#### THESIS REPORT ON

#### "ART HERITAGE CENTER, AGRA"

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

#### BACHELOR OF ARCHITECTURE BY (MOHD. ADNAN) (1160101032)

#### THESIS GUIDE

#### (Ar.MOHIT SACHAN)

SESSION

2022-23



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"ART HERITAGE CENTER, AGRA" 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. Mohit Kumar Agarwal Dean of Department Prof. Sangeeta 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

- 1. Name : MOHD. ADNAN
- 2. Roll No. : 1160101032
- 3. Thesis Title : SARDAR BEANT SINGH MEMORIAL AND CENTER OF PERFORMING AND VISUAL ART'S
- 4. Degree for which the thesis is submitted: BACHELOR'S DEGREE OF ARCHITECTURE

5.	Faculty of University to which the thesis is submitted:	Yes / No
6.	Thesis preparation guide was referred to for preparing the thesis.	Yes / No
7.	Specification regarding thesis format have been closely followed.	Yes / No
8.	The content of the thesis have been organized based on the guidelines.	Yes / No
9.	The thesis has been prepared without resorting to plagiarism	Yes / No
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# **ACKNOWLEDGEMENT**

The completion of this thesis project has been one of the most significant academic challenges I have ever taken. I would like to acknowledge some people who have helped me throughout in accomplishing the Thesis Project.

At this moment of accomplishment, first of all I would like to thank my Thesis Guide, Ar. MOHIT SACHAN. 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.

Heartiest thanks to Ar. Mohit Agarwal Dean AND AR. SANGEETA SHARMA HOD, School of Architecture BBD UNIVERSITY, Lucknow for giving me the opportunity to do the thesis on this topic. Their constant guidance and support helped us to improve our work, with their suggestions and encouragement.

I would never have been able to finish my Thesis without the support of my mates SIDDHARTH, SAEED ,AZHER,HEMANT, ADRARSH , ADNAN, NAVEEN,EHTISHAM,TARA, or all the support through out this thesis.

> Regards MOHD. ADNAN 1160101032 9670002008 B. Arch. V Year.

# **DEDICATION**

This research endeavour is dedicated to my family who have graciously supported me all the way through this entire process. Without their motivation, support and sustained help, this effort would not have been achievable. I would like to dedicate this to my parents who laid the foundation by inculcating in me the principles, ethics and discipline that have served me well in all aspects of life.

I proffer a special thank you to each.

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# ART HERITAGE CENTER AGRA

(ini)

# INTRODUCTION

### What are Arts, Culture and Heritage?

Arts refers to individually or collectively created products of value, the expression or application of creative skill and imagination in the various branches of creative activity such as painting, sculpture, music, dance, theatre, films, graphic arts etc.

Culture refers to the cumulative deposit of knowledge, experience, beliefs, values, attitudes, meanings, hierarchies, religion, notions of time, roles, spatial relations, concepts of the universe, and material objects and possessions acquired by a group of people in the course of generations through individual and group striving. Heritage refers to valued property such as historic buildings, artwork, books and manuscripts and other artefacts that have been passed down from previous generations. They are of special value and are worthy of preservation.

**CONCEPT OF ART HERITAGE CENTRE ?** Heritage is the legacy of cultural resources and intangible attributes of a group or society that is inherited from past generations. The deliberate act of keeping cultural and heritage from the present for the future is known as preservation or conservation. The cultural and historical ethnic museums and cultural centers promote, though these terms may have more specific or technical meaning in the same contexts in the other dialect. Preserved heritage has become an anchor of the global tourism industry, a major contributor economic value to local communities

# INTRODUCTION

### **HISTORY OF AGRA ?**

The city itself was established well before the Mughals ever came to India. Agra has been mentioned as 'Agraban' in Vyasa's Sanskrit epic, Mahabharata. It is believed that Agra City was built by Badal Singh, in the year 1475. Sultan Sikandar Lodi made it his capital, during his reign of Delhi Sultanate.

It was they who transformed this city, adorning it with beautiful monuments and colourful gardens. The foundations for the modern city of Agra as we see it today, was laid by the Emperor Akbar. He had made the city a centre for art, culture, commerce and learning

TOURIST ATTRACTION ?
1. <u>TAJ MAHEL</u>
2. 2. <u>AGRA FORT</u>
AND MANY MORE\_

**DEMOGRAPHY OF CITY:-**

\_Agra 's 2021 population 2,261,561

\_TOURIST PER YEAR:- 7M

\_SEX RATIO:- 868/1000MEN

LITERACY RATE:- 71.58%

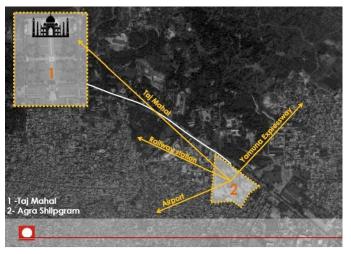
\_DENSITY :- 1084PER/ KM^2





GENERAL INTRODUCTION:-PROJECT :- ART HERITAGE CENTER CLIENT:- AGRA SMART CITY LTD. LOCATION:- SHILPGRAM AGRA UTTER PRADESH INDIA COORDINATES :- 27°09'56"N 78°03'08"E SHAPE:- IRREGULAR SHAPE AREA:- 46579.31 (11.51 ACRE)

### **SITE LOCATION:-**





9.5 Km from Agra Airport0.8 km from East Gate of Taj Mahal

- 4.7 km from Agra Fort railway Station
- 9.4 km from Yamuna Expressway

### LANDMARK :-

#### TAJ MAHAL ONE OF THE SEVEN WONDERS OF WORLD FOLLOWED BY AGRA FORT

### REACH TO THE SITE



#### <u>FROM AGRA FORT RAILWAY</u> <u>STATION TO THE SITE</u>



#### FROM ISBT AGRA TO THE SITE

### **PHYSIOGRAPHY :**

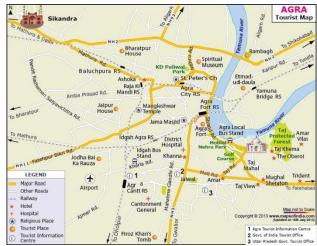
Agra is a city on the banks of the Yamuna river in the Agra district of the Indian state of Uttar Pradesh. It is 206 kilometres (128 mi) south of the national capital New Delhi. Agra is the fourth-most populous city in Uttar Pradesh and 24th in India. The region around Agra consists almost , entirely of a level plain, with hills in the extreme , southwest. The rivers in the region include Yamuna and Chambal. The region is also watered by the Agra Canal. Millet, barley, wheat and cotton are among the crops grown.Both Rabi and Kharif crops are cultivate



### **ROAD NETWORK:**

Agra is easily accessible from the main cities of India. Delhi is the major city that can be connected to Agra by bus, train, or airplane. While travelling in Agra, it will benefit tourists to carry a map of Agra with them to know more about the city and reach their destination quickly The National Highway No. 2, 3 and 11 run from Agra and help to connect to various cities in the country.





DIS. ROAD NET. <u>NA</u>

### NATIONAL ROAD NET.

### THINGS PROPOSED NEAR IT

 1.AGRA METRO
 2. CHATRAPATI SHIVAJI MUSEUM
 3. IT PARK
 4. LEELA PLACE HOTEL AND RESORT

METRO LINES

#### WATER:-

THERE IS NO WATER RESOURCE ON THE SITE THE ADA ALLOW TO DIG A WATER RESOURCE IN FROM OF BOREWELL SO THE SITE WATER REQUIREMENT WIL BE FULFIL BY THE BOREWELL

### **MEANS OF TRANSPORT:-**

IN THE THERE IS AUTO AND HORSE CART AND CAR AS TAXI AND PERSONAL CAR AND BIKES AND THERE IS PROPOSED METRO IN FUTURE ( WORK ALREADY STARTED )

### <u>HYDROLOGY :-</u>

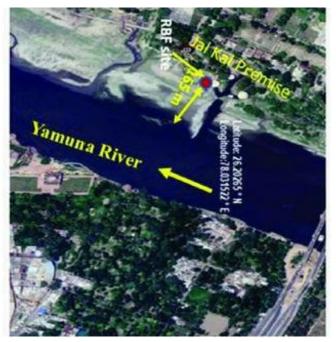
AGRA IS 169M ABOVE SEE LEVEL ON BANK OF YAMUNA GROUND WATER LEVEL IS AVERAGE FOUND IS 10.51M THERE IS REQUIREMENT OF WATER HARVESTING AS THINKING OF POPULATION GROWTH

### SLOPE :-

AGRA IS ON THE BANK OF YAMUNA RIVER WHICH FLOWS ON THE NORTH EAST SITE OF THE CITY SO THE SLOP IS CURVED TO THE NORTH EAST

### <u>SOIL:-</u>

The Agra series consists of very deep, moderately well drained soils that formed in material weathered from shale or clay, of Pennsylvanian age. These soils are on convex interfluves and side slopes of hillslopes on low hills in the Central Rolling Red Prairies (MLRA 80A). Slopes range from 1 to 5 percent



### **ON SITE CONDITION**

### **SLOPE ON THE SITE:-**

THE SITE HAVE THE SLOPE TOWARDS THE ROAD THERE IS PROPOSED DRAIN LINE ON BOTH SIDE OF ROAD THE ROAD IS ON NORTH EAST SIDE OF THE SITE IN DIRECTION OF YAMUNA RIVE

#### **VEGETATION:-**

<u>THERE IS THE TREE OF NEEM ,CHIRDH AND MANGO ON THE</u> <u>SITE , THE TREES WILL BE MOVED TO NATURE WALK NEAR TAJ</u> <u>MAHAL AS PER FOREST DEPARTMENT GUIDELINE .</u>

### ROAD:-

<u>THERE IS 4 LANE PASSING ALONG THE SITE . EACH SIDE IS 50FT</u> WIDE WITH 12 FEET PEDESTRIAN ON THE BOTH SIDE IT IS ON THE NORTH EAST SIDE OF THE PLOT



### PANORAMIC VIEW

#### <u>EXISTING STRUCTURE :-</u> <u>THERE IS NO EXISTING STRUCTURE ON THE SITE</u>

### TOPOGRAPHY :-

THE SITE HAVE MILD SLOPE TOWARD LAND. THE SITE HAVE MILD PITS IN LAND WHICH IS NOT AN ISSUE MOSTLY FLAT LAND WATER FLOW IS ON THE NORTH EAST SIDE OF THE ROAD **NEAR BY UTILITY :-**THERE ARE MANY HOTEL NEAR BY THE NIRMAN NIGAM OFICE IS

WITH IN 2KM AND TAJ IS NEAR IT WITH IN 2KM PROPOSED METRO STATION 800M AWAY RAILWAY STATION IS WITH IN 3KM

#### **ELECTRICITY :**

<u>THERE IS NO H.T.L. OR L.T.L ARE GOING ACROSS THE</u> <u>SITE</u>

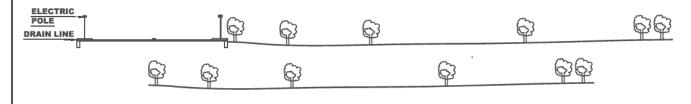
THE ELECTRICAL LINE ARE PASSING ALONG THE SIDE OF

THE FRONT SIDE OF PLOT.

#### **SEWER LINE :**

#### <u>SEWER LINE IS N.A. ON THE SITE</u> THE DRAIN LINE ARE UNDER CONSTRUCTION

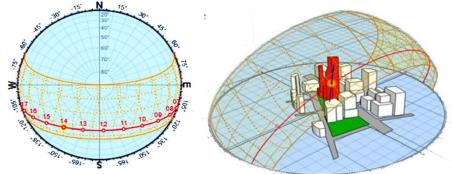
### **SECTION OF SITE :**



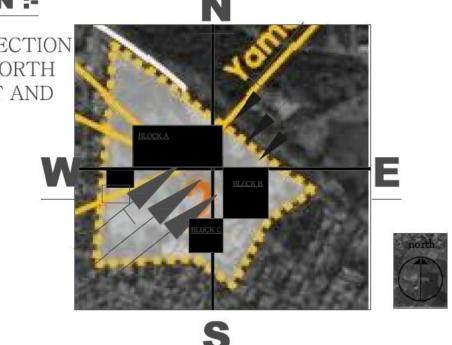
#### **CLIMATE :**

<u>The city features mild winters, hot and dry summers and a</u> <u>monsoon season. The Agra district, from its proximity to the</u> <u>sandy Thar desert to the west, is relatively dry, and has greater</u> <u>extremes of temperature than districts further east.</u>

#### SUN PATH DIAGRAM:-

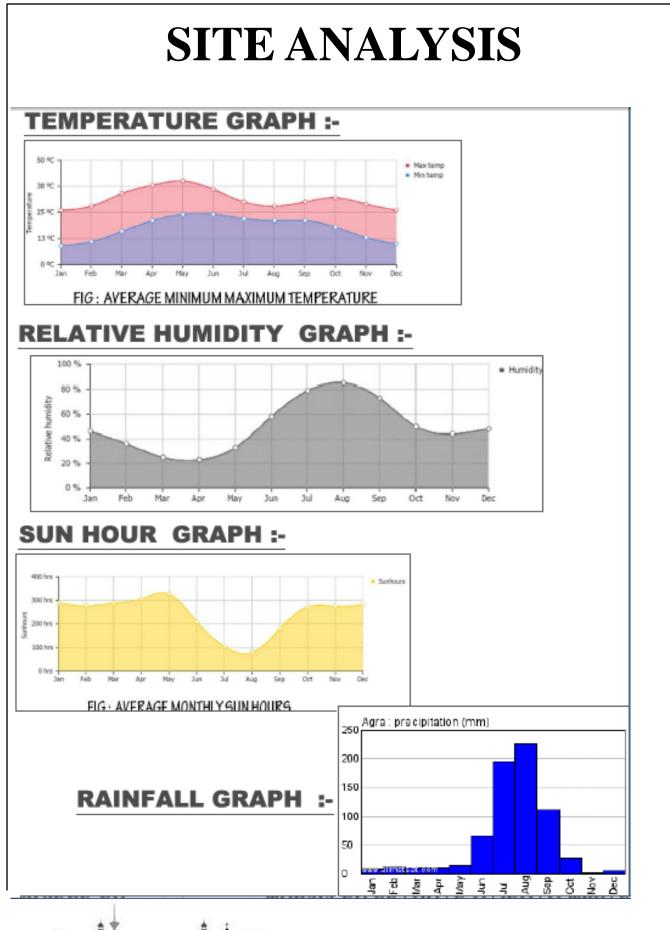


### WIND DIRECTION :-



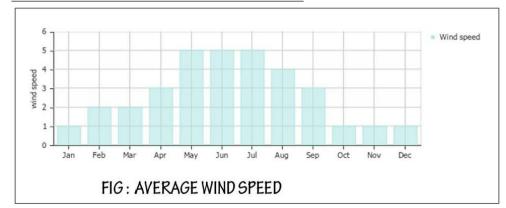
PREVAILING WIND DIRECTION IN SUMMER IS FROM NORTH EAST TO SOUTH WEST AND VISE VERSA

> SUMMER WIND WINTER WIND



المفتقينية والألفان والعراج

#### WIND SPEED GRAPH :-



### S.W.O.T. ANALYSIS :-

#### **STRENGHT :**

<u>Strengths of Agra Boasts of 48 ASI protected monuments,</u> <u>including two World Heritage sites the Taj Mahal – one of the</u> <u>Seven Wonders of the World – and the Agra Fort. Important</u> <u>node on the golden triangle tourist circuit</u>

#### **WEAKNESS** :

THE SITE ARE IS NOT DEVELOPED LIKE DRAIN LINE AND TREE PRESENT ON SIDE

#### **OPPORTUNITIES :**

DEVELOPING ART HERITAGE WILL ENHANCE THE HISTORY OF AGRA AND WILL INSPIRE ARTIST OF ALL WORLD

THREAT : DENSITY WILL BE AS HIGHER AS IT IS .

## 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}

### <u>THROUGH THE TRANSFORMATION , ADDING</u> 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**



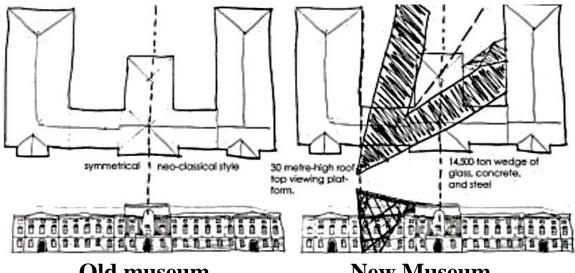
### **APPROACH**

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

#### **INFRENCE**

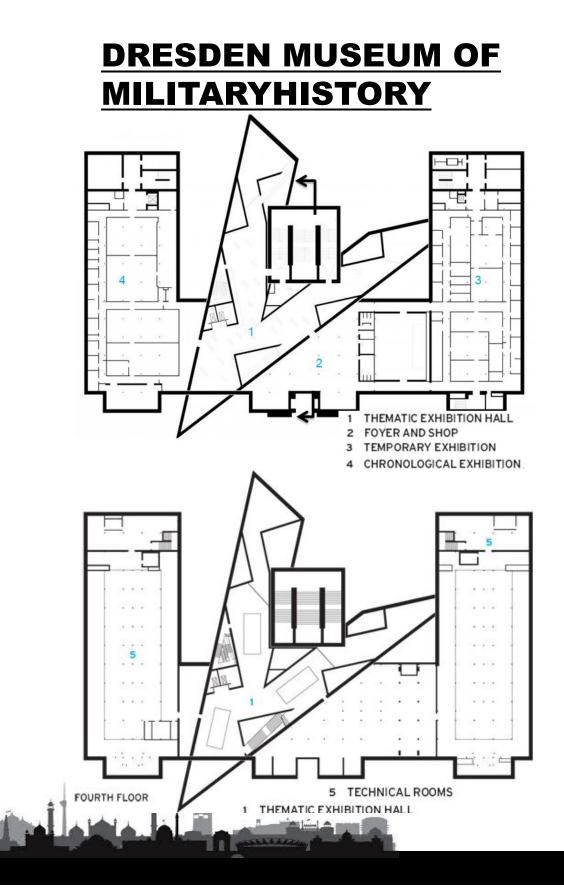
#### NEGATIVE

- 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



## **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 museum in 1836				

#### **Objective of study**

To learn about :

- Spaces of war museums
- Ways to portray 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**

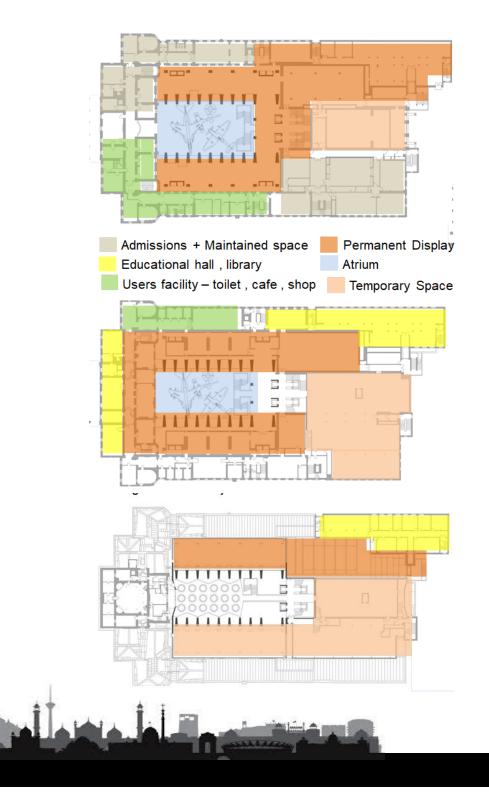
#### Positive

- 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

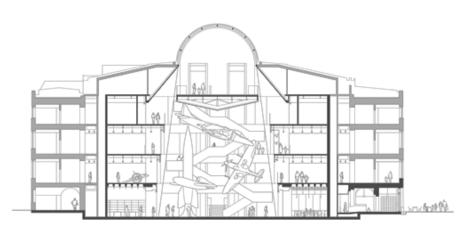
#### Negative

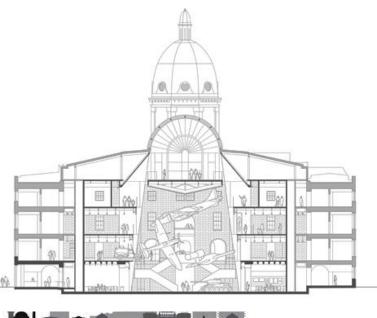
- The spaces are over crowded by exhibits different to group up everything
- Frightening for kids barrier could have been there

## LITERATURE STUDY 2 <u>IMPERIAL WAR MUSEUM</u> <u>LONDON</u>



## LITERATURE STUDY 2 <u>IMPERIAL WAR MUSEUM</u> <u>LONDON</u>





#### NATIONAL MUSEUM, NEW DELHI ARCHITECT - GWYER COMMITTEE



Location : Jan path , New Delhi Established Year : 1949 Site Area : 9.5 acre Exhibits : Art , Cultural and Heritage of India Woking Hours : 10AM-6PM

#### SITE SURROUNDINGS

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

#### NEAREST STOPS

**Central secretariat metro station** – 1.2 k.m.

**Indira gandhi international airport** – 14.5 k.m.

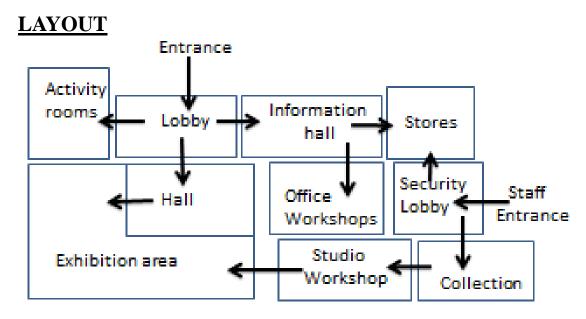
**New delhi railway station** – 3.8 k.m.

Nearest stops :- National Museum bus stop

#### APPROACH ROAD

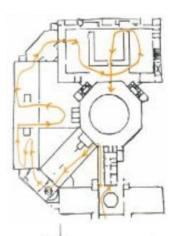
- Access to the museum is from main Maulana Azad road
- Inclined entry from right side of building
- Two main entries from main road one is Temporarily closed
- Separate entrance for VIP
- Store sculptures painting, Baggage Counter, Workshop, Vegetation, Water Body etc. are seen within site.

#### NATIONAL MUSEUM, NEW DELHI ARCHITECT - GWYER COMMITTEE



#### **CIRCULATION**

- Museum has radial circulation
- Visitor enter in exhibition area from gallery left hand side of token counter
- All exhibition hall is connected with each other with a centre circulation



#### **AUDITORIUM**

- 250 Seating capacity
- 190 seats on ground level
- 60 seats in balcony with projection room in between
- Balcony only used for V.I.P purpose
- Used for showing movies of art and culture
- Connecting with main enterence lobby
- Area : 340 mt sq

#### NATIONAL MUSEUM, NEW DELHI ARCHITECT - GWYER COMMITTEE

#### NEAREST STOPS

**Central secretariat metro station** – 1.2 k.m.

**Indira gandhi international airport** – 14.5 k.m.

**New delhi railway station** – 3.8 k.m.

Nearest stops :- National Museum bus stop

#### FORM AND FUNCTION

- The building seems to merge with the surrounding buildings as per DDA guidelines
- Building comprises of four stories with a basement
- Basic plan of the building is fan shaped with a circular courtyard in between surrounded by a covered veranda
- Wings are linked with the courtyard according to different requirement are need
- Building is made using high strength R.C.C and red sand stone

#### ENTERENCE LOBBY







Dome above hexagonal Centra lobby

Central art piece

Ticket Counter



Museum shops



#### NATIONAL MUSEUM, NEW DELHI ARCHITECT - GWYER COMMITTEE

#### **EXHIBITION**

- The museum has 200,000 works of art
- It also houses manuscripts, musical instrument, decorative art and textile, western art and armours
- Some of the galleries are
- Indus valley civilization
- Maurya art
- Gupta art
- Late medieval art

#### **LIGHTING**

- Artificial lighting is done in all the galleries with daylight exhibits kept to minimum
- Natural lighting is only used in centre
- In jewellery exhibition area the light is focused on the jewellery only



#### **PARKING**

- Proper parking facilities are not given
- Clock room is located near parking

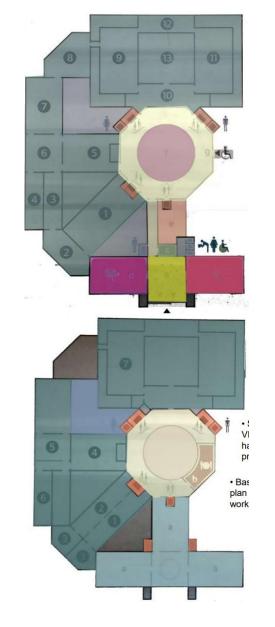
#### **LANDSCAPE**

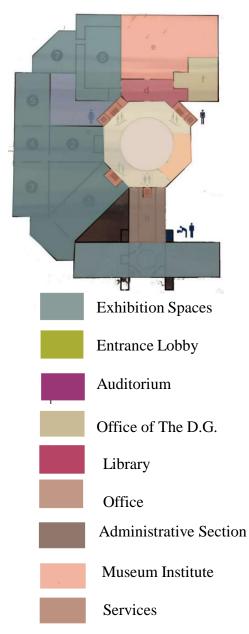
• Ashoka, Devdaru, Meeta, Neem, Tulsi, Neem, Plam tree



SERVICES

#### NATIONAL MUSEUM, NEW DELHI ARCHITECT - GWYER COMMITTEE





## CASE STUDY 2<u>:-dillihaat delhi</u> Architect - pradeep sachdeva

### **INTRODUCTION:**-

DILLI HAAT is a project of Delhi tourism and New Delhi municipal corporation. It provides an ambienceof a traditional village market for more contemporary needs. It provides a synthesis of craft, food ,and cultural activities.DILLI HAAT is not just a market place; it has been visualized as a showpiece of traditional Indian cultureaforum where rural life and folk art are brought closer to an urban business.These shops change hands every 15 days and therefore provide opportunity to the visitors with a different set of shops periodically and therefore motivates them to keep revisiting again and again .It provides encouragement to need artists and serves as an outlet centre for them .A small food court which brings a variety of cuisines of different states together.

### LOCATION AND ACESSIBILITY:-

NEAREST BUS STOP-INA

LOCATION - Kidwai Nagar, opposite INA market, NEW DELHI. DATE OF COMPLETION-DECEMBER, 1993 **CLIENT- DELHI TOURISM &** MUNICIPAL CORPORATION OF DELHL ARCHITECT- PRADEEP SACHDEVA. DESIGN ASSOCIATES, NEW DELHI. SITE AREA- 6 ACRES, APPROX. 100M x 300M BUILT UP AREA- 3190 SQ M SITE DIM.-100 x 300 M **GROUND COVERAGE - 12%** NEAREST METRO STATION-INA



Dilli Haat: Location Map



## CASE STUDY 2:-DILLIHAAT DELHI ARCHITECT - PRADEEP SACHDEVA FEATURES:-

 an entrance plaza, raised to block vehicular access and bring a new spatial identity for pedestrian

circulation and ticketing services for entry to Dilli Haat.

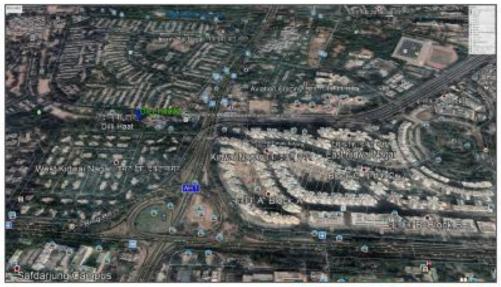
 It is followed by a linear spine of movement flanked by stalls on both sides in cluster patterns

showcasing the local and the regional crafts of India.

 Space syntax tools have been used to study the interaction between the spatial configuration and

public movement in this spatial typology in an urban context.

### SITE SURROUNDINGS



#### NEAREST STOPS:-

200M.

Indira gandhi international airport – 14.5 k.m.

New delhi railway station - 3.8 k.m.

Nearest stops :-AIMS HOSPITAL

#### **PPROACH ROAD :-**

 Access to the Site is from main Maulana Azad road

 SHRI AUROBINDO ROAD Two main entries from main road – one is Temporarily closed

- Separate entrance for VIP
- Store sculptures painting ,

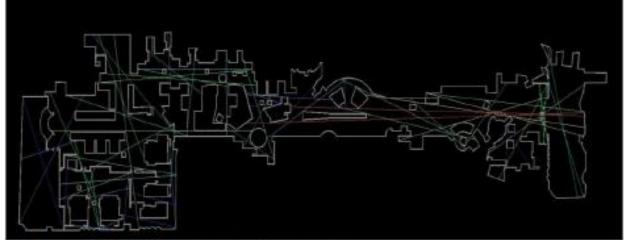
Baggage Counter, Workshop, Vegetation, Water Body etc. are seen within site.

# **CASE STUDY 2:-**DILLIHAAT DELHI ARCHITECT - PRADEEP SACHDEVA

#### APPROACH SITE :-



### Axial Map Analysis Showing The Measure Connectivity :-

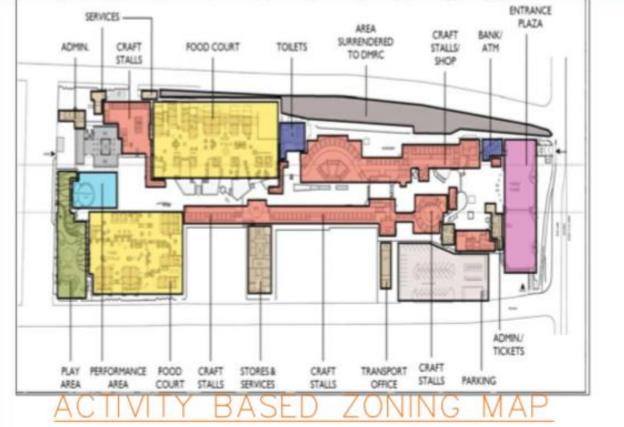


### ZOINING OF DILLI HAAT :-GEOMETRY:-

. The site is polygon with 4 sides



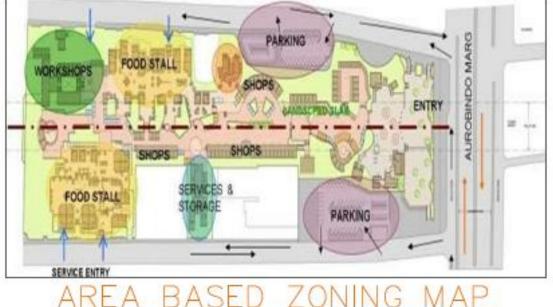
## CASE STUDY 2:-DILLIHAAT DELHI ARCHITECT - PRADEEP SACHDEVA



#### ENTRY/EXITS:-

- The site has 2 main entries and exits
- Gate number 1 is approx 10m wide with one pedestrian entry with security check point, other 2 for
- special occasion entrance .Vehicular entry is prohibited
- Approx 3 m wide space is used for theme display at the entrance.
- · Has only one exit 1.2 m wide.
- Gate number 2 is approx 7m wide. Consist of one pedestrian entry 1.2 m wide and vehicular entry 4 m wide.
- Used as service gate.
- Consist of ticket counter 3m wide.
- Attached with a courtyard and administration block of app.10mx3m.
- · Gives a direct passage to the stage.

## CASE STUDY 2:-DILLIHAAT DELHI ARCHITECT - PRADEEP SACHDEVA



### PARKING :-

consist of 2 parking
 around 90 car parking –visitors and
 around 150 two wheeler parking
 ONE AT THE FRONT
 AND OTHER AT THE BACK SIDE

### SECUIRTY :-

- Security check in of 2mx2m at the entrance.
- Cctv placed at various locations.

Guards at every entrance.
 CCTV 35 UNIT
 30 GUARD SECURITY
 GAURD
 ON 24 \* 7

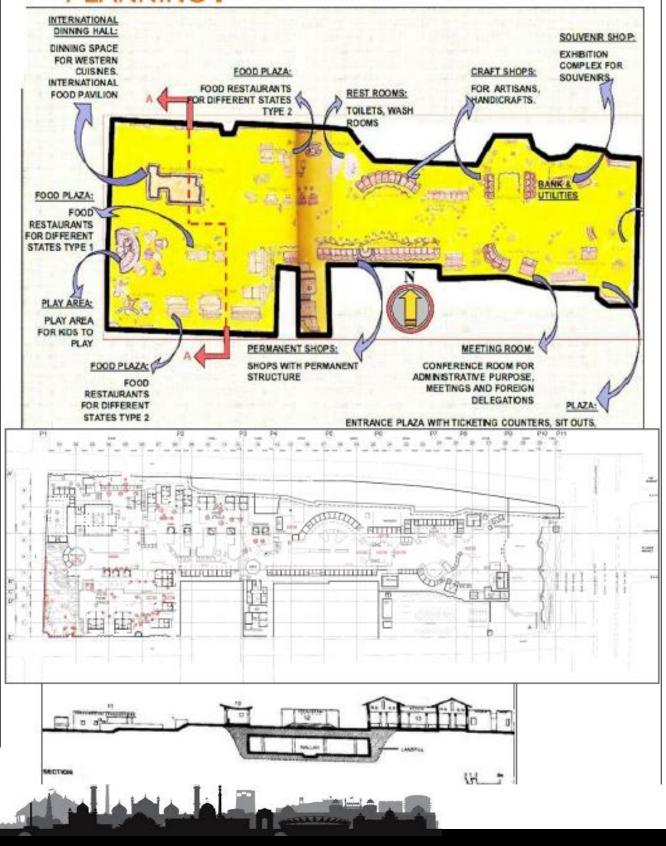






# CASE STUDY 2:-DILLIHAAT DELHI ARCHITECT - PRADEEP SACHDEVA

#### PLANNING :-



# CASE STUDY 2<u>:-dillihaat delhi</u> architect - pradeep sachdeva

## CIRCULATION:-

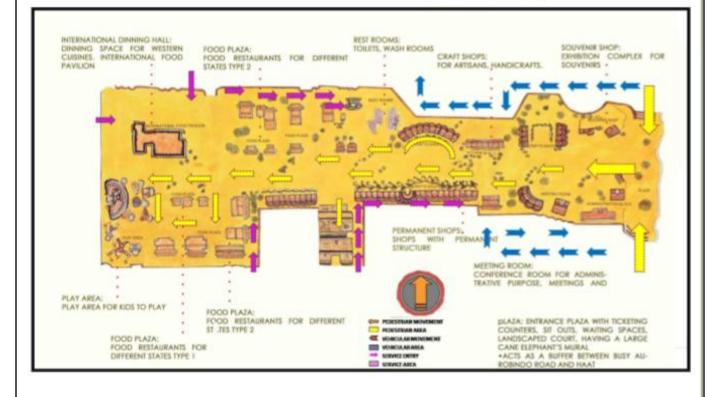
• From the entrance to the end of the complex , the circulation is entirely pedestrian.

• By the use of ramps and steps , lots of levels have been created to define buildings more distinctly.

Circulation in front of shops is through a verandah covered arcade 1.5 m wide.

 The spaces also get varied character becau the plaza changes character from a large entrance plaza to an oblong open space.

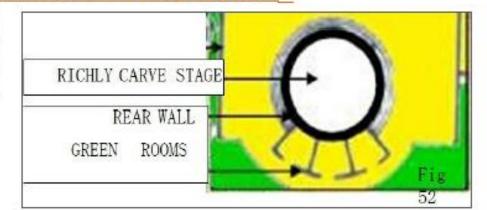
 2 Service entrance has been provided on the periphery.



RAMP



## CASE STUDY 2:-DILLIHAAT DELHI ARCHITECT - PRADEEP SACHDEVA OPEN AIR THEATRE:-



 The oat doesn't consist of permanent seating space whereas an open space is provided for seating purpose.

 Stage is circular in shape of app.5-6m dia.

 Consist of 3 green rooms at the back of

2x2.5m app.

#### **MEETING ROOM :-**

Consist of a meeting room for foreign delegates as well as internal administration dept.
Size app. Of 3mx7m.
Used for events discussions and for vip waiting area



# CASE STUDY 2<u>:-dillihaat delhi</u> Architect - pradeep sachdeva

## PLAN OF LIGHT FIXTURE :-

RED DOT SHOWS THE STREET LIGHT



## CRITICAL ANALYSIS

- Green space is provided at relevant spaces.
- · Consist of many negative spaces which are a place of dust collection.
- · Unauthorised stalls have been setup.
- · The spine concept is used very efficiently.
- Location of drinking water is not appropriate i.e. near to the washrooms.
- · Number of ramps to reach different level are less are at far distances.
- · Not all service entries are used.
- The placement system of stalls is convincing.
- . the decorations enhance the beauty of the place.
- An entrance plaza, raised to block vehicular access and bring a new spatial identity for pedestrian

circulation is a very special feature.

- · Every kitchen has its own gas and water supply.
- · Every food stall has different style of seating and shade.
- The paved area seems monotonous which can be improved.
- · Temporary stalls structure can be improvised.
- · Services are not maintained properly.



# CONCEPT STAGE CONCEPT: FUSION STYLE

#### WHAT IS FUSION STYLE :-

FUSION STYLE THAT COMBINES CULTURE, TECHNOLOGY, STYLE, SHAPE AND EVEN THE TIME, MADE "MEMORY" WHICH SHOULD EXIST IN HIS TIME, APPEARS TO BE A MODERN CIVILIZATION / NO TIME. FUSION STYLE OFFERS EVERYTHING, AND NO RULES THAT LIMIT OR HORSE'S BIT. CREATIVITY MOVE FREELY, LIKE THERE'S A "THE SKY IS THE LIMIT OF CREATIVITY". FOR EXAMPLE, AT PRESENT, IS A COMMON THING TO COMBINE MODERN ELEMENTS WITH CLASSIC ELEMENTS, AND EVEN BECOME A NECESSITY AND AN OBLIGATION IN A FUSION STYLE, DUE TO 'LIFE', OR 'SOUL' OR 'SPIRIT' IN THE DESIGN ITSELF.

#### MIXING MUGHAL WITH NEW STYLE:

MIX OLD STYLE WITH NEW STYLE, GOOD 'CLASS' WITH ITEM 'FLEA MARKET', CERTAINLY NOT GOING TO BE FIT, BUT IT WILL BE INTERESTING. COMMERCIAL VALUE IN FUSION STYLE WILL PRESENT ITSELF AS A COMPARISON, SOMETIMES EVEN THIS VALUE IS NO LONGER THE IMPORTANT THING BECAUSE IT WAS MELTED ON A NEW MEANING, THAT IS BEAUTY. VERY SUITABLE GUIDELINES ARE "NICE AND AFFORDABLE"

#### WHY FUSION STYLE :-

THE SKYLINE OF THE AGRA IS CONSTRUCTED IN THE MUGHAL ARCHITECTURE SO THE GLIMPSE OF HERITAGE SHOULD MANIFEST IN THE CENTER THE PROCESS OF CREATING THE WORLD OF ARCHITECTURE AND INTERIOR IS SOMETHING TO CONSIDER VALUE FOR MONEY, AND BECOMES A THING THAT FITS PERFECTLY IN THIS STYLE, BECAUSE FREEDOM IS NOT UNLIMITED. THE POINT IS HARMONY IN TASTE.

### **MUGAL ARCHITECTURE :-**

MUGHAL ARCHITECTURE IS THE TYPE OF INDO-ISLAMIC ARCHITECTURE DEVELOPED BY THE MUGHALS IN THE 16TH, 17TH AND 18TH CENTURIES THROUGHOUT THE EVER-CHANGING EXTENT OF THEIR EMPIRE IN THE INDIAN SUBCONTINENT.

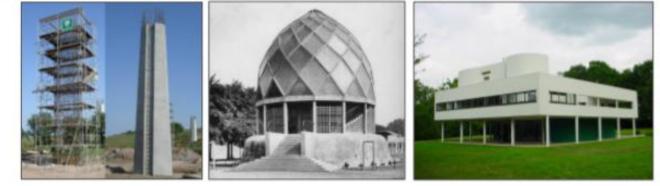
MUGHAL ARCHITECTURE IS THE TYPE OF INDO-ISLAMIC ARCHITECTURE DEVELOPED BY THE MUGHALS IN THE 16TH, 17TH AND 18TH CENTURIES THROUGHOUT THE EVER-CHANGING EXTENT OF THEIR EMPIRE IN THE INDIAN SUBCONTINENT.





#### **MODERN ARCHITECTURE :-**

MODERN ARCHITECTURE, OR MODERNIST ARCHITECTURE, WAS AN ARCHITECTURAL STYLE BASED UPON NEW AND INNOVATIVE TECHNOLOGIES OF CONSTRUCTION, PARTICULARLY THE USE OF GLASS, STEEL, AND REINFORCED CONCRETE; THE IDEA THAT FORM SHOULD FOLLOW FUNCTION (FUNCTIONALISM); AN EMBRACE OF MINIMALISM; AND A REJECTION OF ORNAMENT.THE REVOLUTION IN MATERIALS CAME FIRST, WITH THE USE OF CAST IRON, DRYWALL PLATE GLASS, AND REINFORCED CONCRETE, TO BUILD STRUCTURES THAT WERE STRONGER, LIGHTER AND TALLER.





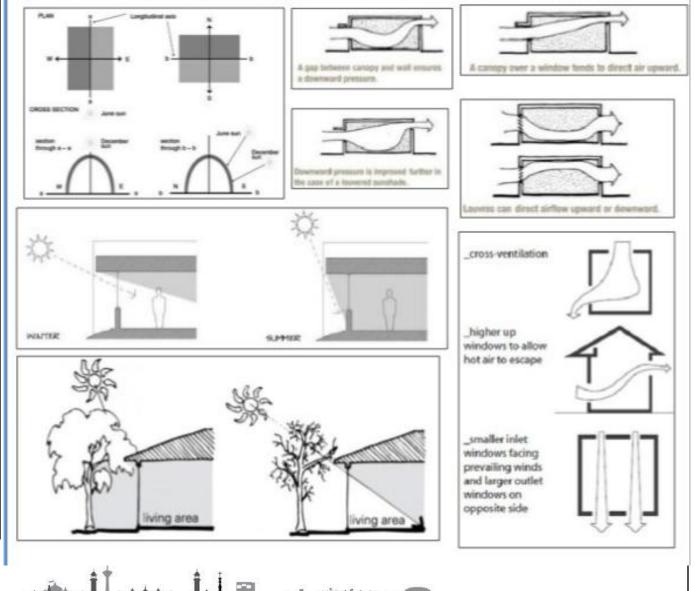


## **BUILDING ORIENTATION :-**

ORIENT THE BUILDING WITH LONGER AXIS IN THE EAST-WEST DIRECTION. THE BUILDING WITH GLAZED CURTAIN WALL FACING NORTHWEST SHOWS A SUBSTANTIAL REDUCTION IN LOAD COMPARED TO SOUTHWEST ORIENTATION.

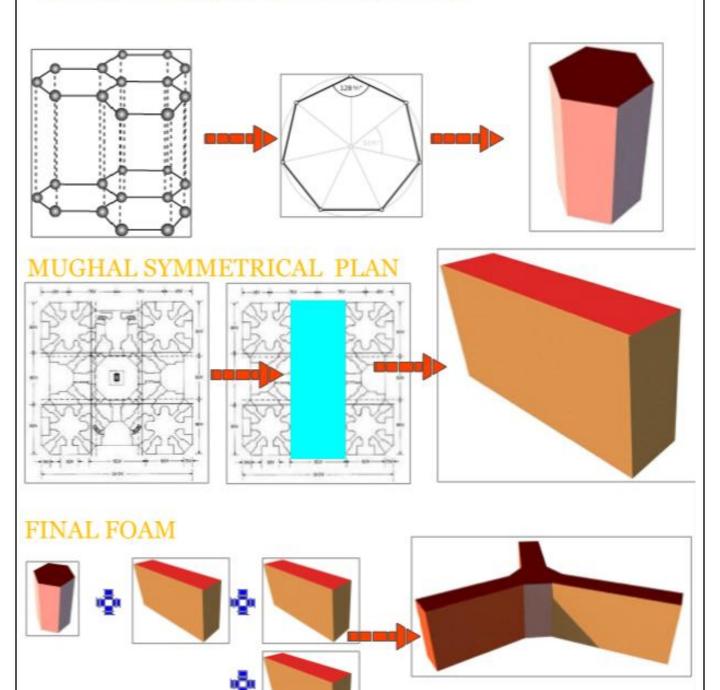
SOUTH ORIENTATION RECEIVES MAXIMUM SOLAR RADIATION DURING WINTERS WHICH IS PREFERABLE AS COMPOSITE CLIMATE RECEIVES SEVERE WINTERS. EAST WEST RECEIVE MAXIMUM SOLAR RADIATION DURING SUMMER AND VICE VERSA.

THUS, ATTENTION NEED TO BE PAID WHILE DESIGNING WEST FACADE AND SPACES BEHIND WEST FACADE. SHADING OF ROOF THROUGH DESIGN FEATURES LIKE PERGOLAS WILL HELP IN CREATING SHADE POCKETS.



#### FOAM EVOLUTION:-

#### GRAPHITE CHEMICAL STRUCTURE





10. ENTRY 7.TICKET COUNTER 8.GAURD ROOM 11.PARKING 12. PARKING **1ENTRANCE LOBBY** 2.MUSEUM 3. EXHIBITION 9.CAFETARIA 4.ART GALLERY **5**.AUDITORIUM 13. HOSPITALITY 6. LIGHT AND SOUND SHOW 14. WATER BODIES 15 WORKSHOP

#### WALL OF HERITAGE :-FOR THE LIGHT AND SOUND SHOW

FRESCO (PLURAL FRESCOS OR FRESCOES) IS A TECHNIQUE OF MURAL PAINTING EXECUTED UPON FRESHLY LAID ("WET") LIME PLASTER. WATER IS USED AS THE VEHICLE FOR THE DRY-POWDER PIGMENT TO MERGE WITH THE PLASTER, AND WITH THE SETTING OF THE PLASTER, THE PAINTING BECOMES AN INTEGRAT PART OF THE WALL.

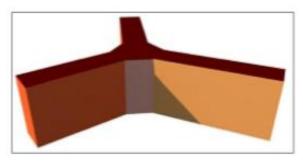




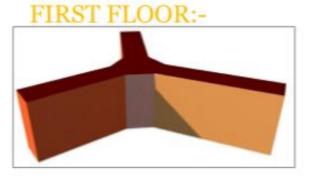


#### VERTICAL STACKING :-

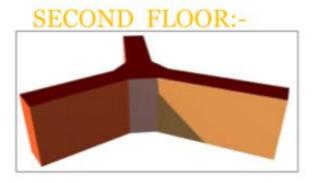
#### GROUND FLOOR:-



THIS FLOOR CONSIST OF:-# ENTRANCE LOBBY #MUSEUM #EXHIBITION #ART GALLERY #WORKSHOP

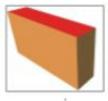


THIS FLOOR CONSIST OF:-# FAME GALLERY #MUSEUM #EXHIBITION #ART GALLERY



THIS FLOOR CONSIST OF:-# FAME GALLERY #MUSEUM #AUDITORIUM #CAFETERIA # ADMIN ARRANGEMENT

HOSPITALITY GROUND FLOOR:-

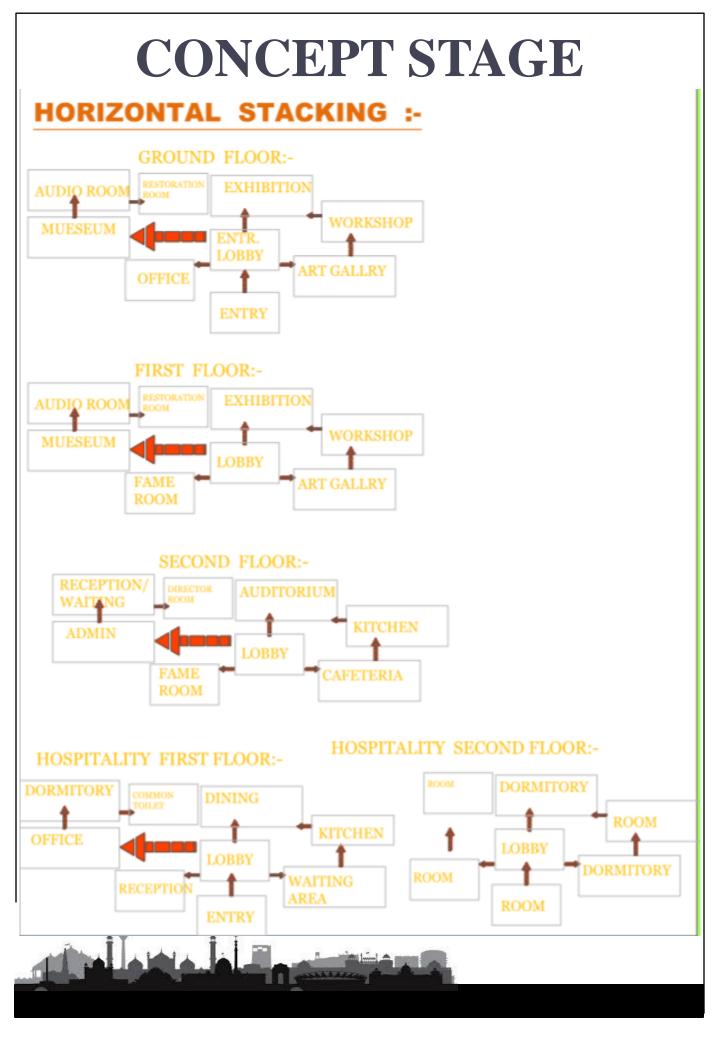


IT CONSIST OF :-# WAITING AND RECEPTION #DINING AREA AND KITCHEN #OFFICE #COMMON TOILET

#### HOSPITALITY FIRST FLOOR:-



IT CONSIST OF :-#ROOM # DORMITORY



#### ELEMENT FUSING :-



JALI





IWAN



**MODEL AFTER** 

MIXING ELEMENT OF

**MUGHAL ARCHITECTURE** 



# INTERIOR



## **BUILDING BY LAW :-**

2.5 sq.m. per person	n
ed seating auditorium on; Meeting room for q.m. and 2.25 sq.m. p	r 75 and 8
alleries; 5761 sq.m.	
e @4sq.m. per perse	on
sq.m. per person	
@10 sq.m. per perso	
10 sq.m. per person ;	; research
1917.5 sq.m.	

(ख) नए/अविकसित क्षेत्र (क) निर्मित / विकसित क्षेत्र

सामुदायिक एव संस्थागत सुविधाए

मू–आच्छादन (प्रतिशत)

एफ.ए.आर.

9.0 8.0 70

8

1.50

24 से 27 तक 21 से 24 तक

• सामुदायिक कन्द्र, वारातघर एव

\$

150

• अन्य संस्थागत

8

200

धार्मिक भवन

	4.	₩.	भ
	1000 से अधिक	(वर्ग मीटर)	भूखण्ड का क्षेत्रफल
4.2 औद्योगिक	4.1 आवासीय∕युप हाउसिंग, व्यवसायिक, कार्यालय, सामुदायिक सुविधाएं एवं अन्य बहुमंजिले भवन		मू–उपयोग की प्रकृति
अनुमन्य भू–आच्छादन के बराबर, परन्तु 50 प्रतिशत की गणना एफ.ए.आर. में होगी।	1000-2000 वर्ग मीटर क्षेत्रफल तक के मूखण्डों में डबल बेसमेन्ट, 2000-10,000 तक 4 बेसमेन्ट तथा 10,000 वर्ग मीटर से अधिक में कोई प्रतिबन्ध नहीं।		बेसमेन्ट के प्राविधान

विभिन्न
उपयोगों/
'अधिमोगों
10
वनों
91-
न्ने
पार्किंग
व्यवस्था
9
मानक
निम्नानुसार
होंगे :

÷

मवन की ऊँचाई (मीटर)

चारों ओर छोड़े जाने वाला सैट

---

बैक (मीटर)

5,0 6.0

12.50 से 15 तक

15 से 18 तक 18 से 21 तक

12.50 मीटर से अधिक ऊँचाई के भवनों हेतु सैट-बैंक निम्नवत् होंगे:--

	7. (毎) (個)	क्र.सं.
	क) सामुदायिक भवन, कान्फ्रेन्स हाल, बारातघर, उत्सव भवन ख) अस्पताल, नर्सिंग होम	उपयोग
And the second second of the second second	प्रति 100 व.मी. तल क्षेत्रफल पर 2.0 प्रति 100 व.मी. तल क्षेत्रफल पर 1.5	समान कार स्थल की संख्या

# 3.10 वाहनों को खड़े करने के स्थान (पार्किंग)

पार्किंग की प्रकृति के आधार पर प्रत्येक 'समान कार रचल' के लिए सर्कुलेशन एरिया सहित निम्न मानक होगा :--

	(ग) बेसमेन्ट में पार्किंग :	(ख) कवर्ड पार्किंग :	(क) खुले क्षेत्र में पार्किंग :
: 16 वर्ग मीटर	: 32 वर्ग मीटर	: 28 वर्ग मीटर	: 23 वर्ग मीटर

0 Assembly buildings-The open space at front than 6 m. spaces around the building shall be not less shall be not less than 12 m and the other open

than 12 m. spaces around the building shall be not less permitted in purely residential zones, the open NOTE - However, if assembly buildings are

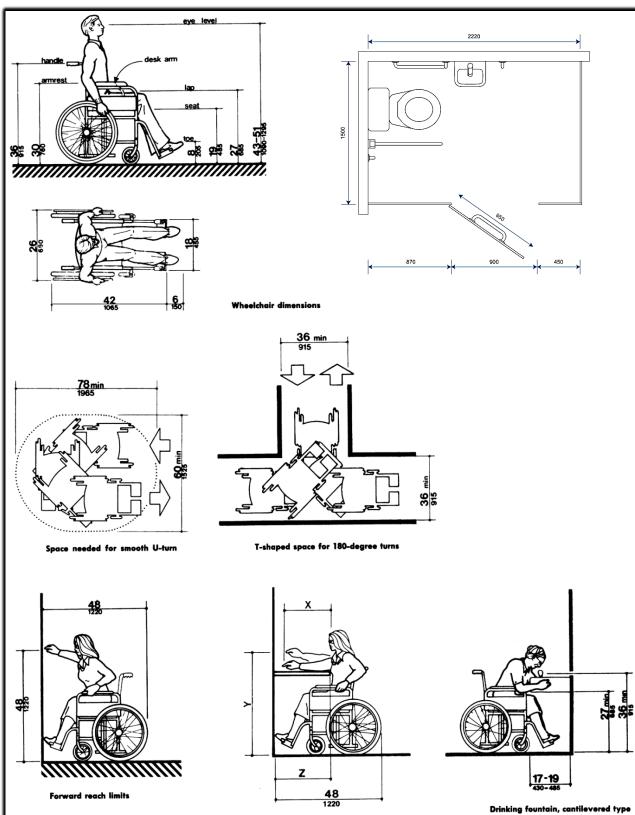
From case study		450	450	1			275	275	1	STORAGE
From case study		300	300	1			1200	1200	1	CONSERVATION
From case study		15	15	1			15	15	1	WORKSHOP MANAGER
From case study		300	300	1			250	125	2	WORKSHOP
From case study		1065					1740			LABORATORIES
From case study										
From case study		500	500	1			350	350	1	EXHIBITION STORE
From case study		200	200	1			150	150	1	RESERVE COLLECTION
From case study		200	200	1			100	100	1	RECORD ROOM
From case study		100	100	1	HANDICAPPED		80	80	1	DOCUMENTATION
		1000			(FEMALE) WASHBASIN 1/25,		680			STORE
NBC		ъ	5	1	1/15 PERSON					
From case study		40	20	2	2-URINAL/21-45P WC- 1/25		60	30	2	TOILET
Neufert	50	150	150	1	3SQM/ PERSON	50	150	150	1	CONFERENCE
Neufert	5	40	40	1	8 SQM/ PERSON	5	40	40	1	FINANCE OFFICE
Neufert	10	100	100	1	10 SQM/ PERSON	10	50	50	1	STAFF ROOM
From case study	25	50	50	1	0.8 SQM/ PERSON	25	50	50	1	ENTRANCE /WAITING AREA
From case study	2	60	30	2		1	30	30	1	TRANSLATOR
From case study	1	30	30	1		1	30	30	1	EDUCATION PROGR- AM COORDINATOR
From case study	4	120	30	4	15 -20SQ/M	4	120	30	4	ASST. CURATOR
From case study	3	120	40	٤	15 -20SQ/M	3	120	40	ε	CURATOR
From case study	1	30	30	1	15 -20SQ/M	1	30	30	1	ASST. DIRECTOR'S ROOM
From case study	1	40	40	1		1	40	40	1	DIRECTOR'S ROOM
		785					720			ADMINISTRATION
REFRENCES	OCCUPANCY (PERSON)	PROPOS-ED AREA (SQ.M	AREA (SQ.M	UNITS	AREA IN METER / PERSON	OCCUPANC Y (PERSON	TOTAL AREA (SQ.M)	AREA (SQ.M)	UNITS	SPACE REQUIREMENT
	HI	NATIONAL WAR MUSEUM DELHI (FINAL AREAS)	ONAL WA	NATI	STANDARDS		<b>UM DELHI</b> (TUDY-1)	NATIONAL MUSEUM DELHI (CASE STUDY-1)	NATI	

										 	· · ·	
TOILET	AUDIO- VISUAL ROOM			TOILET	RECEPTION	SECURITY	ENTRANCE LOBBY	CLOAK ROOM	TICKET COUNTER	ENTRANCE	SPACE REQUIREMENT	
				2	1	1	1	1	1		UNITS	NATIO
				15	12	12	250	09	18		AREA (SQ.M	(CASE)
				30	12	12	250	60	18	412	total area (sq.m)	NATIONAL MUSEUM DELHI (CASE STUDY-1)
					2	2	200	2	з		OCCUPA- NCY (PERSON	_
	2.4 SQM/PERSON	PHYSICAL HANDICAPPED	1/250 PERSON (MALE) 1/150 PERSON (FEMALE) WASHBASIN	FOR PUBLIC 1-URINAL/50 PPL WC-	5 SQM/ PERSON		1.2SQM/ PERSON				AREA IN METER / PERSON	STANDARDS
2	1		1	2	1	1	1	1	1		UNITS	NATI
51	60		5	25	12	100	350	100	30		AREA UNITS (SQ.M)	ONAL WAR
05	60		N	50	12	100	350	100	30	647	TOTAL AREA (SQ.M	NATIONAL WAR MUSEUM DELHI (FINAL AREAS)
	25				12	12	325	2	з		OCCUPANCY (PERSON)	DELHI
	STANDARD		NBC	From case study	From case study	From case study	From case study	From case study	From case study		REFRENCES	

SURVEILLANCE ROOM	GENERATOR ROOM	ELECTRICAL ROOM	TRANSFORMER	AHU	SERVICES		TOILET	KITCHEN & STORE	DINNING HALL	CAFETARIA	GUEST LOUNGE	SERVICE ROOM	TOILETS	PROJECTOR ROOM	GREEN ROOM	STAGE	SEATING	AUDITORIUM	SPACE REQUIREMENT	
								1	1					1	1	1	1		UNITS	NATIO
														20	30	100	300		AReA (SQ.M	NATIONAL MUSEUM DELHI (CASE STUDY-1)
15	20	20	20	30	150			90	170	300				20	30	100	3000	450	TOTAL AREA (SQ.M)	L MUSEUM DELH (CASE STUDY-1)
														1	3		250		OCCUPA- NCY (PERSON	Ħ
						1WB/1WC	MALE WC 1/50 URINALS 1/50 FEMALE WC 2/50	40% AREA OF DINING	1.8- SQM / PERSON		1-URINAL/50 PPL'1 FOR PHYSICAL HANDICAPPED	200)	(2-wc 50-200 more 200 add 1 -	1-wc 100-400 more 400 add 1 for 250 p	4.5 SQ.M / PER	SIAGE, 2018 FOTEN	1.5 SQM/ PERSON +30% FOR		AREA IN METER / PERSON	STANDARDS
							2	1	1		ы	1	2	1	2	1	1		UNITS	NATION
							15	180	450		30	20	15	20	12	86	325		AREA (SQ.M	IAL WAR (FIN
30	40	50	50	150	320		30	180	450	660	90	20	30	20	24	86	325	610	total area (sq.m)	NATIONAL WAR MUSEUM DELHI (FINAL AREAS)
									300					1	24		180		OCCUPNY (PERSON)	- -
From case study	From case study	From case study	From case study	From case study	From case study		NBC	Neufert	Neufert		From case study	From case study	Neufert , NBC	From case study	Neufert	Neufert	Neufert			

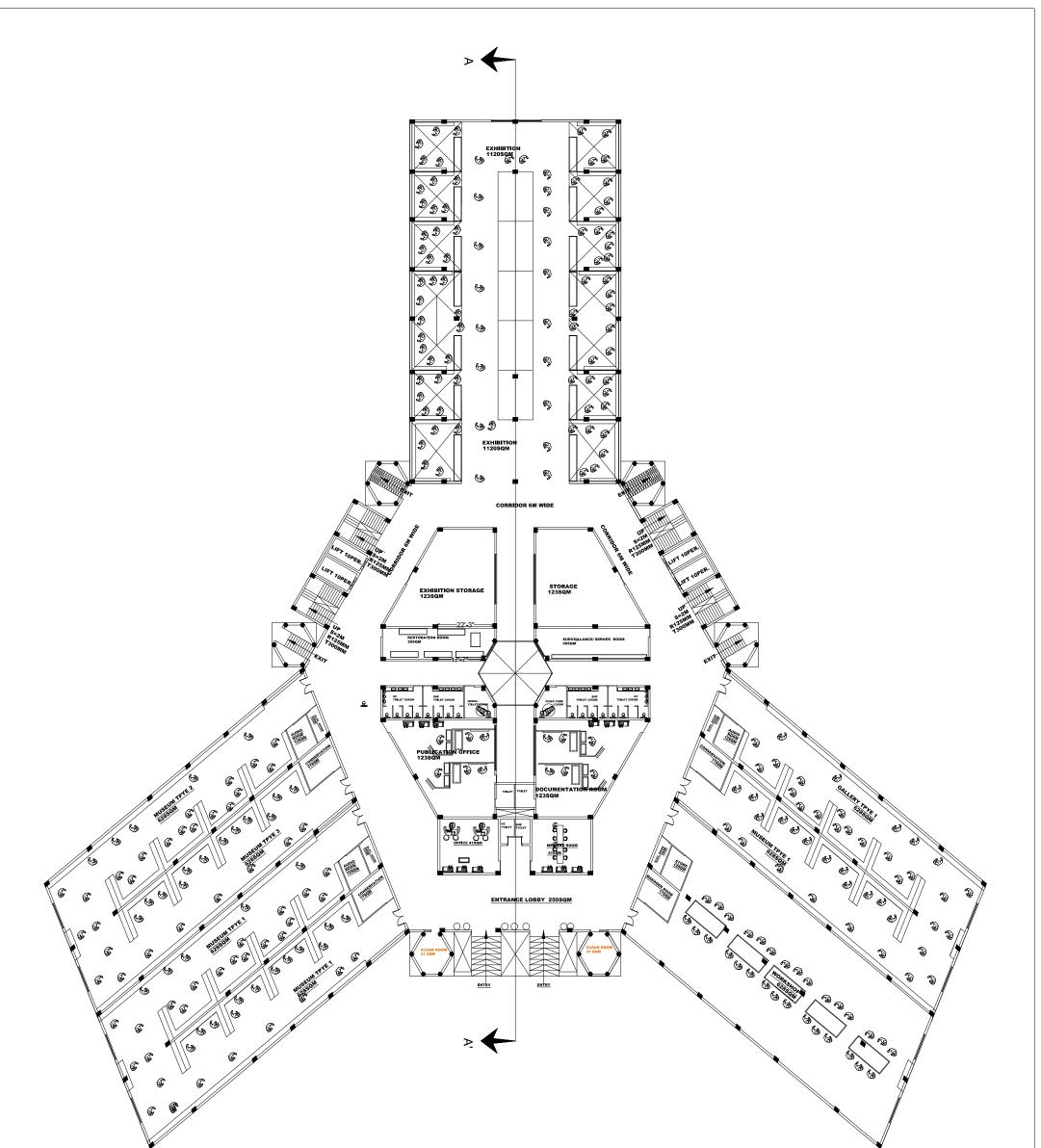
	G+1					G+2			NO. OF FLOORS
	1.2					1.2			F.A.R
	28000					25340			TOTAL BUILTUP AREA
	5601		25%			7240		40%	CIRCULATION
	22404					18100			TOTAL AREA
	5000		2						EXHIBITION
2	8000	DIFF.	2			9440	DIFF.	25	GALLERIES
	350		1			120			MAINTENANCE GARAGE
	100								DINNING
	40								KITCHEN
	12								SERVICE
	560	560							GUEST ROOM
	15	15	1						ADMIN OFFICE
	50	25	1						RECEPTION / WAITING LOUNGE
									HOSIPITALITY
	4000								MUSEUM
			5					2	BUS
				50SQMT/ BUS				80	2 WHEELER
				1.25SQ.M/VEHICLE				35	CAR
				2ECS/ 100 SQ.M					PARKING
	12					8			CARE TAKER ROOM
1	30				1	30			MAIN CONTROL ROOM
1	15				1	15			SERVER ROOM
OCCUPANCY (PERSON)	TOTAL AREA (SQ.M)	AREA (SQ.M)	UNITS	AREA IN METER / PERSON	OCCUPANCY (PERSON)	TOTAL AREA (SQ.M)	AREA (SQ.M)	UNITS	SPACE REQUIREMENT
5)	NATIONAL WAR MUSEUM DELHI (FINAL AREAS)	VATIONAL V	7	STANDARDS	). H	NATIONAL MUSEUM DELHI (CASE STUDY-1)	NATIONAL N (C	_	

#### For Disabled People



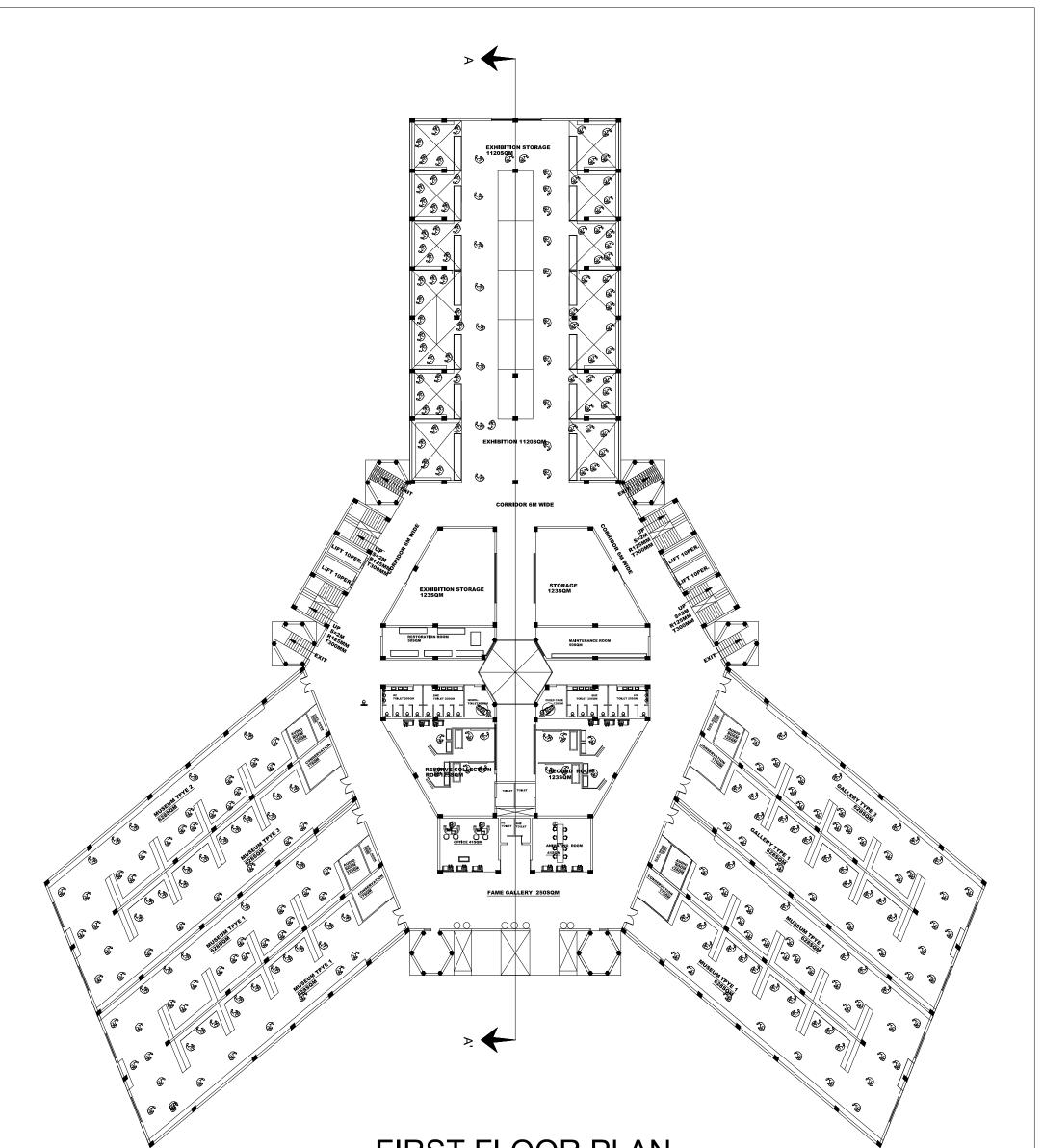
NOTE: X shall be  $\leq 25$  in (635 mm); Z shall be  $\geq X$ . When X < 20 in (510 mm), then Y shall be 48 in (1220 mm) maximum. When X is 20 to 25 in (510 to 635 mm), then Y shall be 44 in (1120 mm) maximum.

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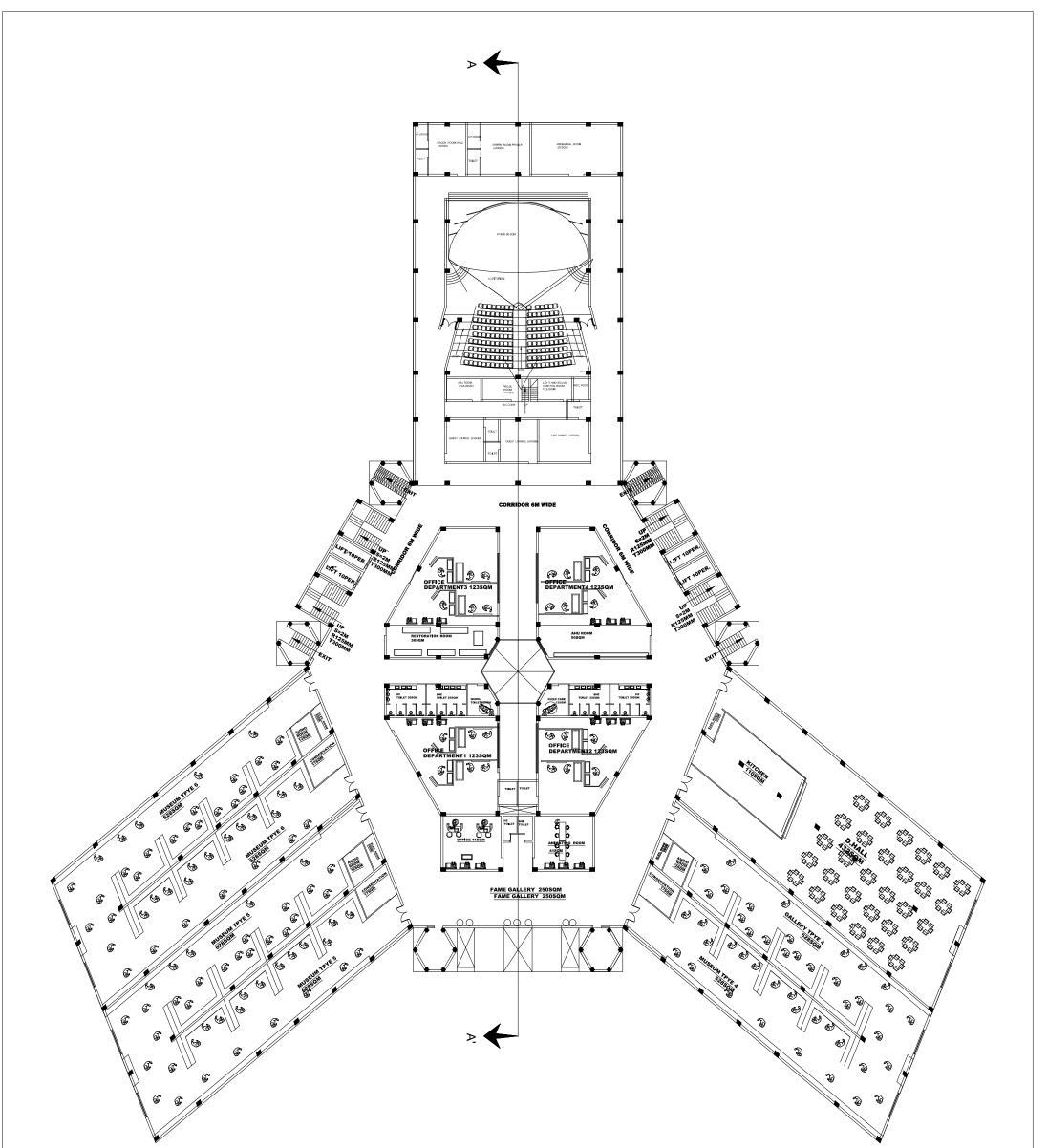
## **GROUND FLOOR PLAN**





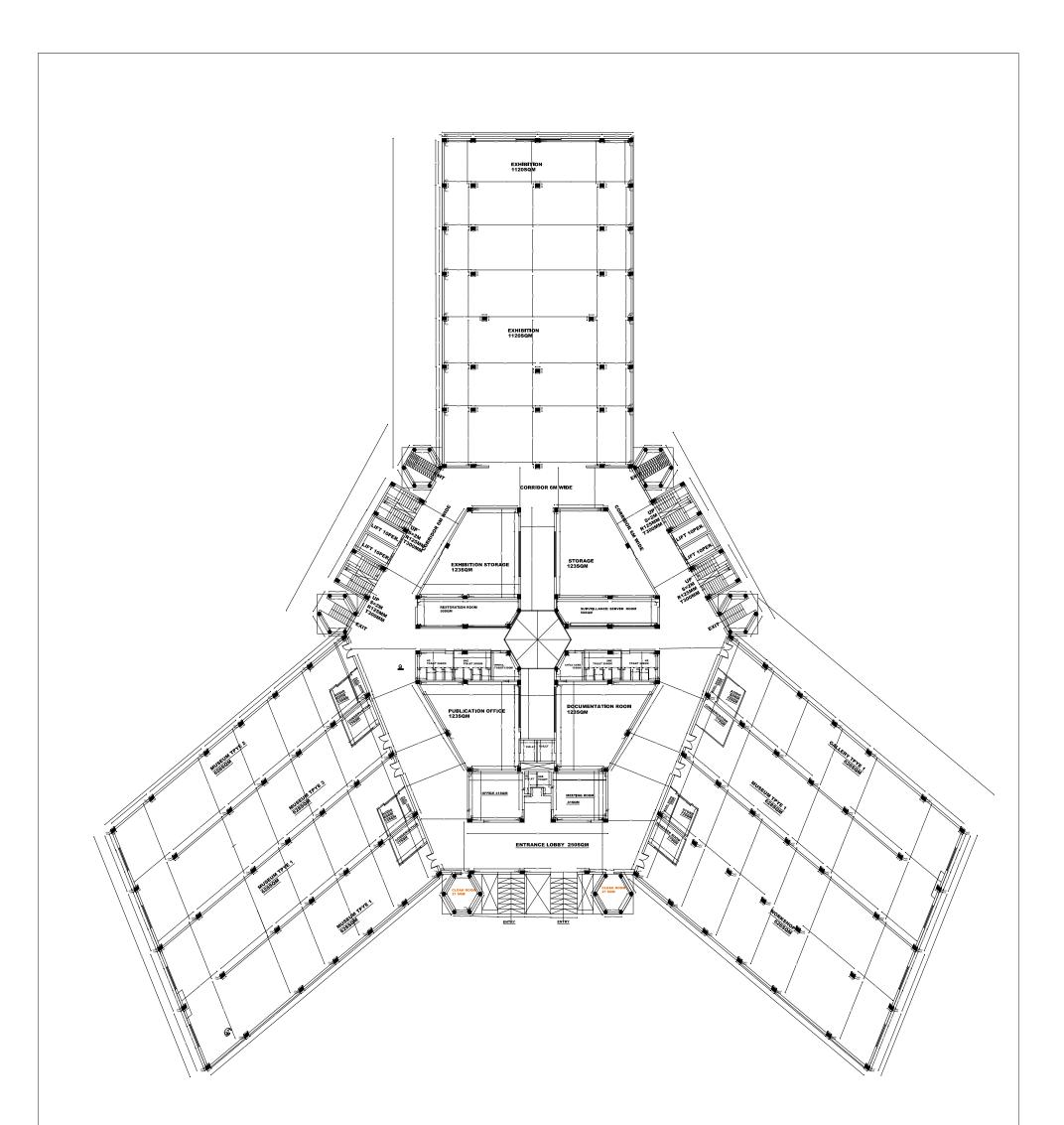
## FIRST FLOOR PLAN



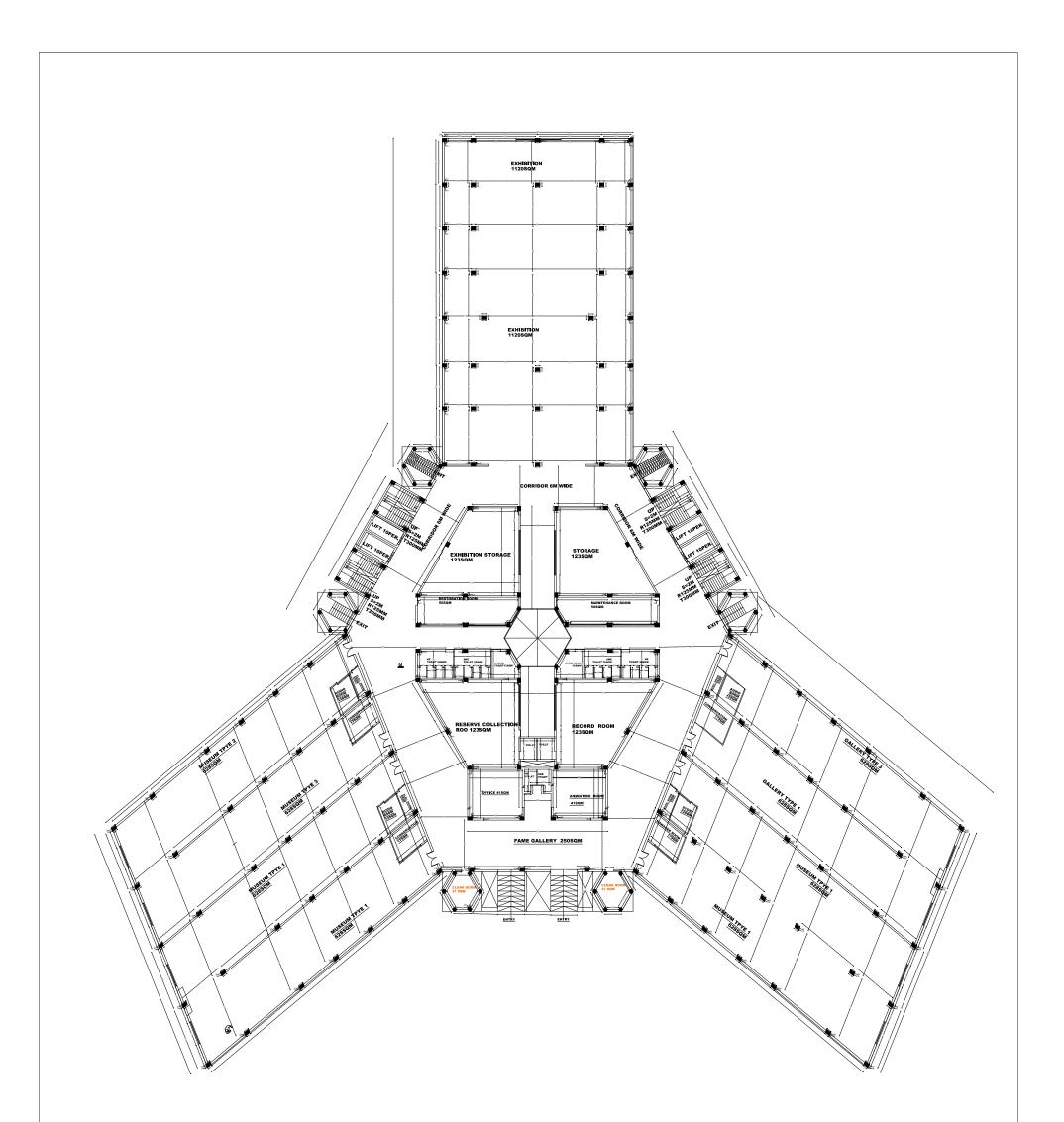


## SECOND FLOOR PLAN

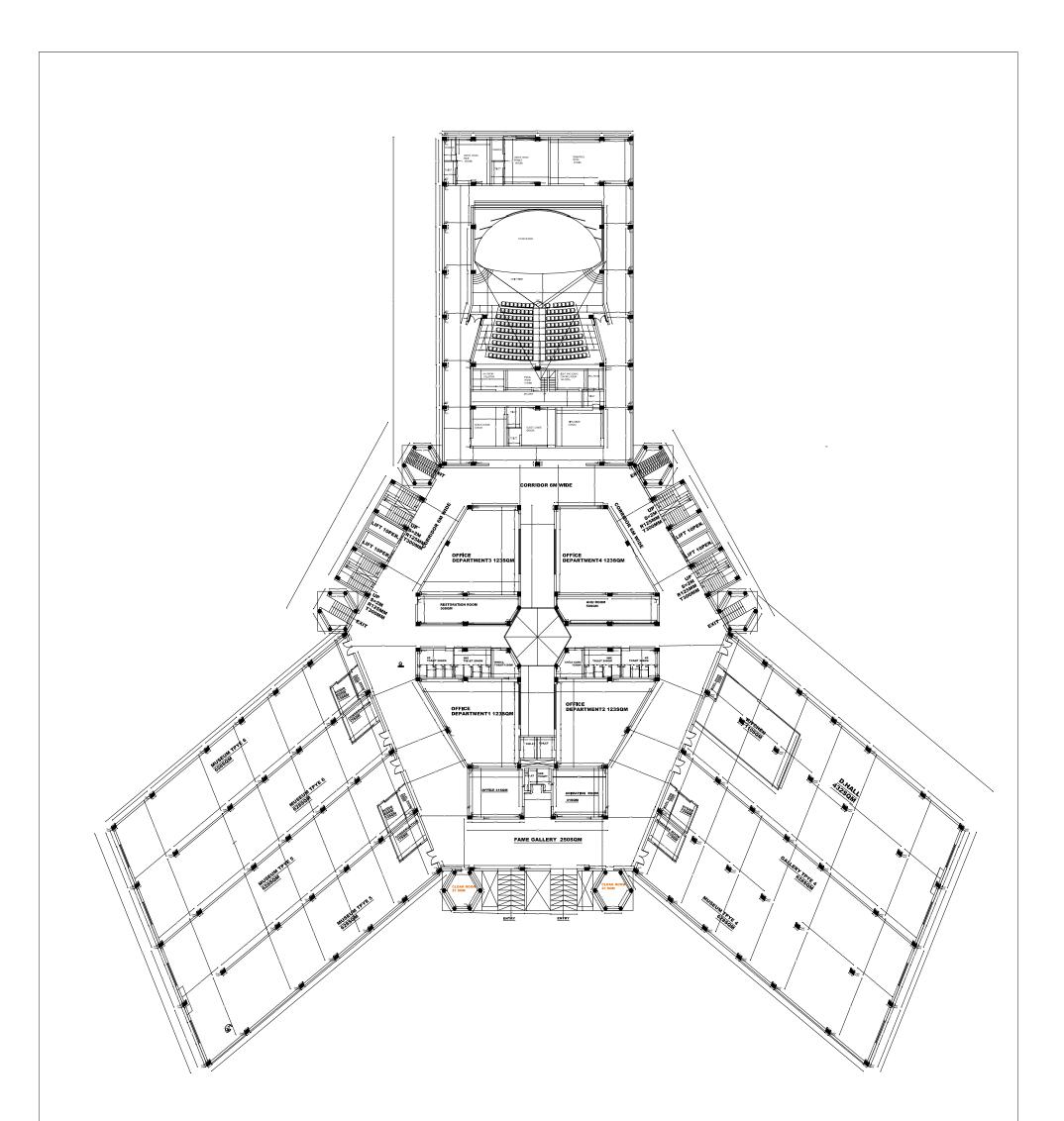




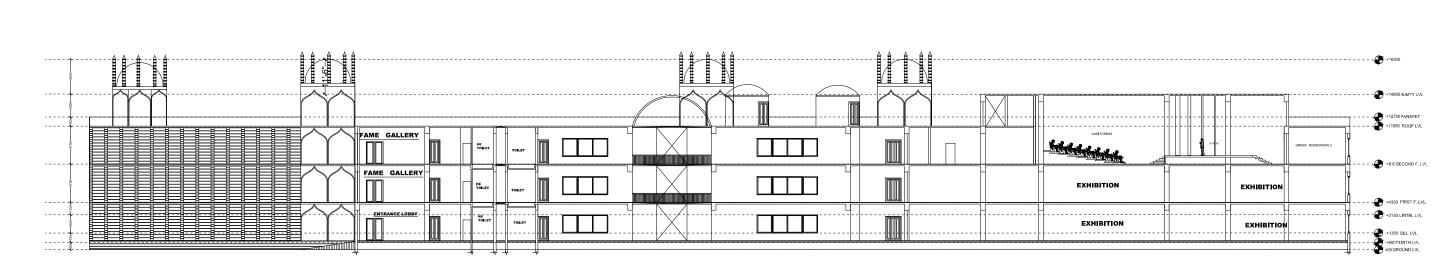
#### GROUND FLOOR PLAN(WORKING)



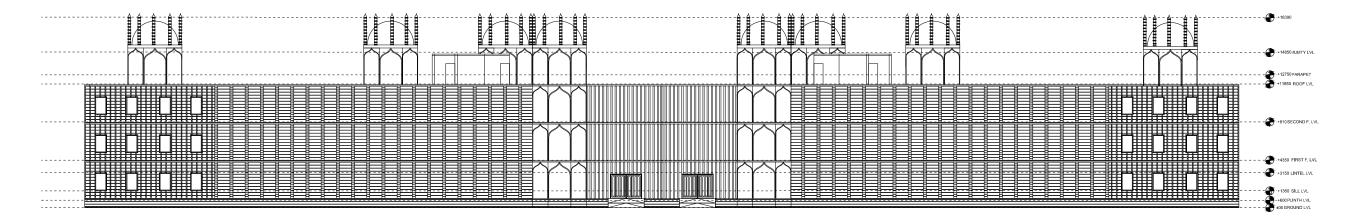
#### FIRST FLOOR PLAN(WORKING)



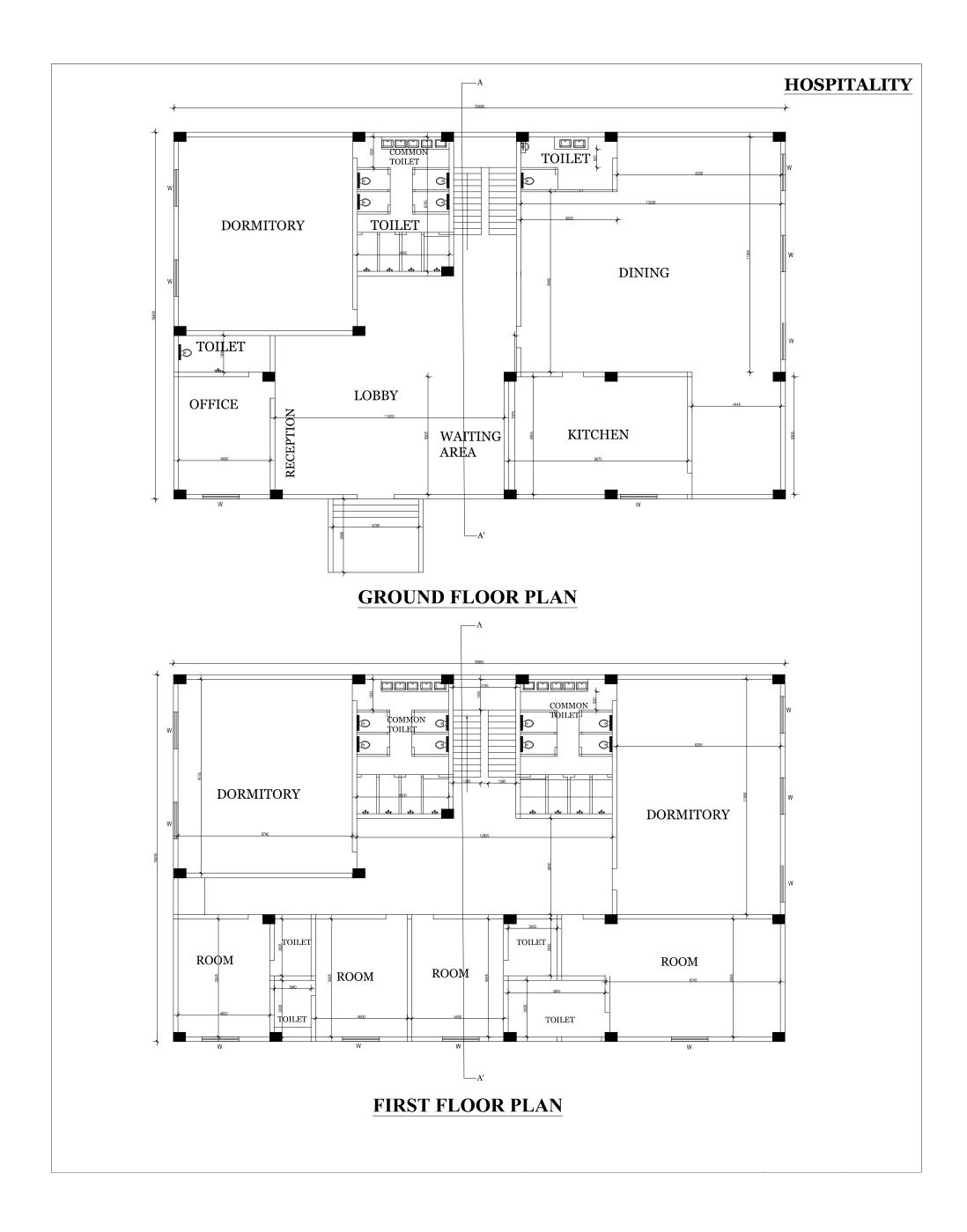
#### SECOND FLOOR PLAN(WORKING)

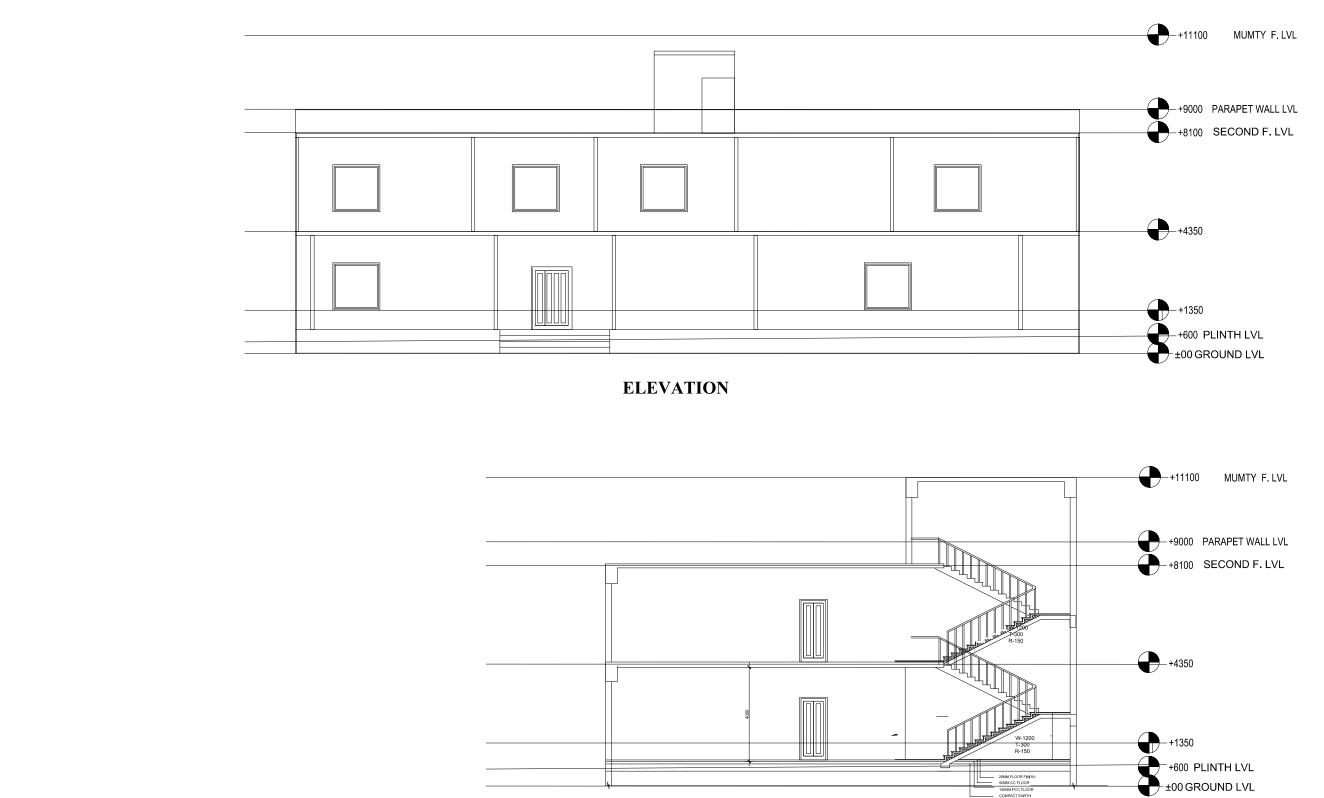


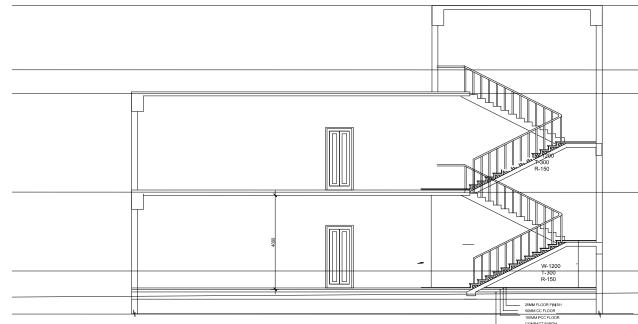
SECTION A-A'



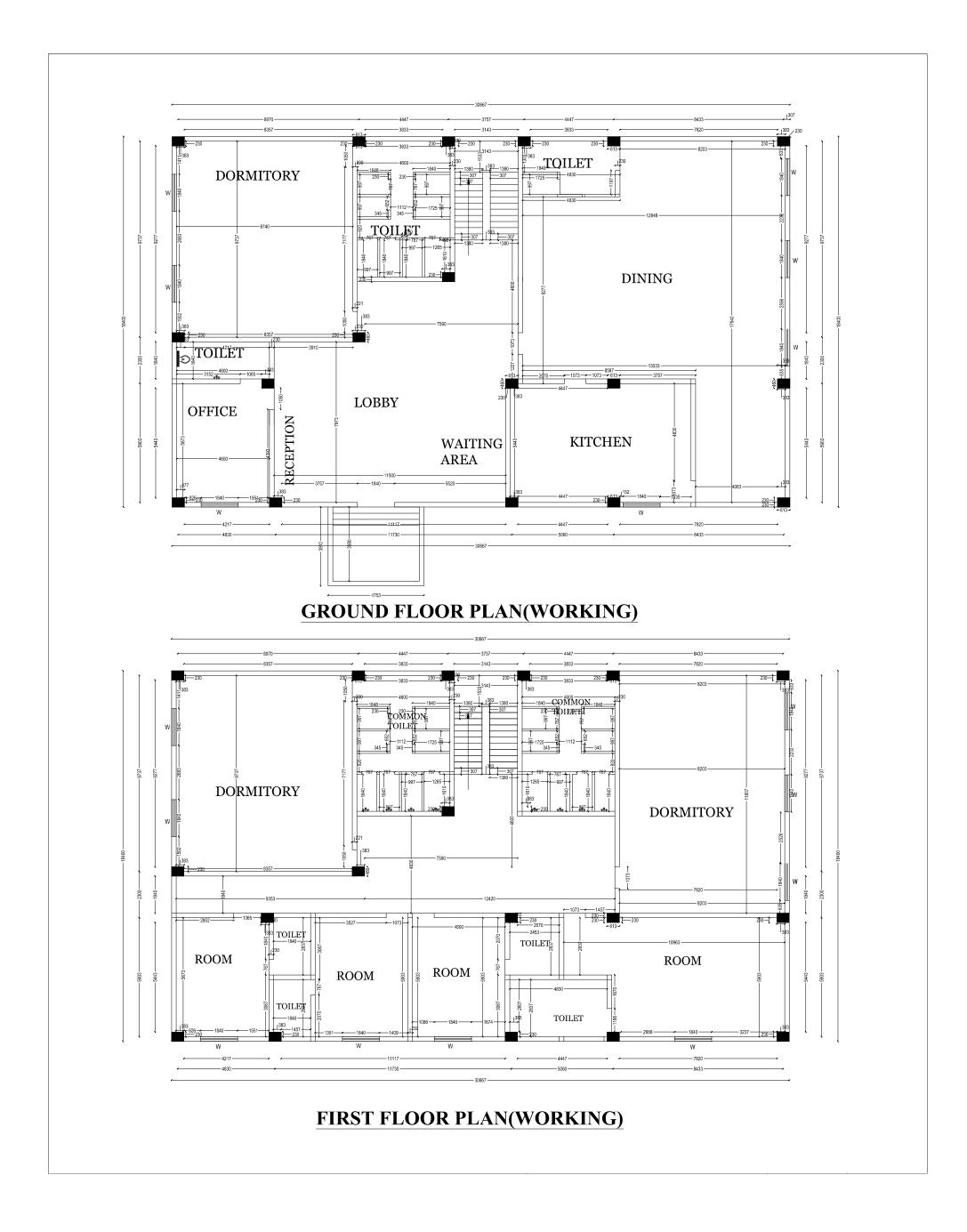
## FRONT ELEVATION







**SECTION A-A'** 



#### 15.23M WIDE ROAD

#### 15.23M WIDE ROAD

#### 15.23M WIDE ROAD

