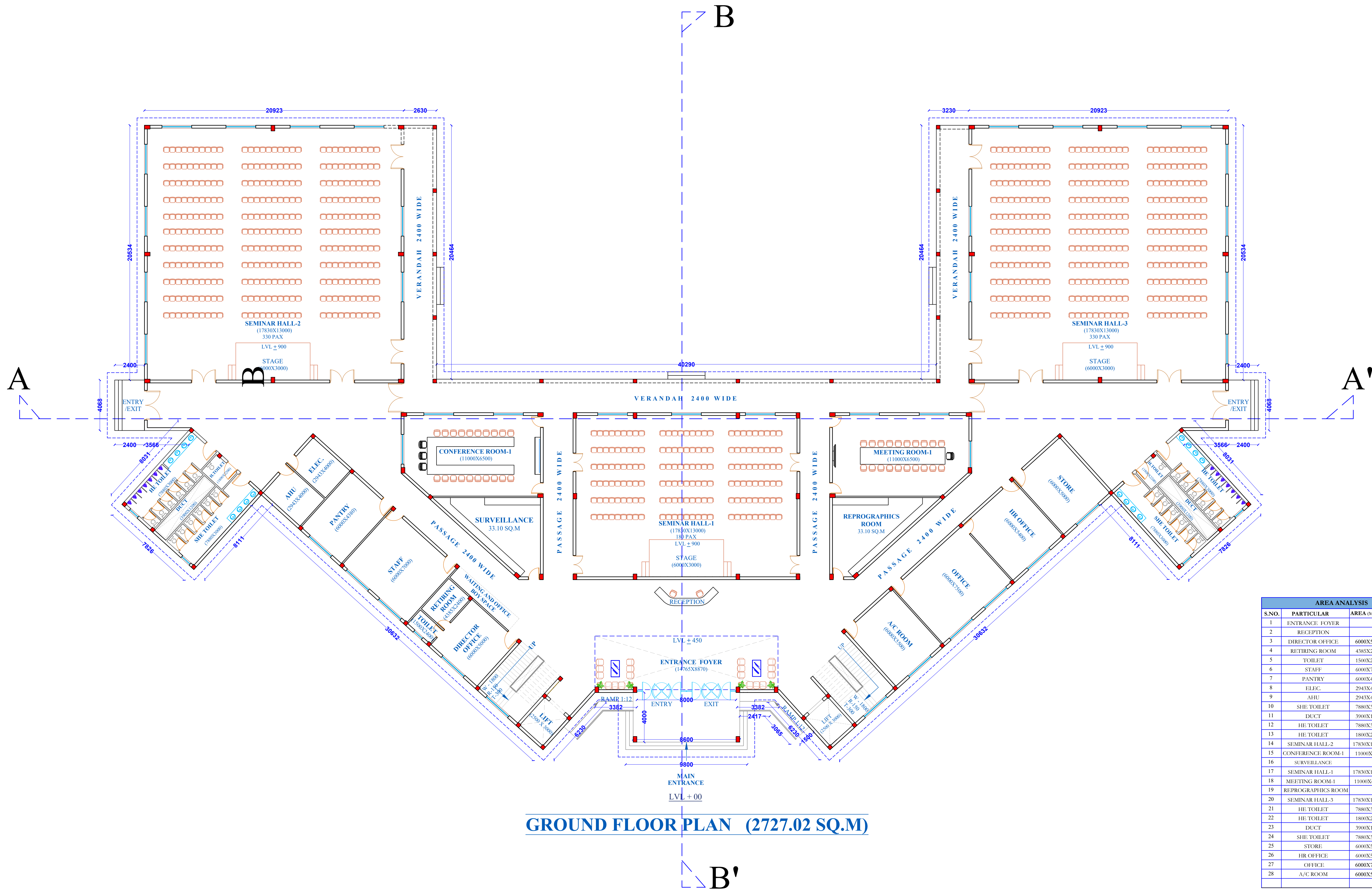
SHEET TITLE :
**LANDSCAPE PLAN
(ELECTIVE)**

SCALE :
1:500



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AR. ANSHU RASTOGI

SUBMITTED BY :
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ROLL NO.- 1200101017
SESSION-2024-25
BBDU, LUCKNOW.**

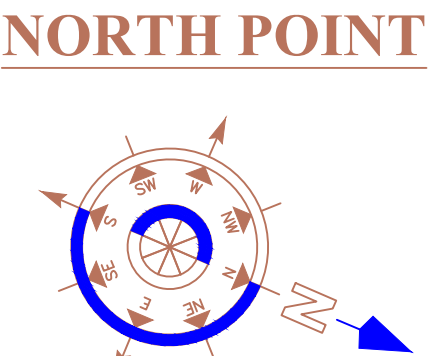


AREA ANALYSIS			
S.NO.	PARTICULAR	AREA (M-LXB)	AREA (SQ.M)
1	ENTRANCE FOYER		64.11
2	RECEPTION		21.41
3	DIRECTOR OFFICE	6000X5000	24.68
4	RETIRING ROOM	4385X2400	79.72
5	TOILET	1500X2400	36.73
6	STAFF	6000X7000	42.38
7	PANTRY	6000X4380	26.49
8	ELEC.	2943X4000	11.96
9	AHU	2943X4000	11.96
10	SHE TOILET	7880X3000	21.97
11	DUCT	3900X1200	71.39
12	HE TOILET	7880X3000	21.97
13	HE TOILET	1800X2200	42.15
14	SEMINAR HALL-2	17830X13000	231.50
15	CONFERENCE ROOM-1	11000X6500	69.48
16	SURVEILLANCE		33.10
17	SEMINAR HALL-1	17830X13000	231.50
18	MEETING ROOM-1	11000X6500	69.68
19	REPROGRAPHICS ROOM		33.10
20	SEMINAR HALL-3	17830X13000	231.50
21	HE TOILET	7880X3000	21.97
22	HE TOILET	1800X2200	42.15
23	DUCT	3900X1200	71.39
24	SHE TOILET	7880X3000	21.97
25	STORE	6000X5000	30.04
26	HR OFFICE	6000X5400	30.04
27	OFFICE	6000X7500	45.13
28	A/C ROOM	6000X5500	30.22

THEESIS TOPIC :
CONVENTION CENTRE AT
GORAKHPUR ,UP

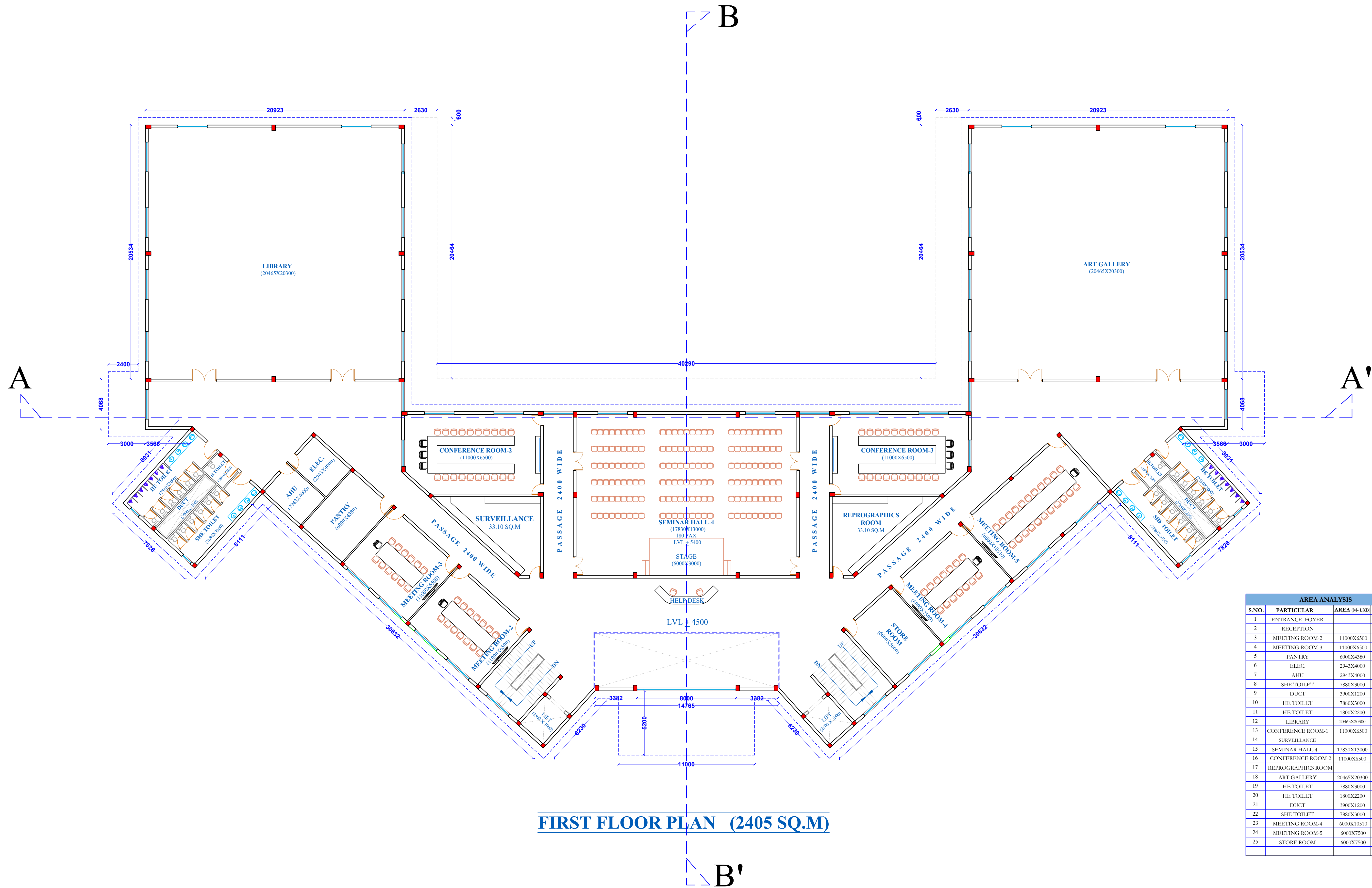
SHEET TITLE :
ADMINISTRATIVE /
CONVENTION BLOCK
(GROUND FLOOR PLAN)

SCALE :
1:150



THEESIS GUIDE :
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BBDU, LUCKNOW.



AREA ANALYSIS			
S.NO.	PARTICULAR	AREA (M- LXB)	AREA (SQ.M)
1	ENTRANCE- FOYER		64.11
2	RECEPTION		21.41
3	MEETING ROOM-2	11000X6500	45.50
4	MEETING ROOM-3	11000X6500	45.50
5	PANTRY	6000X4380	26.49
6	ELEC.	2943X4000	11.96
7	AHU	2943X4000	11.96
8	SHE TOILET	7880X3000	21.97
9	DUCT	3900X1200	71.39
10	HE TOILET	7880X3000	21.97
11	HE TOILET	1800X2200	42.15
12	LIBRARY	20465X20300	41.54
13	CONFERENCE ROOM-1	11000X6500	69.68
14	SURVEILLANCE		33.10
15	SEMINAR HALL-4	17830X13000	231.50
16	CONFERENCE ROOM-2	11000X6500	69.68
17	REPROGRAPHICS ROOM		33.10
18	ART GALLERY	20465X20300	41.55
19	HE TOILET	7880X3000	21.97
20	HE TOILET	1800X2200	42.15
21	DUCT	3900X1200	71.39
22	SHE TOILET	7880X3000	21.97
23	MEETING ROOM-4	6000X10510	63.54
24	MEETING ROOM-5	6000X7500	45.41
25	STORE ROOM	6000X7500	30.21

THESIS TOPIC :

CONVENTION CENTRE
AT GORAKHPUR, UP

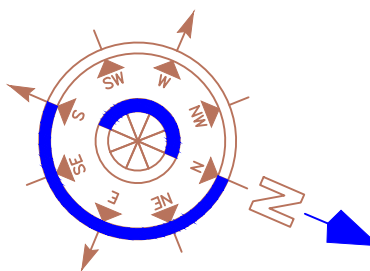
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ADMINISTRATIVE /
CONVENTION BLOCK
(FIRST FLOOR PLAN)

SCALE :

1:150

NORTH POINT

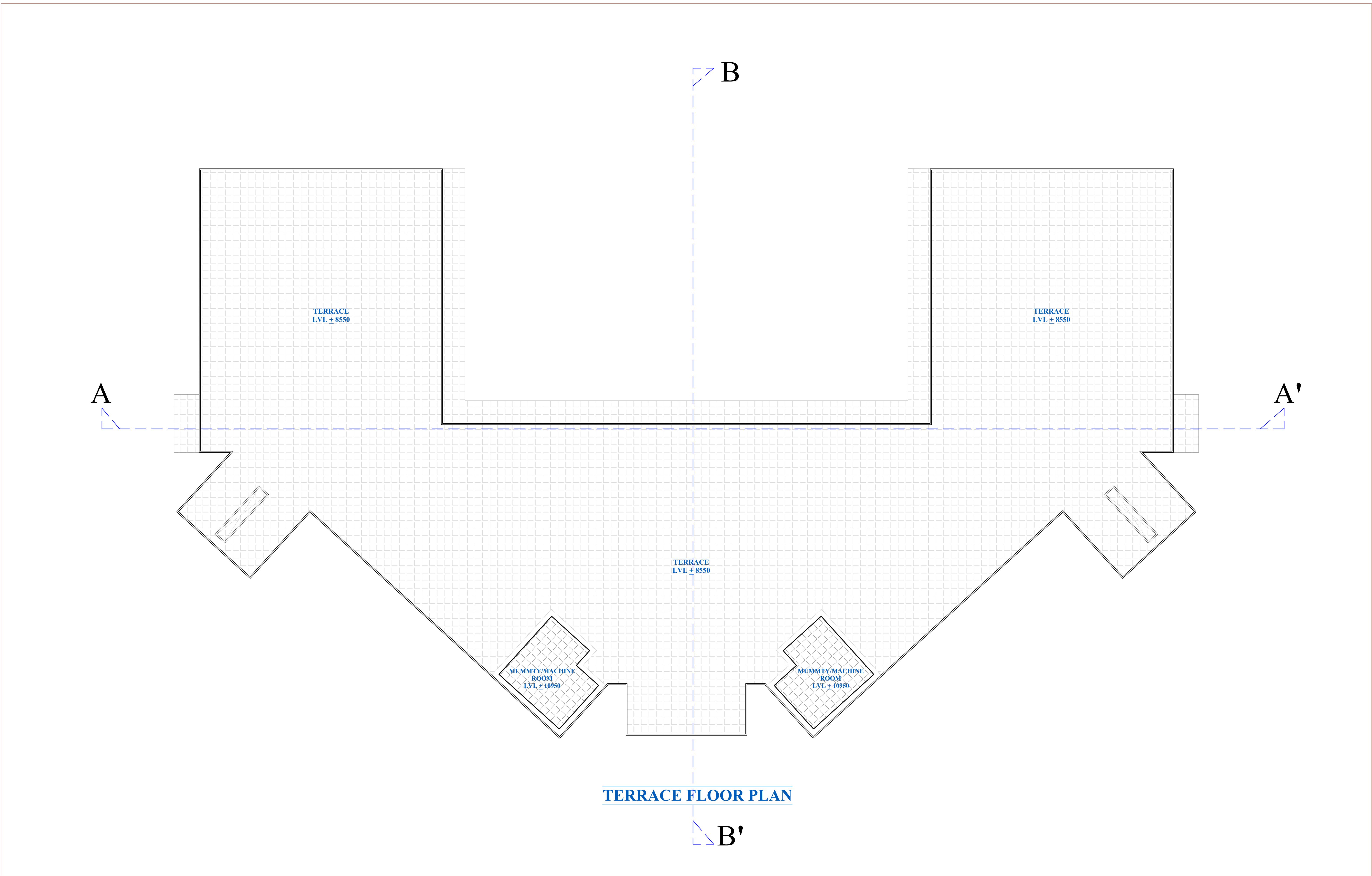


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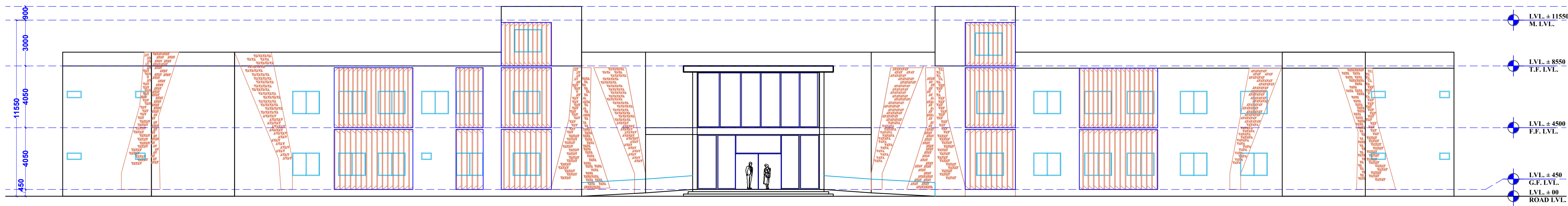
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SUBMITTED BY :

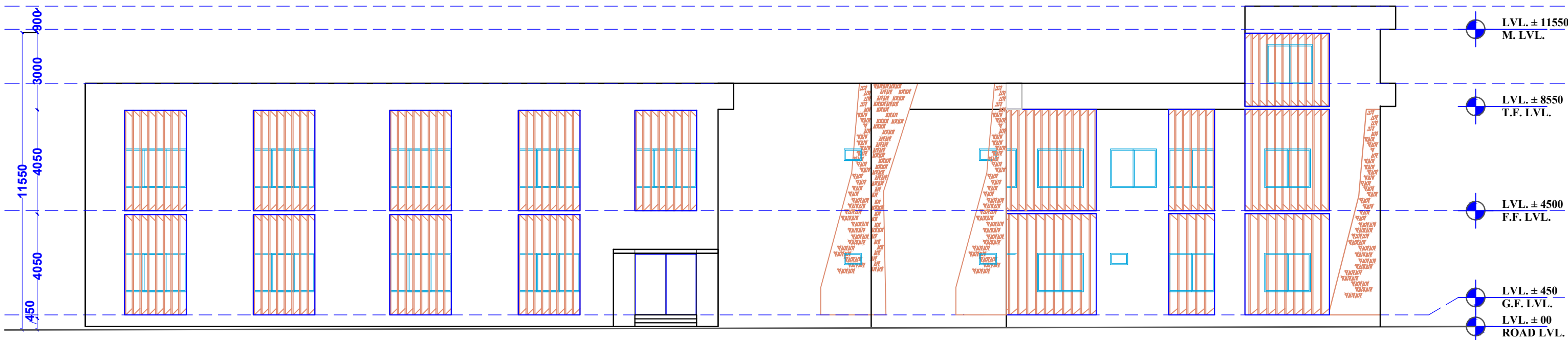
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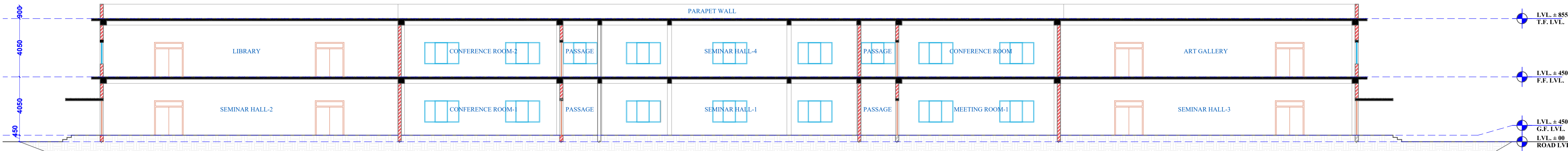
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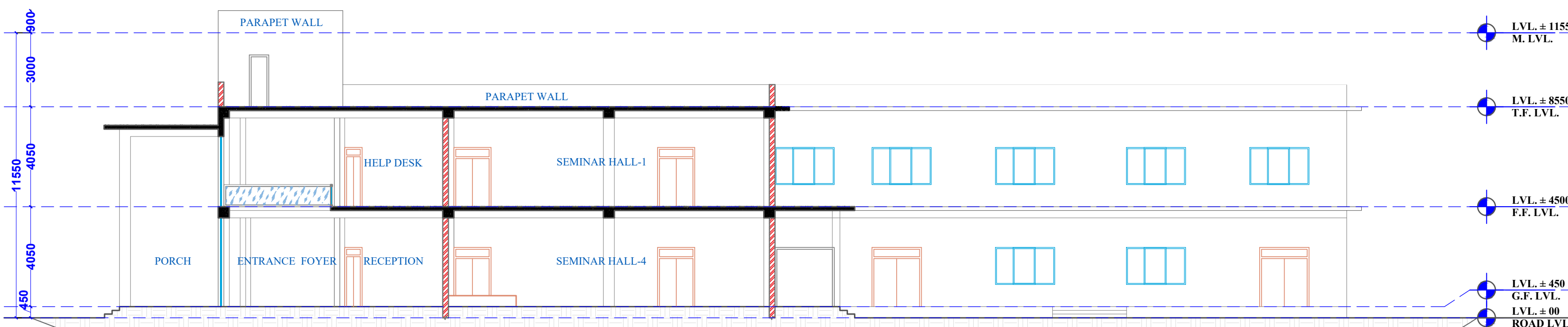
FRONT ELEVATION



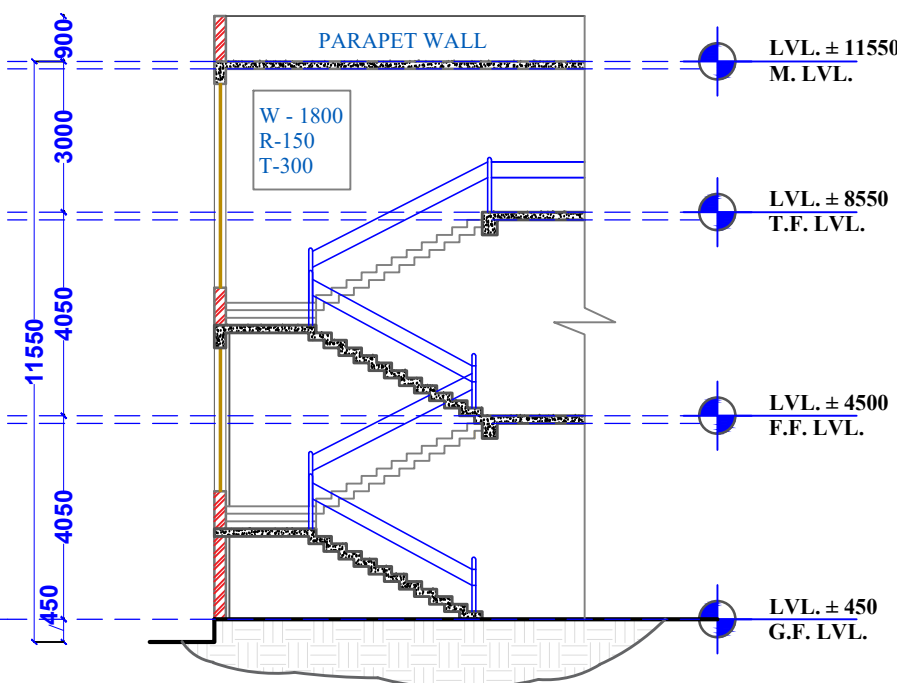
SIDE ELEVATION



SECTION AT AA'



SECTION AT BB'



STAIR DETAILS

THESIS TOPIC :

CONVENTION CENTRE
AT GORAKHPUR, UP

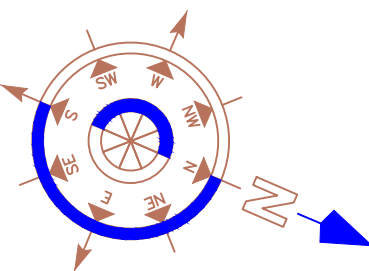
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ADMINISTRATIVE /
CONVENTION BLOCK
(ELEVATION AND SECTION)

SCALE :

1:150

NORTH POINT

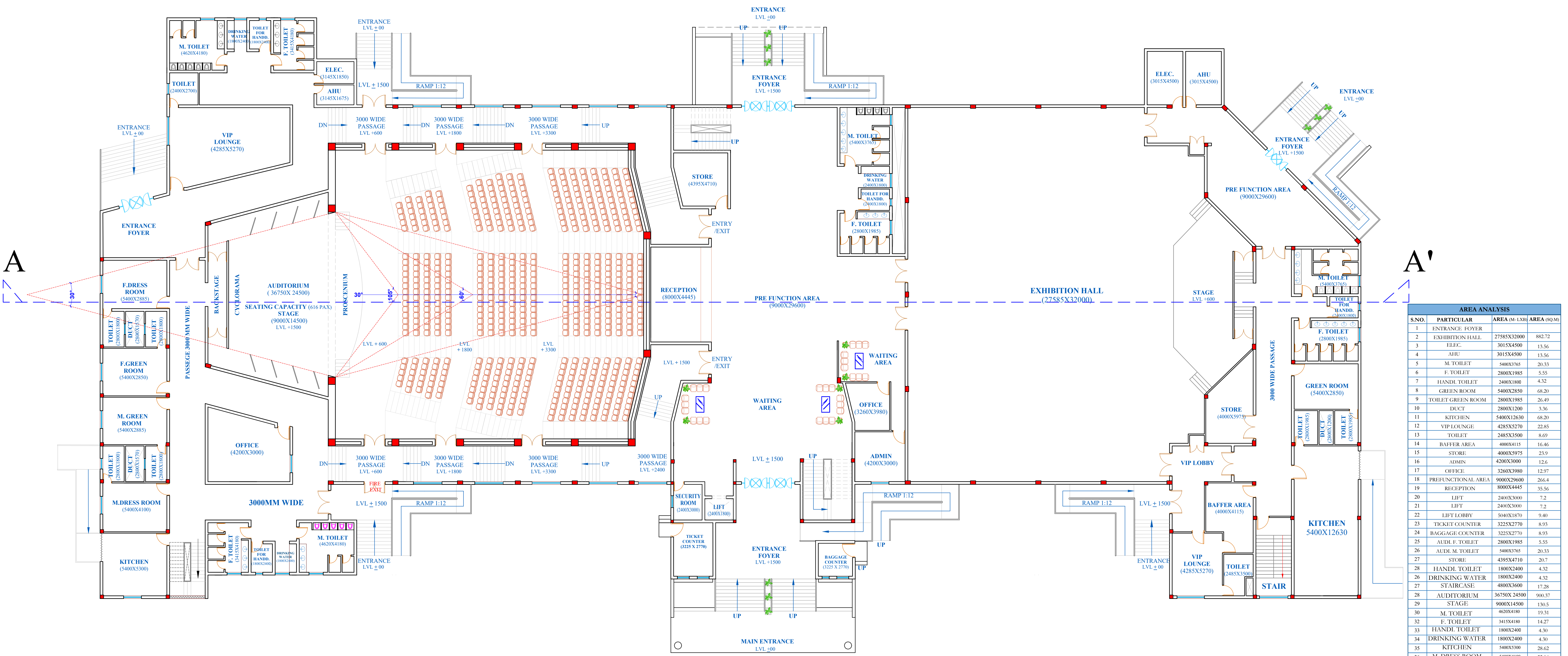


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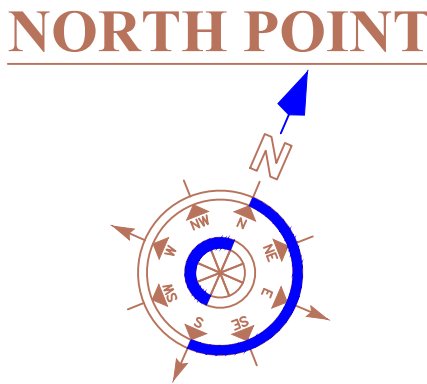
GROUND FLOOR PLAN (4394.85 SQ.M)

AREA ANALYSIS			
S.NO.	PARTICULAR	AREA (M. LXH)	AREA (SQ.M)
1	ENTRANCE FOYER	27585X32000	882.72
2	EXHIBITION HALL	3015X4500	13.56
3	ELEC.	3015X4500	13.56
4	AHU	3015X4500	13.56
5	M. TOILET	5400X3765	20.33
6	F. TOILET	2800X1985	5.55
7	HANDL. TOILET	2400X1800	4.32
8	GREEN ROOM	5400X2850	68.20
9	TOILET GREEN ROOM	2800X1985	26.49
10	DUCT	2800X1200	3.36
11	KITCHEN	5400X12630	68.20
12	VIP LOUNGE	4285X5270	22.85
13	TOILET	2485X3500	8.69
14	BAFFER AREA	4000X4115	16.46
15	STORE	4000X5975	23.9
16	ADMIN	4200X3000	12.6
17	OFFICE	3260X3980	12.97
18	PREFUNCTIONAL AREA	9000X29600	266.4
19	RECEPTION	8000X4445	35.56
20	LIFT	2400X3000	7.2
21	LIFT	2400X3000	7.2
22	LIFT LOBBY	5040X1870	9.40
23	TICKET COUNTER	3225X2770	8.93
24	BAGGAGE COUNTER	3225X2770	8.93
25	AUDL F. TOILET	2800X1985	5.55
26	AUDL M. TOILET	5400X3765	20.33
27	STORE	4395X4710	20.7
28	HANDL. TOILET	1800X2400	4.32
29	DRINKING WATER	1800X2400	4.32
30	STAIRCASE	4800X3600	17.28
31	AUDITORIUM	36750X 24500	900.37
32	STAGE	9000X14500	130.5
33	F. TOILET	3415X4180	14.27
34	HANDL. TOILET	1800X2400	4.30
35	DRINKING WATER	1800X2400	4.30
36	KITCHEN	5400X3500	22.14
37	M. DRESS ROOM	5400X4100	22.14
38	OFFICE	4200X3000	12.6
39	TOILET	2800X1800	5.04
40	TOILET	2800X1800	5.04
41	F. GREEN ROOM	5400X2850	15.39
42	F. DRESS ROOM	5400X2885	15.40
43	TOILET	2800X1800	5.04
44	TOILET	2800X1800	5.04
45	DRINKING WATER	1800X2400	4.32
46	TOILET	2800X1800	5.04
47	VIP LOUNGE	4285X5270	22.55
48	TOILET	2400X2700	6.48
49	M. TOILET	4620X4180	19.31
50	DRINKING WATER	1800X2400	4.32
51	HANDL. TOILET	1800X2400	4.32
52	F. TOILET	3415X4180	14.25
53	ELEC.	3145X1850	5.80
54	AHU	3145X1675	5.24

THESES TOPIC :
CONVENTION CENTRE
AT GORAKHPUR, UP

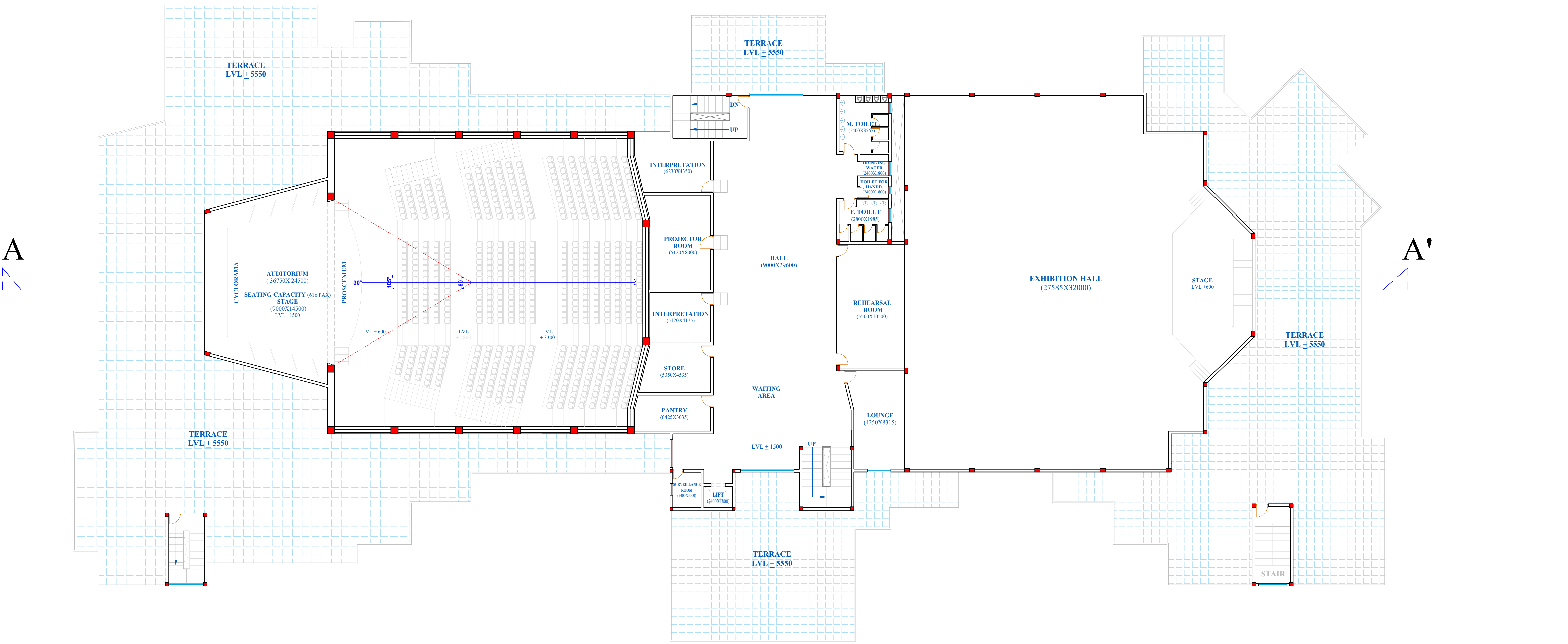
SHEET TITLE :
AUDITORIUM AND
EXHIBITION BLOCK
(GROUND FLOOR PLAN)

SCALE :
1:150



THESES GUIDE :
AR. ANSHU RASTOGI

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BBDU, LUCKNOW.



FIRST FLOOR PLAN (633.67 SQ.M)

AREA ANALYSIS			
S.NO.	PARTICULAR	AREA (M-LXB)	AREA (SQ.M)
1	SURVEILLANCE ROOM	2400X3000	7.20
2	STORE	5350X4535	24.26
3	INTERPRETATION	5120X4175	21.35
4	INTERPRETATION	6230X4350	27.10
5	PROJECTOR ROOM	5120X8000	40.96
6	REHEARSAL ROOM	5500X10500	57.75
7	LOUNGE	4250X8315	34.65

THESIS TOPIC :

SHEET TITLE :

SCALE :

NORTH POINT

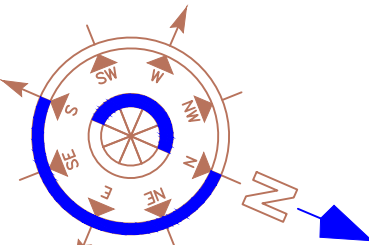
THESIS GUIDE :

SUBMITTED BY :

CONVENTION CENTRE
AT GORAKHPUR, UP

AUDITORIUM AND
EXHIBITION BLOCK
(FIRST FLOOR PLAN)

1:150



AR. ANSHU RASTOGI

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A



A'



TERRACE
LVL + 5550

TERRACE
LVL + 5550

TERRACE
LVL+12600

TERRACE
LVL + 5550

MUMTY
LVL+12600

TERRACE
LVL+9600

TERRACE
LVL+12600

TERRACE
LVL + 5550

TERRACE
LVL + 5550

MUMTY
LVL +
9600

MACHINE
ROOM
LVL+12600

MUMTY
LVL+12600

TERRACE
LVL + 5550

MUMTY
LVL
+9600

TERRACE FLOOR PLAN

THESIS TOPIC :

CONVENTION CENTRE
AT GORAKHPUR, UP

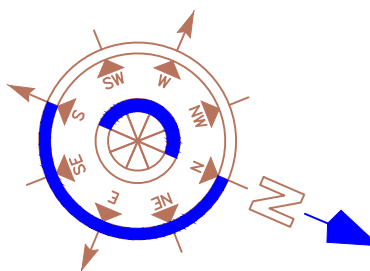
SHEET TITLE :

AUDITORIUM AND
EXHIBITION BLOCK
(TERRACE FLOOR PLAN)

SCALE :

1:150

NORTH POINT

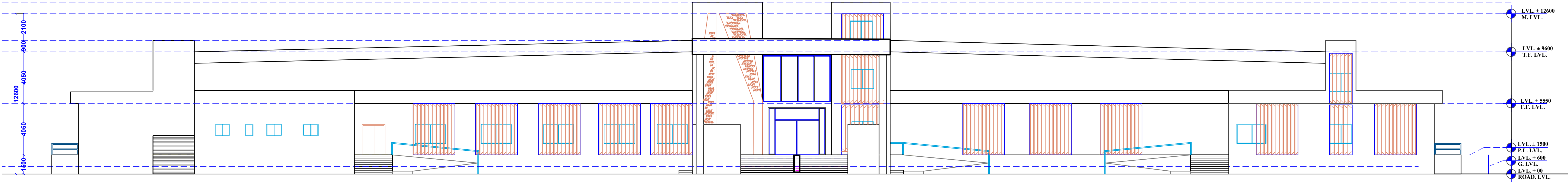


THESIS GUIDE :

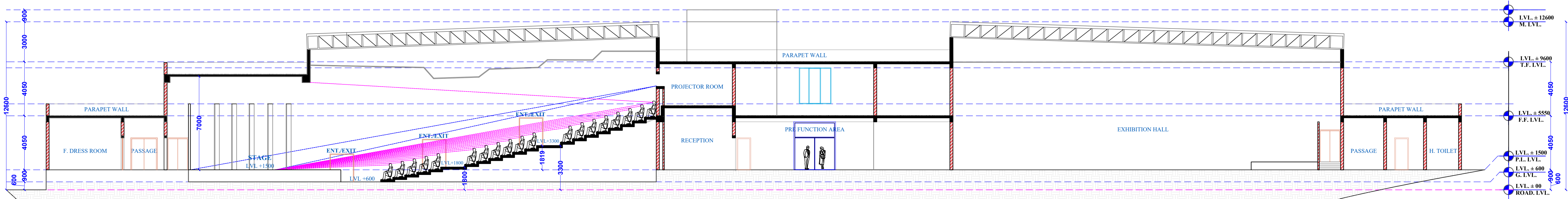
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SESSION-2024-25
BBDU, LUCKNOW.



FRONT ELEVATION



SECTION AT AA'

THESIS TOPIC :

CONVENTION CENTRE
AT GORAKHPUR, UP

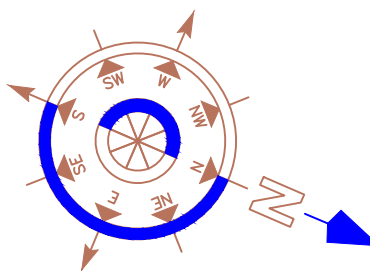
SHEET TITLE :

AUDITORIUM AND
EXHIBITION BLOCK
(TERRACE FLOOR PLAN)

SCALE :

1:150

NORTH POINT

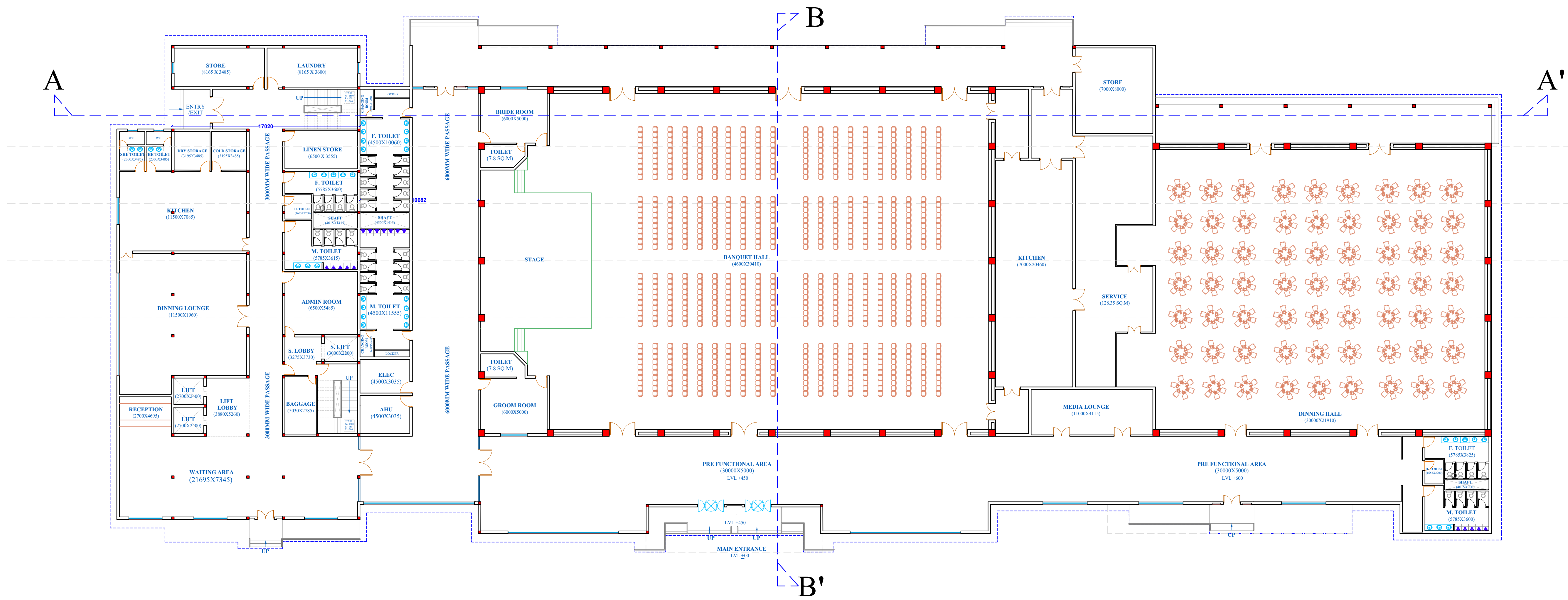


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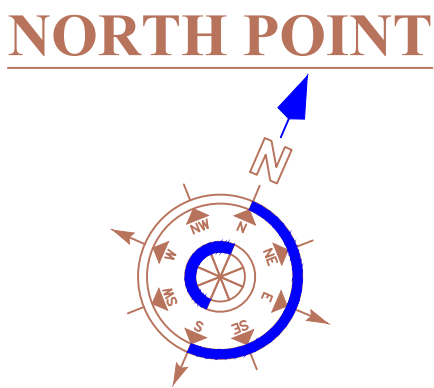


GROUND FLOOR PLAN (5401.58 SQ.M)

THESIS TOPIC :
**CONVENTION CENTRE
AT GORAKHPUR, UP**

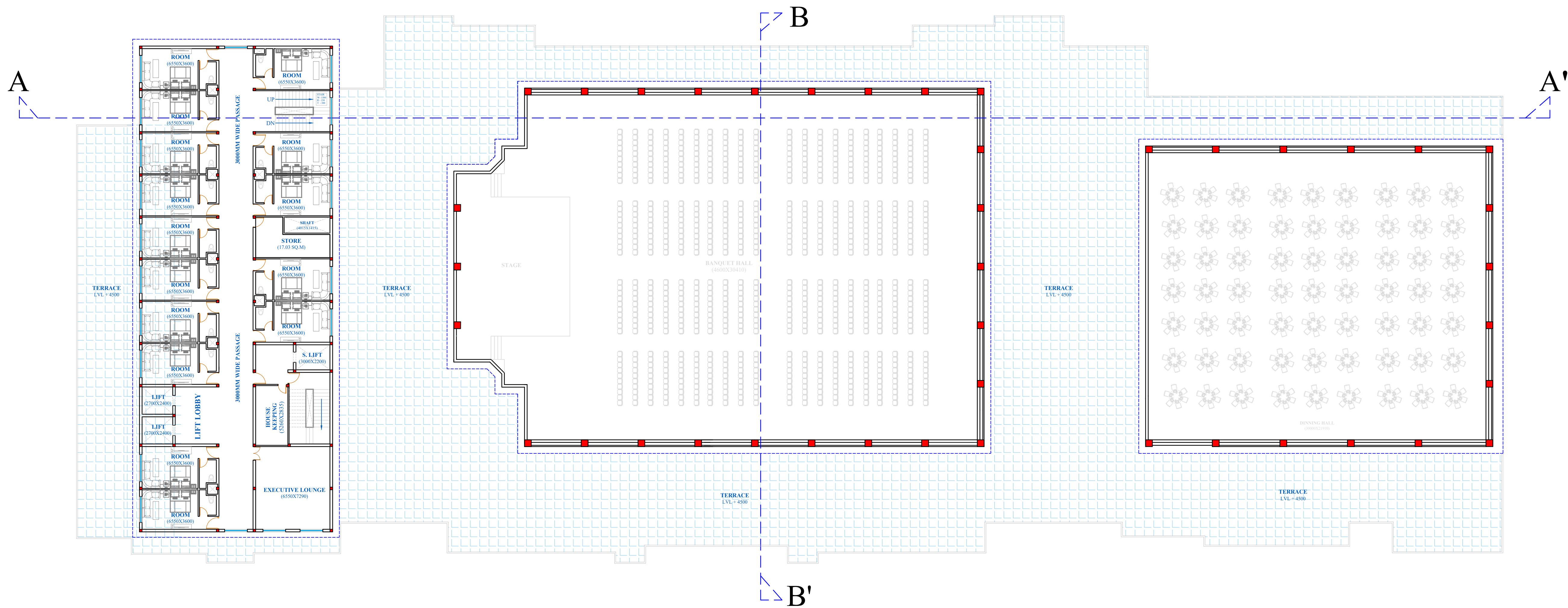
SHEET TITLE :
**BANQUET AND GUEST
HOUSE
(GROUND FLOOR PLAN)**

SCALE :
1:150



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ROLL NO.- 1200101017
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FIRST FLOOR PLAN (729.21 SQ.M)

THESIS TOPIC :

CONVENTION CENTRE AT
GORAKHPUR ,UP

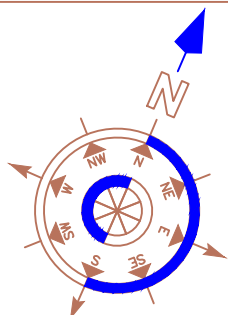
SHEET TITLE :

BANQUET AND GUEST
HOUSE
(FIRST FLOOR PLAN)

SCALE :

1:150

NORTH POINT

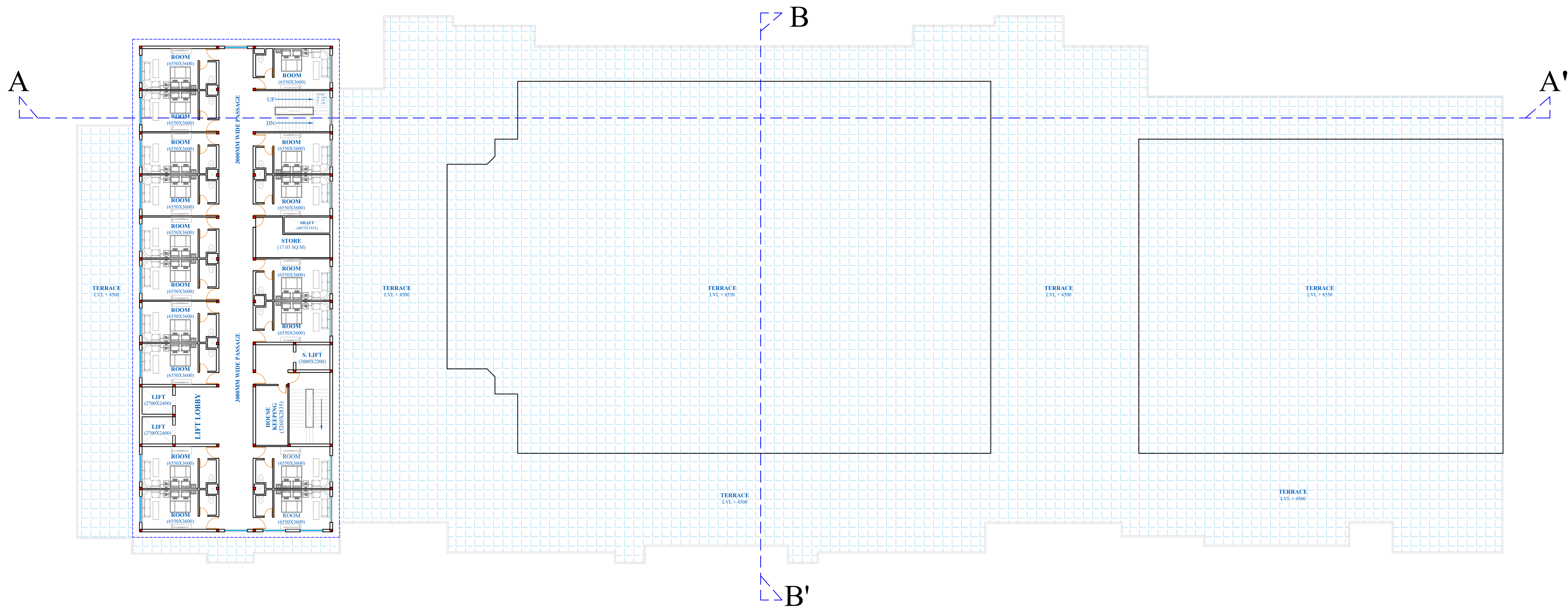


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SECOND FLOOR PLAN (729.21 SQ.M)

THESIS TOPIC :

CONVENTION CENTRE
AT GORAKHPUR, UP

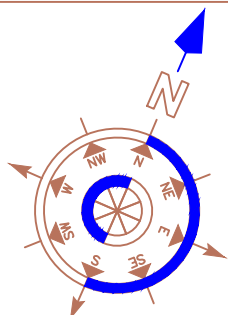
SHEET TITLE :

BANQUET AND GUEST
HOUSE
(SECOND FLOOR PLAN)

SCALE :

1:150

NORTH POINT

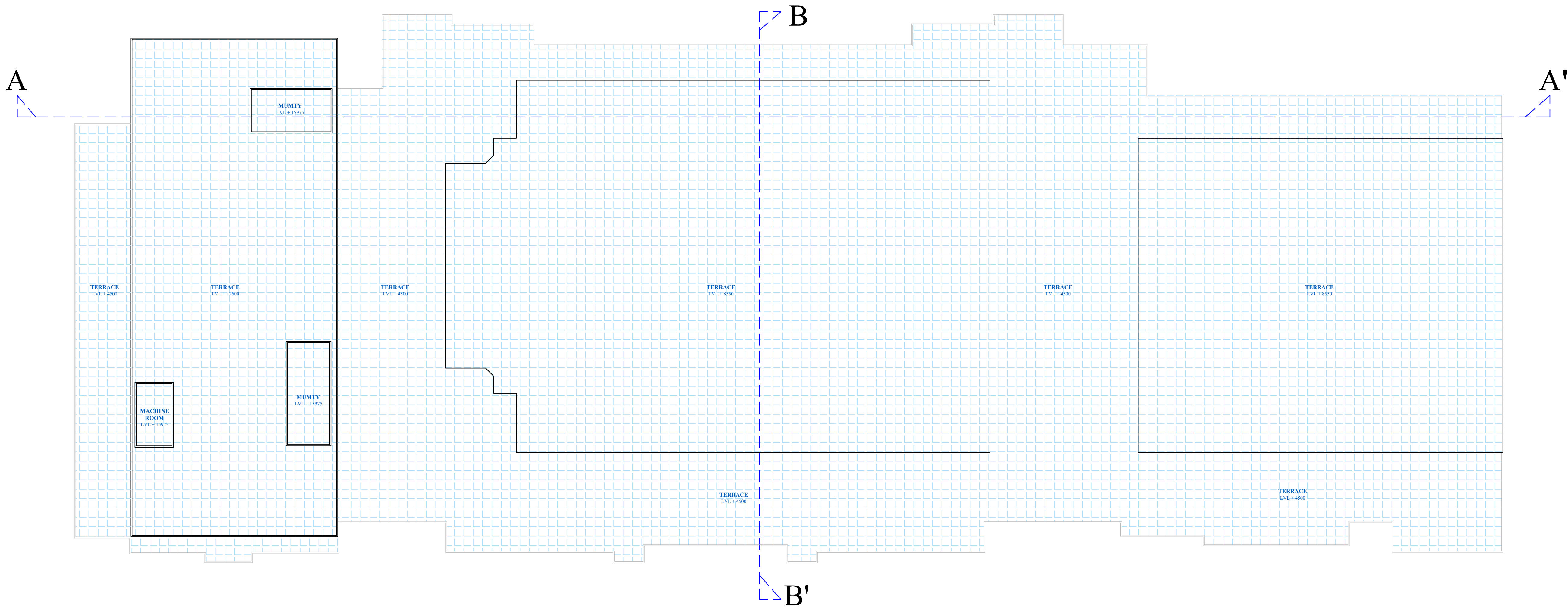


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TERRACE FLOOR PLAN

THESIS TOPIC :

CONVENTION CENTRE
AT GORAKHPUR, UP

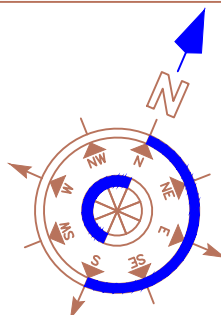
SHEET TITLE :

BANQUET AND GUEST
HOUSE
(TERRACE FLOOR PLAN)

SCALE :

1:150

NORTH POINT

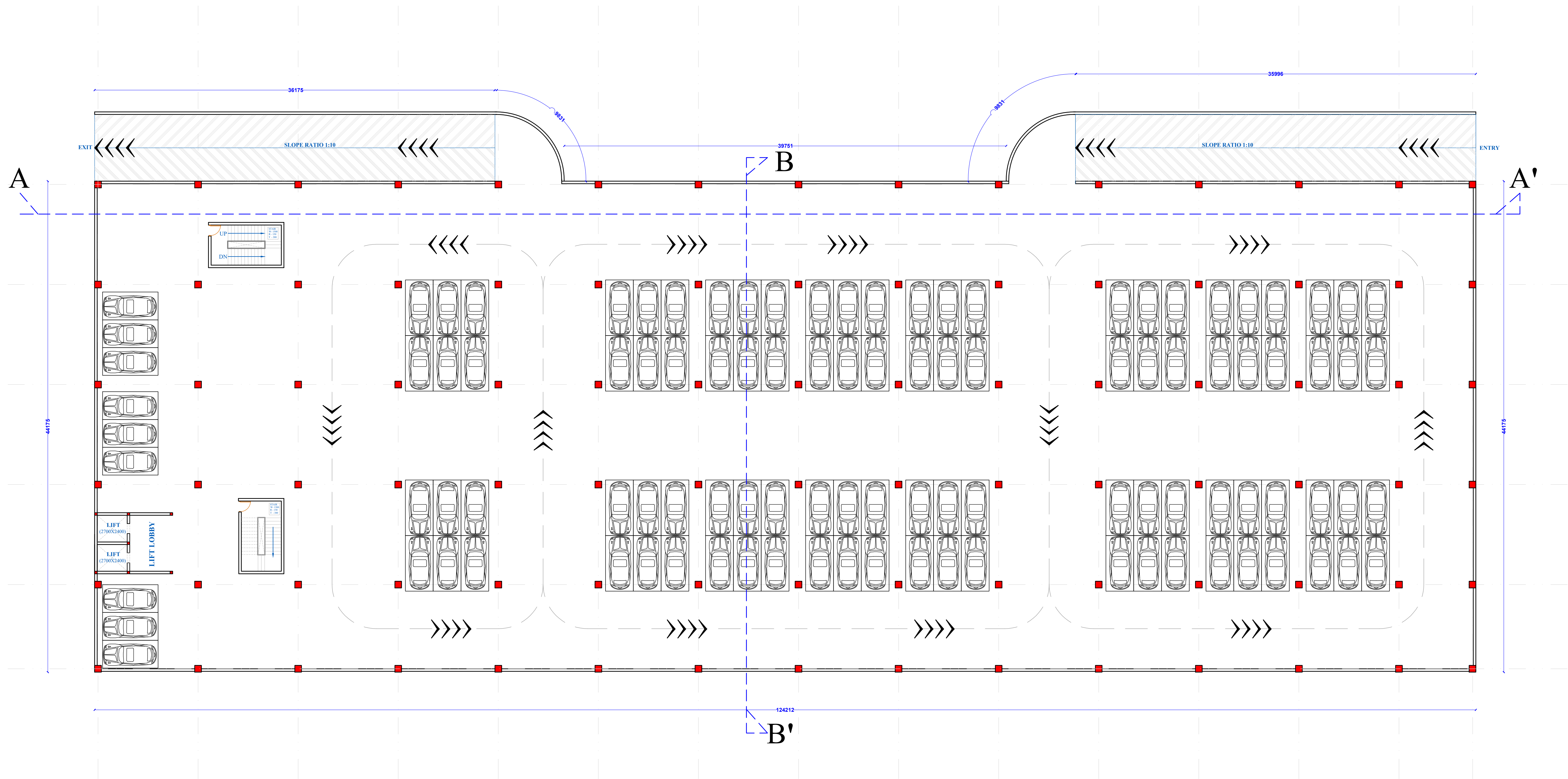


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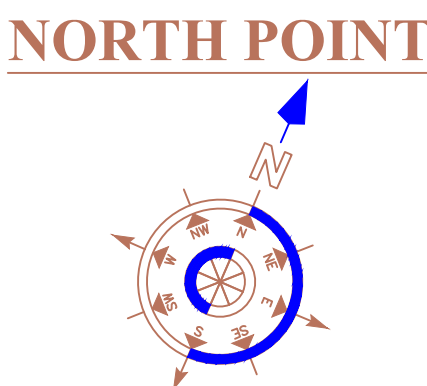


BASEMENT FLOOR PLAN (5577 SQ.M)

THESIS TOPIC :
**CONVENTION CENTRE AT
GORAKHPUR ,UP**

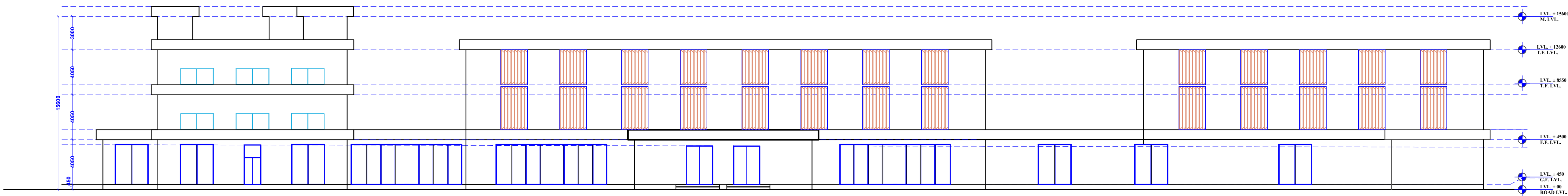
SHEET TITLE :
**BANQUET AND GUEST
HOUSE
(BASEMENT FLOOR PLAN)**

SCALE :
1:150

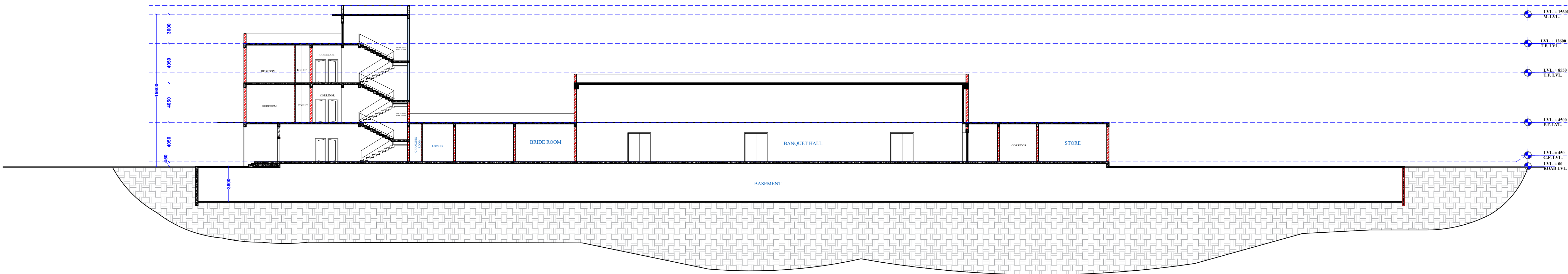


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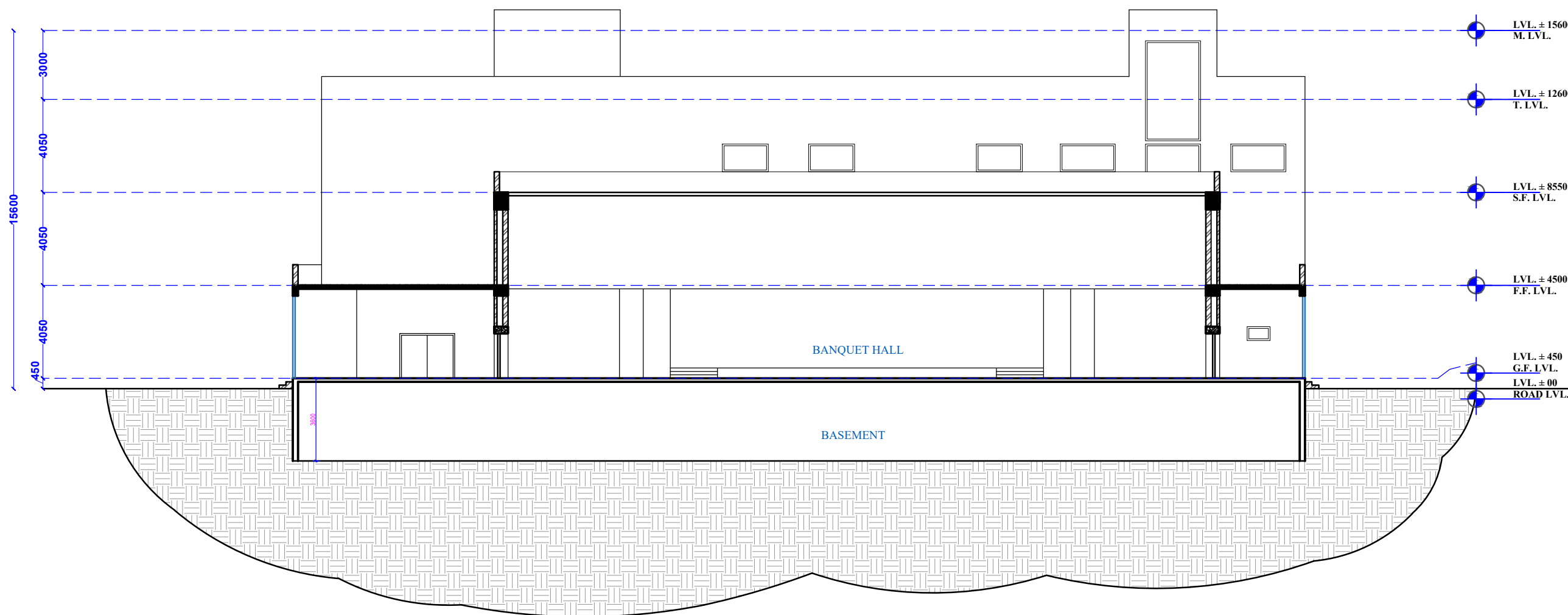
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FRONT ELEVATION



SECTION AT AA'



SECTION AT BB'

THESIS TOPIC :

CONVENTION CENTRE
AT GORAKHPUR, UP

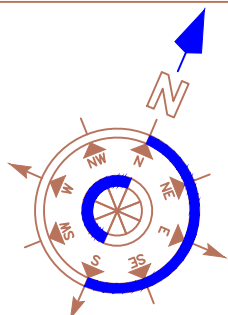
SHEET TITLE :

BANQUET AND GUEST
HOUSE
(ELEVATION / SECTION)

SCALE :

1:150

NORTH POINT



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THESIS TOPIC :
**CONVENTION CENTRE
AT GORAKHPUR, UP**

SHEET TITLE :
3D VIEWS

SCALE :
N.T.S

NORTH POINT

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ADMIN BLOCK



AUDITORIUM



BANQUET & GUEST HOUSE



THESIS TOPIC :

SHEET TITLE :

SCALE :

NORTH POINT

THESIS GUIDE :

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AT GORAKHPUR, UP

3D VIEWS

N.T.S

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