THESIS REPORT ON

"GLOBAL ART VILLAGE: VRINDAVAN, MATHURA.

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

BACHELOR OF ARCHITECTURE

BY **AMIT PRAJAPATI** (1190101007)

THESIS GUIDE

PROF. MOHIT AGARWAL

SESSION

2023-24

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

	can be accepted as partial fulf or's degree in architecture, S ow.	-
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ernal Examiner	External Examiner-1	External Examiner-2

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4. Degree for which the thesis is submitted: Bachelor of Architecture (B. ARCH)

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

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8. The content of the thesis have been organized based on the guidelines. Yes / No

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- AMIT PRAJAPATI

CONTENTS

DECLARATION	i
CERTIFICATE	ii
ACKNOWLEDGEME	ENT iii
CHAPTER – 01 – PF	ROJECT INTRODUCTION 8-9
1.	Introduction
2.	Project Introduction
3.	Aim
4.	Objective
CHAPTER – 02 – SI	TE ANALYSIS 10 - 16
1.	Site Introduction
2.	Site Connectivity
3.	Site Details
4.	Site Plan/ Site Surrounding
5.	Site Images
6.	Site Section
7.	Landmarks
8.	Demography
9.	Site Hierarchy
10	. Vegetation Analysis
11	. Traffic Analysis
12	. Climate Analysis

2.12 Sun Path Details

2.12 Site Services

2.12 SWOT Analysis

CHAPTER - 03 - CASE STUDY

17 - 29

1. National Craft Museum, Delhi

- 1. Introduction
- 2. Project Details
- 3. Connectivity
- 4. Location
- 5. Concept
- 6. Design Analysis
- 7. Climate Analysis
- 8. Site Plan
- 9. Floor Plan
- 10. Activity Mapping
- 11. Inferences

2. Awadh Shilpgram, Lucknow

- 1. Introduction
- 2. Project Details
- 3. Connectivity
- 4. Location
- 5. Concept
- 6. Site Plan
- 7. Floor Plan
- 8. Site Section
- 9. Climate Analysis

10.	. Architectural Characteristics	
11.	. Inferences	
CHAPTER – 04 – AREA	ANALYSIS	30 - 35
1.	Spatial Organization Chart	
2.	Site Details	
3.	Administration Block	
4.	Workshop	
5.	Arts and Craft	
6.	Design Training and Research	
7.	Recreational Amenities	
8.	Accommodation	
9.	Services	
CHAPTER – 05 – CONCI	EPT AND ZONING	36 - 39
1.	Concept	
2.	Zoning	
CHAPTER – 06 – ARCHI	TECTURAL DRAWINGS	40 - 51
1.	Site Plan	
2.	Floor Plan	
3.	Section	
4.	Elevation	
5.	3d Views	
CHAPTER – 07 – ELECT	IVE	52 - 54
1.	Material	<i>52 5</i> 7
2.	Signage	

1.1_INTRODUCTION-

Handicraft is one of the most important sectors in the Indian economy employing more than seven million people. The craft industry in India is dominated by female artisans with over 56% of the total artisan. While most of the manufacturing units are in rural and small towns, and there is enormous market potential in all Indian cities and abroad. Handicrafts are becoming increasingly popular as the country's travel and tourism industry grows. Tourists spend significant money on souvenirs and other craft items, expanding the opportunity for local artisans and craftspeople to produce and sell efficient handicrafts. Furthermore, rising demand for handmade décor accessories in homes, offices, and restaurants and rising demand from the gifting industry are propelling market growth. The sector is economically viable with low capital investment, high value addition ratio and high export potential. This in turn creates an opportunity for the Indian rural economy to grow. The role of rural development is important not only for most of the population who live in rural areas but also for the overall economic development of a country in the process of the evolution of the country.







C R A F T

HISTORY









1.2 PROJECT INTRODUCTION-

Creating experiential Centre by providing exposure and support to the handicrafts sector in the city by bringing the best designers to create Designs while creating a vibrant public space, "ART DISTRICT" in the heart of the city. The Project shall also create a research and training center to encourage more people into the trade and give the public a firsthand experience on the manufacturing process.

Project Name- GLOBAL ART VILLAGE Client Name- UP PRO POOR TOURISM

MATHURA, VRINDAVAN PROPOSAL FOR GLOBAL ART VILLAGE



GLOBAL ART VILLAGE



Culture

1.3_AIM-



Increasing Tourist Inflow rate



Providing a
Permanent Platform
and integrated
support to Artisans
improving the
Socioeconomic
conditions of Artisan

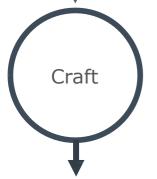


Creating an identity
Increasing the
quality of life
Bringing livelihood
opportunities to the
local



Promoting Craft Capacity building and training





To discuss the importance of art and its impact on visitors and in the development of society.

Improving rural productivity and wages.

To provide a center where tourist and can see the process of making the craft and then purchase it.

to achieve increased productivity, greater socio-economic equality and ambition, and stability in social and economic development.

Cuisine

SITE LOCATION

CHAPTER 02

1. SITE INTRODUCTION-

One of the spiritual and sacred places in India, lined with a number of temples along the roads is Mathura City, the birth land of Lord Krishna. It is situated in the state of Uttar Pradesh in North India and is one of the seven holy cities of India.

The city attracts a lot of worshippers and tourists on a daily basis and is filled to the brim with devotees seeking spiritual enlightenment. It is filled with many historical and religious significance sites. Lord Krishna was born in a prison, where their parents Mata Devaki and Vasudev were captured by his maternal uncle Kansa.. Some portray the different avatars of Lord Krishna and some show the idols Radha and Krishna. The two most important temples in the city are Dwarkadheesh temple and the Gita temple. These temples are an example of the wonderful architecture and design of the ancient India. Dwarkadheesh temple is the temple where the festivals of India like Holi and Janmashtami are celebrated every year on a grand scale.



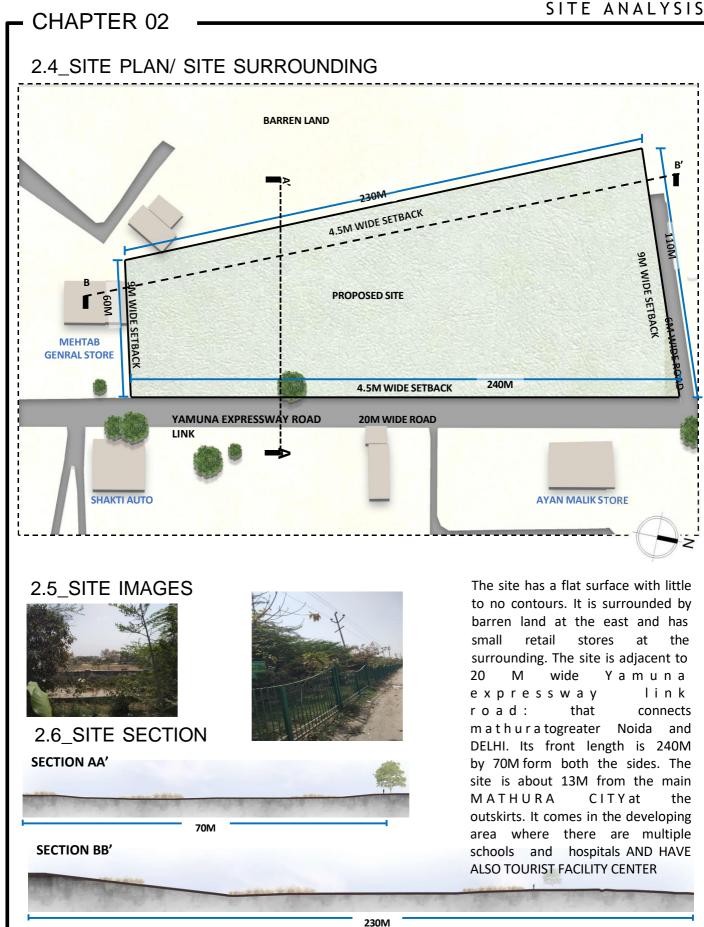


DESIGN PROPOSAL FOR GLOBAL ART VILLAGE ON THIS SITE LOCATED IN VATSALYA GRAM, VRINDAVAN ,MATHURA





PROJECT NAME	GLOBAL ART VILLAGE					
CLIENT NAME	UP PRO POOR TOURISM					
LOCATION OF PROJECT	MATHURA, VRINDAVAN, Uttar Pradesh, 281121					
SITE COORDINATE	27°33'31.0"N 77°41'14.3"E					
PLOT AREA	5.05 ACRE (20477.09 SQ.M)					
PERMISSIBLE FAR	1					
PERMISSIBLE GROUND COVERAGE	40%					
FRONT AND REAR SETBACK	9М					
SIDE SETBACK	4.5M					



CHAPTER 02 **SURROUNDING ROAD SURROUNDING BUILDING** SURROUNDING VEGETATION S Т E Н ı Ε R Α R Η Y

2.9.1 INFERENCE

SOIL CONDITION

The soil type is alluvial calcareous clay. It is deep, loamy soils, slight salinity and moderately sodality associated with silty soils slightly eroded. The SBC of the site is 150 KN/ SQ.M. The alluvial soils significantly modify the characteristics of ground shaking

Analysis- For low rise Industrial Building Spread footing Foundations are used

SEISMIC ZONE 4 DESIGN ANALYSIS

- Grade of concrete M25, grade of steel Fe
 415. Floor to floor height 3.1 m
- Slab thickness- 115 mm
- External wall thickness 230mm, internal wall thickness- 115mm. Size of column -350mm x 350mm. Size of beam-300mm x 450mm.
- Density of concrete 25kN / (m ^ 5) ,
 Density of masonry wall 20kNm
 SOURCE BASED ON IT KANKUR HANDBOOK

VEGETATION ANALYSIS.



BABOOL TREE (Vachellia nilotica)- Suitable for afforestation. Good hedge plant due to its thorny nature. Although it is not suitable for roadside planting and for parks and garden as it is thorny with a shorten life span.

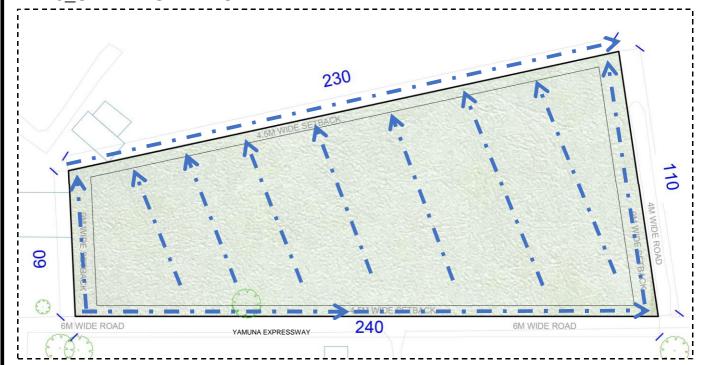
NEEM TREE (Azadirachta indica)- Suitable for afforestation and ornamental purpose

SHISHAM TREE (Dalbergia sissoo)-Planted along road and garden for shading.

EUCALYPTUS TREE
(Eucalyptus globulus)Eucalypt timber is highly
regarded for its
decorative appearance,
excellent strength,
hardness

Tite:GLOBAL ART VILLAGE

2.10_SITE VEGETATION

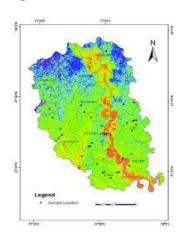


2.10.1_SITE GROUND DETAILS

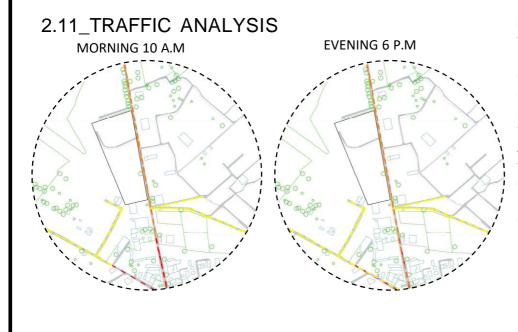
SITE HEIGHT FROM WATER LEVEL	185M
ECOLOGICAL SUB REGION	Western plain zone
CLIMATIC ZONE	Upper Gangetic Plain Region
LAND USE	Developing Residential mixed use
SOIL TYPE	Alluvial soil
SBC	150- 180 KN/M2
CLIMATE	Semi-arid
SITE NATURAL DRAINAGE	Towards Yamuna river
GROUND WATER AVAILABILITY	7712 HAM
SEISMIC ZONE	Zone 4

2.10.2_DRAINAGE AND HYDROLOGY OF SITE DETAIL





The natural slope of the district is towards Yamuna or Ganga River. The pre-monsoon depth to water level in the district generally ranges between 1.75 and 26.63 mbgl. Shallow water level conditions i.e. within 6.00 mbgl, generally occurs along the upper Ganga canal. The site has a natural slope towards the Yamuna River along the north- east direction, where it is more preferable to set up STP or Sewage Plant (if necessary).



The road surrounding the site faces a high to medium traffic congestion as it runs parallel to the Yamuna expressway link. The road diverts the traffic of trucks and other heavy vehicle from the center of the city. Just before the site is the tourist facility centerwhich causes a medium to low traffic congestion.

MEDIUM VEHICLE SMALL VEHICLE

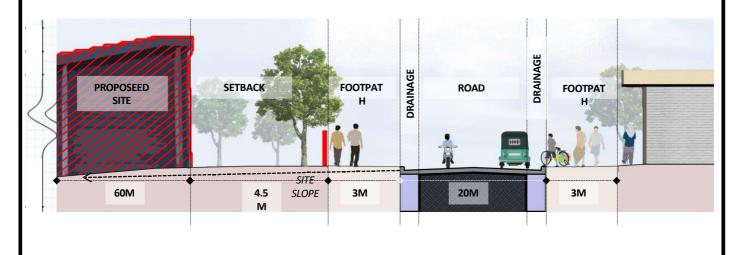
TRANSPORT MODE, EQUIVALENT PCU AND TYPE OF VEHICLE

VEHICLE	EQUIVALENT PCU FACTOR	TYPE OF VEHICLE
Bus/ truck	3	Motorized
Car/ Jeep	1	Motorized
LHV	1	Motorized
Auto Rikshaw	1	Motorized
Two-wheeler	0.5	Motorized
Cycle Rikshaw	1.5	Non-motorized
Bicycle	0.5	Non-motorized
Bullock Cart	6	Non-motorized

ANNUAL TOURIST VISITS STATISTIC FROM 2018-2022 (Form MDA)

YEAR	INDIAN	FOREIGN	TOTAL
2018	NA	NA	NA
2019	3220057	13522	3233579
2020	3428111	15364	3443475
2021	406000	0	406000
2022	1700000	0	1700000

Form the tourist statistic we justify the need for a tourist center in MATHURA with an about estimate of users that might visit the site. It will give us the required number of car parking.



CHAPTER 02 ANNUAL TEMPERATURE VARIATION IN MATHURA 2.11_SUN PATH DETAILS → High Temp. (°C) Low Temp. (°C) AS PER SUMMER SOLOISTIC 42.3°C 42.1°C 40 34.4°C 33.6°C 33°C 35 30 20 8 A.M- The morning sun 5 P.M- Southeast region hits the northeast receives most of the shade region providing shade with the hottest region in the southwest region being northwest AVERAGE MONTH-WISE RAINFALL (MM) IN MATHURA AS PER WINTER SOLOISTIC 207.1 200 150 100 8 A.M- The sun angle is 5 P.M- Northeast region 16.5 14.2 10.1 5.1 low due to which receives most of the northwest region shade Mar Apr May June July Aug Sep Oct Nov Dec receives longer shade WIND DIRECTION DISTRIBUTION IN MATHURA **INFERENCE** SITE PLAN AS PER CLIMATE DETAIL NNW NNE 20 NW NE HA Т WNW Α W Ą Α ESE WSW S SW SE SSW SSE S S

STRENGTH

- It is surrounded by local schools that makes is ideal for educational purpose.
- Great project to increase the local revenue
- Away from major congestion area making it an ideal site location for industrial use.

S

W

2.12_SITE SEVICES





MLD SEWAGE WATER TREATMENT PLANT

WEAKNESS

- Poor pedestrian ways
- Lack of shaded walkways
- Lack commercial centres around the sit

Opportunity

- Residential zone around provides opportunity for the project.
- It is in a newly developing area, and it could be an attraction for both tourist and the local people.

GROUND WATER TABLE ANLYSIS

- Net Annual Ground water Availability- 7712 ham
- Existing Gross Ground Water for Industrial Supply 448 ham
- Safe to use and rising by 0.19 cm/per year
- Pre-monsoon- 9.7 to 19.8 mbgl and
- Post monsoon- 7.85 to 19.95 mgl
- ANALYSIS- It is safe to install boring as the water is safe to use for drinking and sanitation purpose and not depleting.

THREAT

- The Site is relatively flat with very gentle slope.
 The site drainage needs to be maintained.
- The site is in the seismic zone 4
- It is in the less
 populated part of the
 city which is not fully
 developed.

LOCALLY AVAILABLE MATERIAL IN MATHURA







Cement

Fly Ash Bricks

Hollow Clay Blocks

3.1 NATIONAL CRAFT MUSEUM, DELHI

3.1.1_INTRODUCTION

The National Museum in New Delhi is one of the largest museums in India. It holds variety of articles ranging from pre-historic era to modern works of art .It was established on August 15, 1949. In this project the architect Charles Correa succeeds in interpreting the timeless quality of India, where tradition and modernity coexist, into a building that resists the label 'museum'. Showcase India's rich tradition of handicrafts. Perfect example to show case the local and national identity of crafts, that has been elaborated through architecture spaces, materials and other elements. The museum is mainly divided into three sections: Display gallery and store, Village complex, Crafts Demonstration area.



3.1.3_CONNECTIVITY-

This museum is connected to the main road with a 24m wide (72ft) road with approximately means 3+1 lanes for each side of traffic. Walking commuting pedestrians have an advantage too as there exists a 2m pavement. The street outside is a National Highway and directly connects to the Asian highway in 300m.



High Court Metro Station- 2km



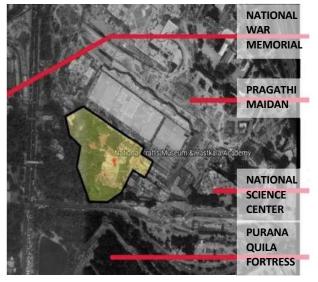
Indira Gandhi International Airport - 16.7 km



Railway Station -5 km



ISBT - 6.3 km



3.1.2_PROJECT DETAILS-

Architect:- Charles Correa
Site Area:- 5 acre (20234 sq. m)
Ground Coverage area:- 6800 sq. m
Ground Coverage Percentage:- 30%

F.A.R:- 0.9 sq.m

Built – up area:- 18500 sq. m **Construction Year:-** 1975- 1990

Completion Year:- 1990 Footfall:- 400 visitors annually

Form and Scale:- Masculine Form and Human Scale Style of Architecture:- Vernacular architecture Set up in 1956 by the all-India handicrafts board

3.1.4_LOCATION-

Bhairon Marg, Pragati Maidan, facing the Purana Qila complex, Delhi, 110001

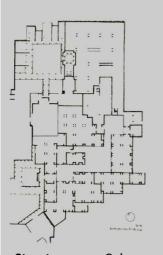


3.1.5_CONCEPT PHASE 2 DEVELOPEMENT DEVELOPMENT DEVELOPMENT

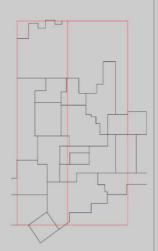
Planning Concept- Galleries, store, administrative areas and library situated around a series of open to sky courts.

Building was designed such that it merges with the site surrounding. 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 creating an unhinged circulation.

3.1.6 DESIGN ANALYSIS-



Structure: Columnar and planar structure, Regular, structure defines the space.



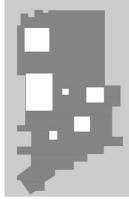
Geometry: The complex has a main rectangular geometry with manipulation of rectangular form around it.



Hierarchy: there is hierarchical order from major to minor spaces through scale and geometry of spaces



Balance: The amphitheater at the Centre of the complex creates the balance to the entire structure



Built to unbuilt relationship: 80% of the area consist of built spaces



Light source: The main source of Natural light is the direct light from the courtyard which disperses towards the sides creating a natural environment.

3.1.7_CLIMATE ANALYSIS

Delhi has a composite climate type to tackle this following construction technique and materials were used **CONSTRUCTION TECHNIQUES USED-**



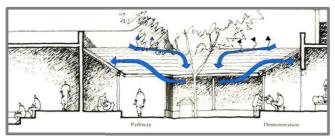
The low-lying building is "masked" with tiled roofs supported by ballis on all sides with big champa trees on the inside



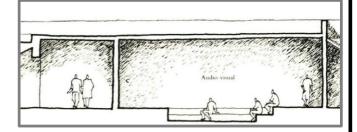
Multiple internal Courtyard with trees as buffer zone and semi open passages



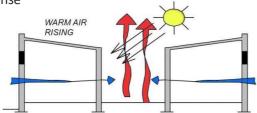
Mud and bamboo walls



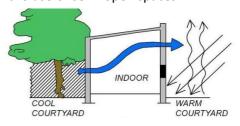
Hot air enters from smaller opening and gets cooled keeping the inside cool circulation climatic response



Due to hot and humid climate users mostly prefer the use of semi open spaces



Courtyard effect during day- air in courtyard becomes warmer due to incident solar radiation & rises up. Cool air flows through windows



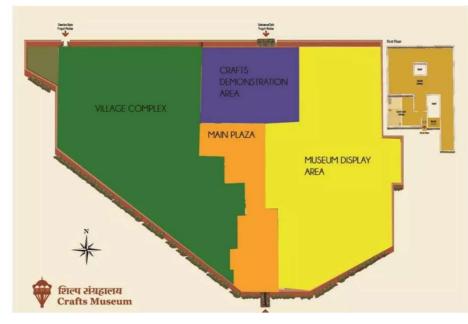
Courtyard effect with buffer zones- air flow in room is main- tained by dual courtyard effect where courtyard is kept cool by shady trees

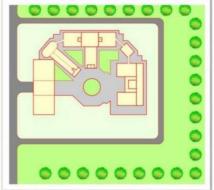
MATERIALS USED-



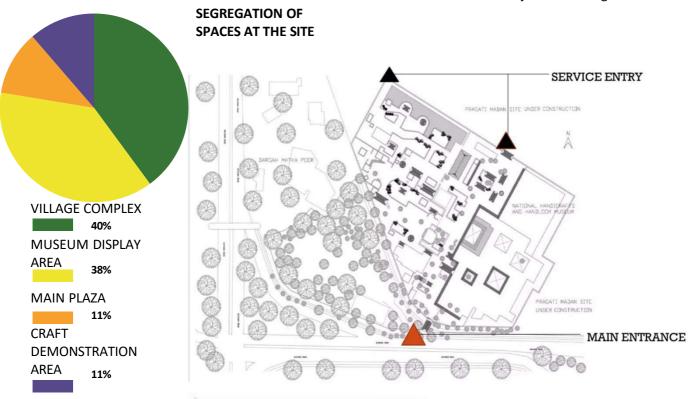
Tite: GLOBAL ART VILLAGE

CHAPTER 03 3.1.8_SITE PLAN



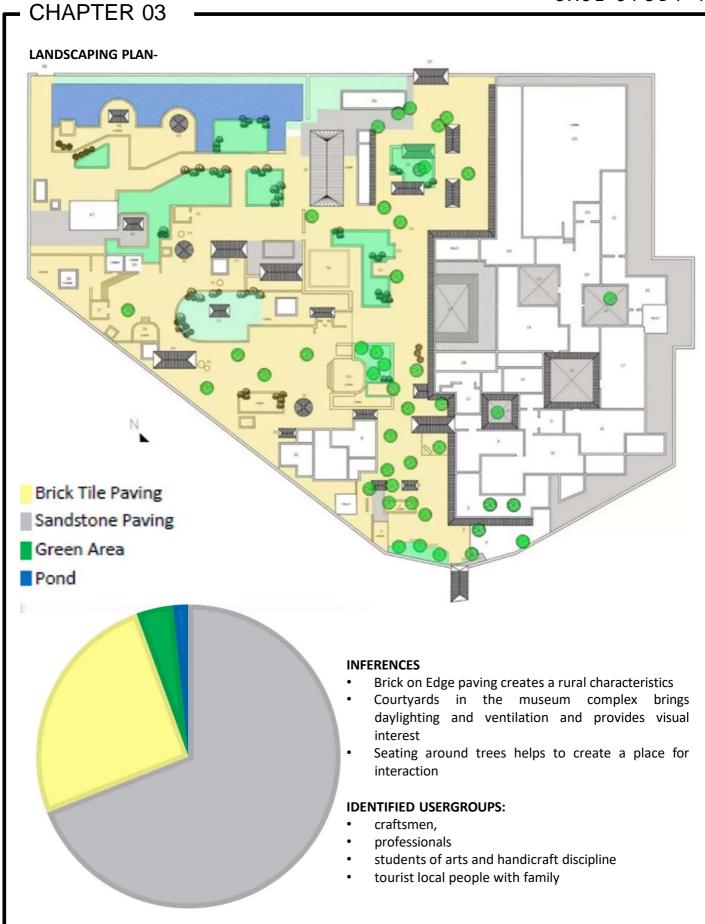


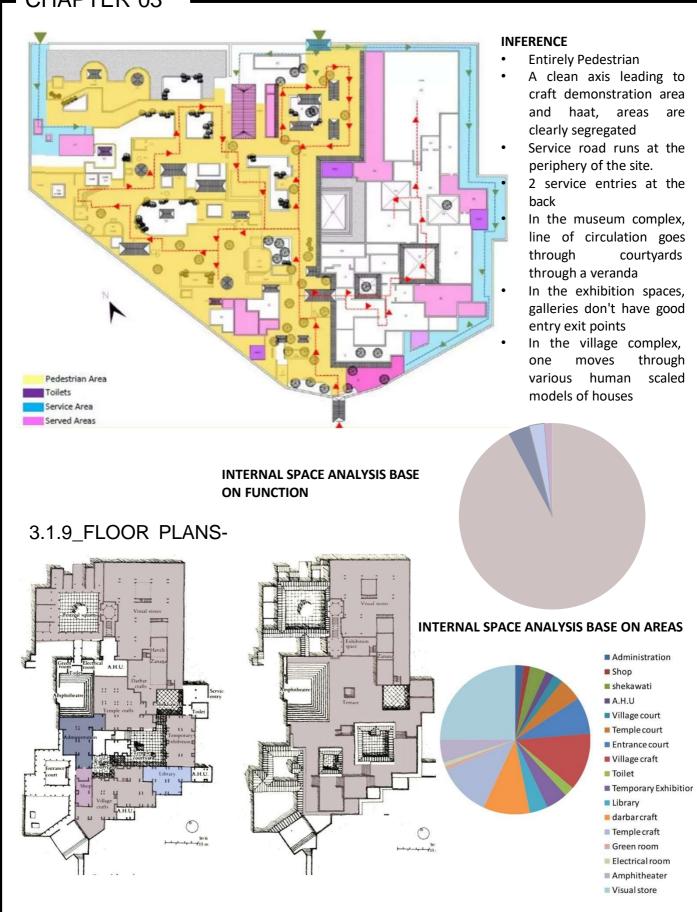
INFERENCE- Despite excellent building circulation the site is not well segregated. There is no proper parking facility around the building and the landscape area is not designed well. Parking facilities are provided at the adjacent building.



INFERENCE-

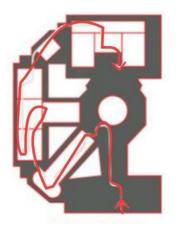
- Parking is not available
- Site can be accessed by a single road
- Service entries are from the back but not used currently due to construction in Pragati Maidan

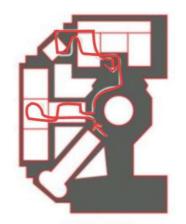




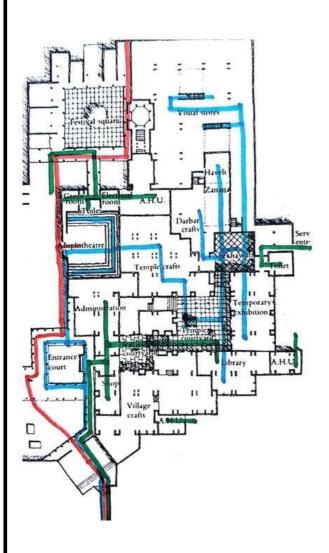
CIRCULATION PLAN-

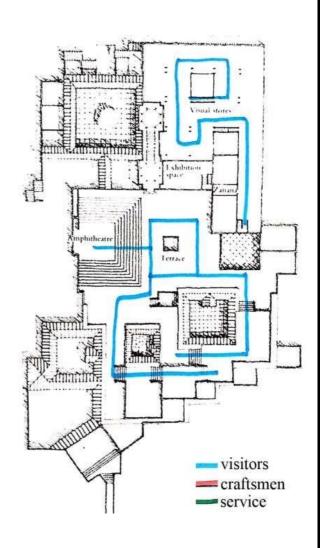
- The Ideology behind the circulation pattern was that every section of exhibition can be experienced by the visitors and no section is left untouched.
- The walk through the museum leads one through a series of open, semi open and closed spaces. The whole museum is divided into small galleries which reduces the problem of circulation.











3.1.10_ACTIVITY MAPPING-



3.1.11_INFERENCES-

CONSTRUCTION DETAILS-

SR NO.	DESCRIPTION	ANALYSIS
1	Structure	Load bearing
2	Material	Exposed Concrete, Stone
3	Roof	Clay Tiles
4	Height of Walls	3m
5	Wall Thickness	300 mm
6	Flooring	Stone
7	No. of Storey	1

SERVICES

SR. NO	SPACE	NO.OF UNITS	AREA (SQ.M)
1	Maintenance	1	50
2	Janitor Room	1	20
3	Store	5	100
4	Housekeeping Centre	1	20
5	High Tension Control Room	1	200
6	HVAC Room	1	200

- Brick is the main material used in walls as well as pathways. Walls are plastered with mud and cow dung plaster.
- Bamboo is used as purlins and rafters in roofing and as screens to separate one area from another.
- Supported on wooden truss, the roof is covered with Mangalore tiles.

3.2 <u>awadh shilpgram, lucknow</u>

3.1.2 INTRODUCTION

Awadh Shilpgram was designed from inspiration cultural, political, commercial entertainment activities of people. It was built with a motive to keep the warmth of lakhnavi markets and culture alive and to keep the memories of streets of the city alive. That aims to provide local craftspeople with a place where they can share ideas, teach, learn and sell their work directly to customers. The layout of the twenty-acre Awadh Shilpgram has evolved organically from the commercial, cultural, social and leisurely interactions of people.



3.2.2 PROJECT DETAILS-

Architect:- Ar. Saurabh Gupta Architectural Consultants :- Archom Consultant

Site Area:- 20 acre (80937.1 sq. m) Ground Coverage area: - 32538 sq. m **Ground Coverage Percentage:-** 45% Built - up area:- 29784 sq. m

F.A.R:- 0.5 sq.m

Construction Year: 2013 - 2016

Completion Year:- 2016 Footfall: 250 visitors annually

Style of Architecture:- Contemporary

Architecture

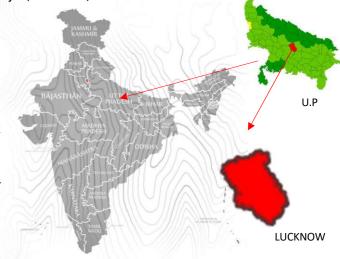


3.1.3 CONNECTIVITY-

Its proximity to Kannauj, Khurja, Bhadohi, Moradabad, Varanasi, Firozabad, and many more such cities-each with distinct handicrafts, makes it a relevant place to host a socio-cultural institution. It is adjacent to outer bypass- Amar Shaheed path which is about 20 m in width. Entrance is from 9 m wide two-way road

3.1.4 LOCATION-

Near Sector 9, Amar Shaheed Path, Awadh Vihar Yojna, Lucknow, Uttar Pradesh 226029





Transport Nagar Metro Station-11.1km



CCS Airport- 12

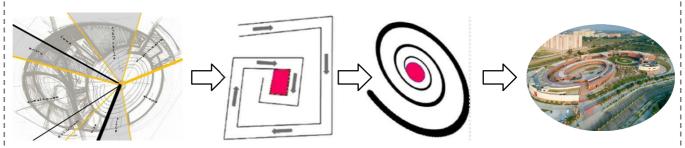


Charbagh **Railway Station-**12 km



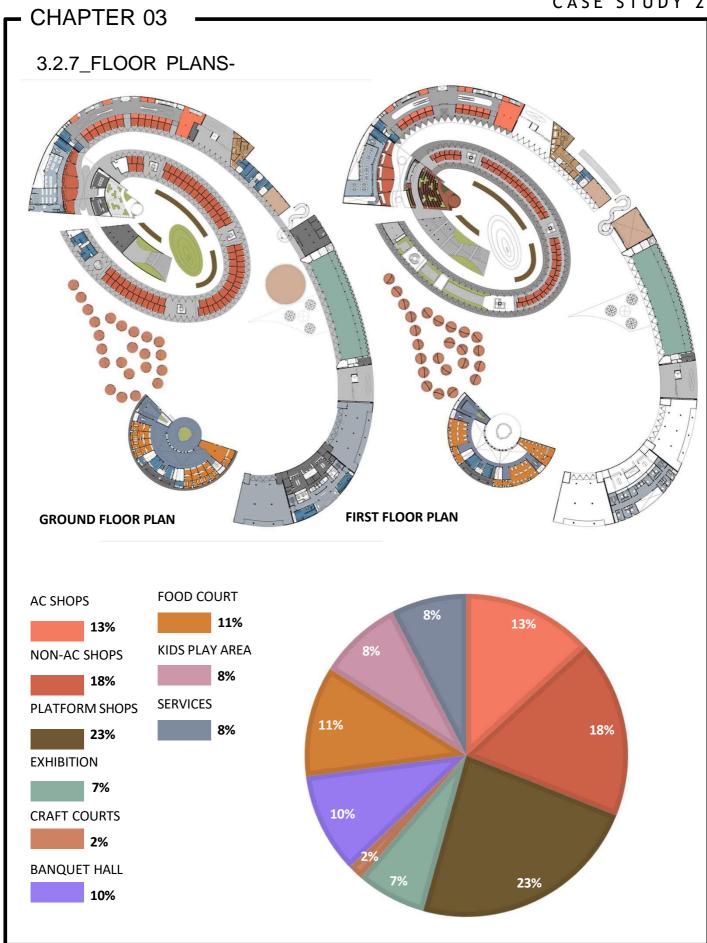
Alambagh ISBT -12 km

3.2.5_CONCEPT-

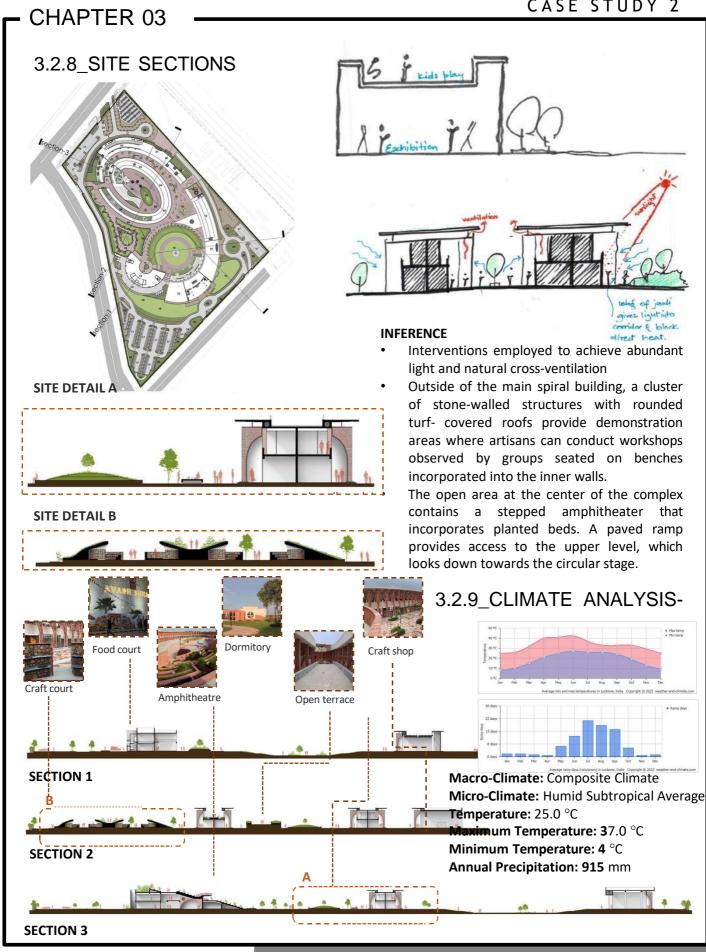


- An elliptical form enables a smooth corner free circulation.
- Its vocabulary is contemporary yet rooted in history and traditions of the past
- The original concept, was to contribute to the creation of an iconic structure for the city of Nawabs and the people of Lucknow.





Tite: GLOBAL ART VILLAGE



3.2.10_ARCHITECTURAL CHARACTERISTIC

MATERIALS USED



RED AGRA SANDSTONE

BRICKS

STEEL REINFORCEMENT

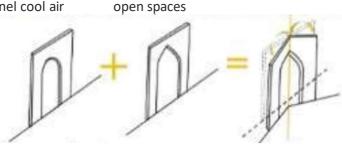
ARCHITECTURAL ELEMENTS USED



JAALIS- Perforated stone jali screens traditionally used to channel cool air



ARCHES- Used for internal shading in semi GRASS ROOF- To keep the lower surface cool





ARCH- It is an important architectural element of the city Lucknow, each arch allows entry into the corridor of the ground floor

The steel structure is cladded with Red Agra Sandstone in a jaali pattern with motifs inspired by the renowned Lucknow embroidery-Chikankari

Craft Court- It is eco-friendly with no chemical paints. Moreover, a green covered roof on top of the shops acts as a natural air conditioner. The Stone is Masonry with Red Agra sandstone used a cooling agents.

A Cluster of Stone walled structure with rounded truf covered roofs provide a demonstration area where artisan can conduct workshops observed by groups seated on benches incorporated into inner walls.

3.2.11_INFERENCE











CHAPTER 04 4.1_SPATIAL ORGANIZATION CHART **PUBLIC SPACES SEMI PUBLIC SPACES PRIVATE SPACES DESIGN ADMINISTRATI RECREATIONAL INDUSTRIAL MISCELLANEO ACCOMMODAT ARTS AND** TRAINING AND ON **AMENITIES** WORKSHOP **CRAFT CENTRE** US ION **RESEARCH** TEXTILE HAND BUILDING DIRECTOR'S **DISPLAY** RESTAURANT OFFICE RECEPTION **EMBROIDERY SERVICE OFFICE GALLERY AREA** WORKSHOP **SPACES** CONFERENCE MAINTENANCE **CURATORS'** WAREHOUSE CRAFT BAZAAR V.I.P OFFICE AREA ROOM **ROOM STORAGE** MULTI DIGITAL PRODUCT STAFF ROOM **STAFF** PURPOSE HALL **STUDIO** DEVELOPMENT **CONFERENCE TRAINEE** STORAGE AREA TRAINING HALL ROOM HOSTEL SEMINAR HALL LIBRARY ARTISAN **TOTAL AREA DISTRIBUTION** SECURITY AND MAINTENANCE MONITORING WORKSHOP 59 % DESIGN TRAINING AND RESEARCH 13% **DOCUMENTATI** HOUSEKEEPING AMENITIES 11% ON AND **CENTRE RECORD** 13% ADMINISTRATION 7% ACCOMODATION 6% ART AND CRAFT CENTRE 4%

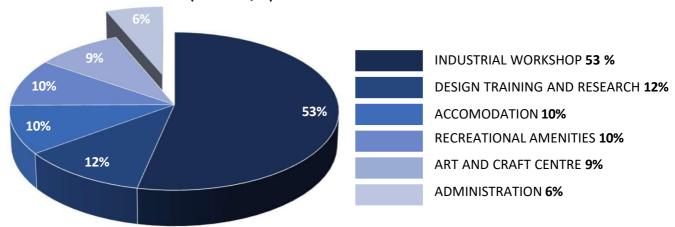
4.2_SITE DETAILS

SR.NO FUNCTIONAL AREA	CASE STUDY 1	CASE STUDY 2		LITERATURE STUDY		STANDARDS/ NORMS	PROPOSED REQUIREMENT
	National Craft Museum	Uttarayan Art Centre	CFC AGRA	CFC BAREILLY	CFC SAHARANPUR		
1SITE DETAILS							
2PLOT AREA	5 Acre (20234 sq.m)	8 Acre (32374 sq.m)	0.6 Acre (2534 sq.m)	0.57 Acre (2311 sq.m)	2.3 Acre (9631.5 sq.m)		5.05 Acre (20477.09 sq.m)
3PREMISSIBLE F.A.R	-			-	-		1
4ACHIVED F.A.R	0.9	0.1	0.3	0.3	0.3		0.5
5GROUND COVERAGE (%)	30%	10%	20%	30%	30%		30%
6GROUND COVERAGE (SQ.M)	6800	3638	556	678	3634		6143
7TOTAL COVERED AREA	18500	3638	800	678	3634		10192.3
8BUILDING HEIGHT	6 M	3 M	6 M	3 M	3 M		
9USER	400		-		-		450

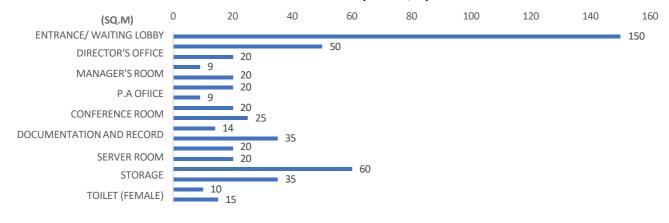
4.3 ADMINISTRATION BLOCK

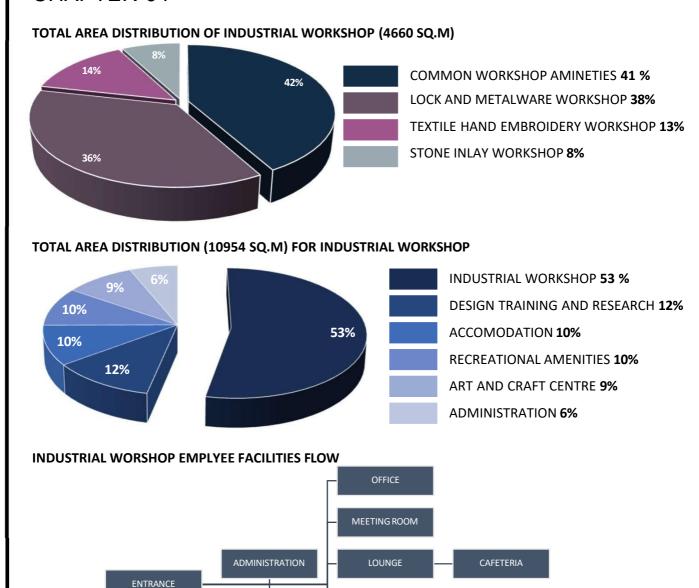
R.NO FUNCTIONAL AREA			CASE STUDY 1		STANDARDS/ NORMS		PRO	REMARKS		
		1	lational Craft Museur	n						
	NO	AREA (SQ.M)	TOTAL AREA (SQ.M)	USER CAPACITY	AREA (SQ.M)	NO	AREA (SQ.M)	TOTAL AREA (SQ.M)	USER CAPACITY	
ADMINISTRATION						П				
A.1 ENTRANCE/ WAITING LOBBY	1	250	250	100	0.5/ per person	1	150	150	300	as per requireme
A.2 RECEPTION	1	30	30	20	1/ per person	1	50	50	50	Time Saver_page
A.3 DIRECTOR'S OFFICE	1	30	30	1	20	1	20	20	1	Time Saver page
A.4 P.A OFIICE	1	20	20	1	4.25	1	9	9	1	Time Saver_page
A.5 TOILET	1	5	5	1	2	1	5	5	1	Time Saver_page
A.6 MANAGER'S ROOM	-	-	-	-	1.4/ per person	1	20	20	2	Time Saver_page
A.7 TOILET	-	-	-	-	2	1	5	5	1	Time Saver_page
A.8 MAINTENANCE ROOM	1	20	20	2	-	1	20	20	1	
A.9 P.A OFIICE	1	20	20	1	4.25	1	9	9	1	Time Saver_page
A.10 TOILET	1	12	12	1	2	1	5	5	1	Time Saver_page
A.12 ACCOUNTANTS ROOM	-	-	-	-	-	1	20	20	3	
A.13 CONFERENCE ROOM	2	100	200	-	2.5/ Per person	1	25	25	10	Time Saver page
A.14 SEMINAR HALL	1	200	200	50	2/ per person	1	14	14	7	Time Saver
A.15 DOCUMENTATION AND RECORD	2	20	40	-	0.5/ per person	1	35	35	70	Time Saver
A.16 SECURITY MONITORING ROOM	1	20	20	1	-	1	20	20	1	Case Study
A.17 SERVER ROOM	1	20	20	1	-	1	20	20	1	Case Study
A.18 GUARD ROOM	3	15	45	3	13	3	20	60	6	Time Saver_page
A 19 STORAGE	5	200	1000	- NEW	23	1	35	35	2	Time Saver_page
A.20 TOILET (MALE)	-	-	-	-	2 WC/35 Person+ 1 Urinal/25 person	1	10	10	25	Time Saver
A.21 TOILET (FEMALE)			-		2 WC/ 25 person	1	15	15	25	Time Saver
TOTAL AREA						ш		547		

TOTAL AREA DISTRIBUTION (10954 SQ.M) FOR ADMINISTRATION BLOCK



TOTAL AREA DISTRIBUTION OF ADMINISTRATION BLOCK (547 SQ.M)





FIRST AID

LOCKER ROOM

RECREATIONAL





MANUFACTURING AND WAREHOUSE

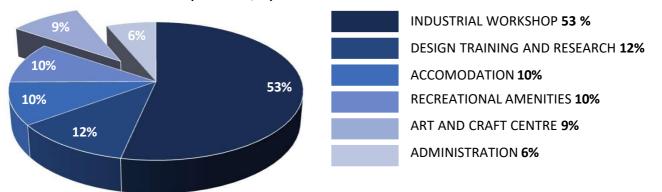
4.5_ARTS AND CRAFT

NO FUNCTIONAL AREA		CASE STUDY 1			CASE STUDY 2 STANDARDS' NORMS				PR0	REMARKS			
		National Craft Museum			Ultarayan Art Centre								
	NO	AREA (SQ.IV	I) TOTAL AREA (SQ.M	LEER CAPACITY	/NO	AREA (SQ.M	TOTAL AREA (SQ.M)	AREA(SQ.M)	NO	AREA (SQ.M)	TOTAL AREA (SQ.M	LESER CAPACITY	
CARTANDORAFTCENTRE				4050					П				
C.1 DSPLAY GALLERY AREA	26	340	8840	4000	2	125	250	-	4	125	500		
C.2 CURATORS OFFICE AREA	1	300	300	50	1	120	120	-	1	15	15		
C.3 DIGITAL STUDIO	-	-	-	-	2	120	240	2/perperson	2	54	108		
C.4 STOREAREA	-	-	-	-	1	30	30	35	4	25	100	48	Asper Requirem
C.5 WASHROOM	-	-	-	-	2	14	28	-	2	40	80		
TOTALAREA 803													

TOTAL AREA DISTRIBUTION OF ARTS AND CRAFT CENTRE (338 SQ.M)



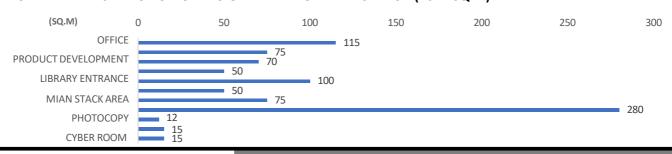
TOTAL AREA DISTRIBUTION (10954 SQ.M) FOR ATRS AND CRAFT CENTRE



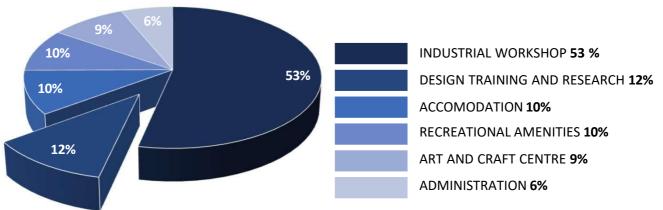
4.6_DESIGN TRAINING AND RESEARCH

R.NO FUNCTIONAL AREA			CASE STUDY 1		STANDARDS/ NORMS	PROPOSED REQUIREMENT					
		N	lational Craft Museun	n							
	NO	AREA (SQ.M)	TOTAL AREA (SQ.M)	USER CAPACITY	AREA (SQ.M)	NO	AREA (SQ.M)	TOTAL AREA (SQ.M)	USER CAPAC		
D DESIGN TRAINING AND RESEARCH											
D.1 OFFICE		-	-	-	5	1	115	115			
D.2 CONFERENCE ROOM	-	-	-	-	2.5/per person	1	75	75	1		
D.3 PRODUCT DEVELOPMENT	- -	-	-	-	-	1	70	70	1		
D.4 TRAINING HALL	-	-	-	-	1/ per person						
D.4.1 COMPUTER LAB	-	-		-	-						
D.4.2 DRAWING ROOM	- 1	-	-	-	-	3	50	150			
D.4.3 A/V ROOM	-	-	-	-	-						
D.5 LIBRARY	1	200	200	50	-						
D.5.1 ENTRANCE	- -	-	-	-	1/ per person	1	100	100	1		
D.5.2 ISSUE COUNTER	-	-	-	-	-	1	50	50	48		
D.5.3 MIAN STACK AREA	- 1	-	-	-	92 at 10000 vol.	1	75	75	1		
D.5.4 READING AREA	1	200	200	50	2.8/ per person	1	280	280	1		
D.5.5 PHOTOCOPY	- -	-	-	-	-	1	12	12	1		
D.5.6 LIBRARIAN'S OFFICE	1	20	20	1	-	1	15	15	1		
D.5.7 CYBER ROOM	1	30	30	-	-	1	15	15			
D.6 TOILET (MALE)	- 1	-	-	-	1 per 40 person	1	35	35			
D.7 TOILET (FEMALE)	- -	-	-	-	1 per 25 person	1	20	20]		
TOTAL AREA								1012			

TOTAL AREA DISTRIBUTION OF DESIGN TRAINING AND RESEARCH (1012 SQ.M)



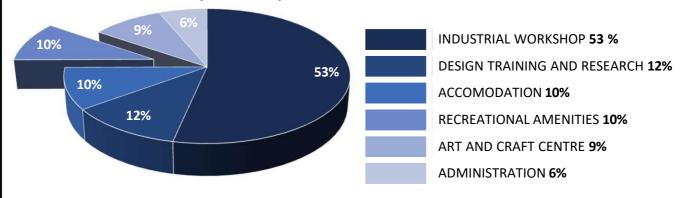




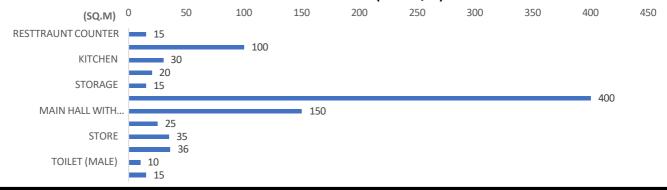
4.7_RECREATIONAL AMENITIES

		N	ational Craft Museun	n l								
	NO	AREA (SQ.M)	TOTAL AREA (SQ.M)	USER CAPACITY	AREA (SQ.M)	NO	AREA (SQ.M)	TOTAL AREA (SQ.M)	USER CAPAC			
ERECREATIONAL AMENITIES					<u> </u>							
E.1 RESTRAUNT	1	250	250	60					50			
E.1.1 COUNTER	-	-	-	-		1	15	15				
E.1.2 DINNING AREA		-	-	-	2/ per person	1	100	100				
E.1.3 KITCHEN	1	25	25	-	30% of dinning	1	30	30				
E.1.4 WASH AREA	-	-	-	-		1	20	20				
E.1.5 STORAGE	1	15	15	-	50% of kitchen	1	15	15				
E.2 CRAFT SHOPS/ BAZAAR	1	100	100	25		4	100	400				
E.3 MULTI PURPOSE HALL	1	500	500	250								
E.3.1 MAIN HALL WITH STAGE	-	-	-	-	1.5/ per person	1	150	150	100			
E.3.2 PROJECTION CONTROL ROOM	1	25	25	-		1	25	25				
E.3.3 STORE	-	-	-	-	35	1	35	35				
E.3.4 GREEN ROOM	1	18	18	-		2	18	36				
E.4 TOILET (MALE)						1	10	10				
E.5 TOILET (FEMALE)	-	-	-	-		1	15	15				

TOTAL AREA DISTRIBUTION (10954 SQ.M) FOR RECREATIONAL AMENITIES



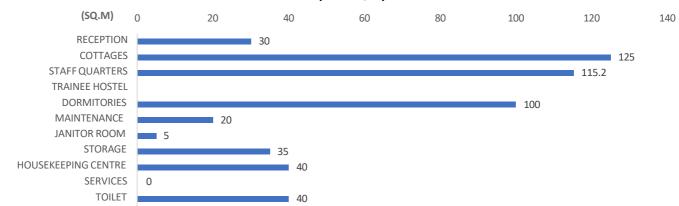
TOTAL AREA DISTRIBUTION OF RECREATIONAL AMENITIES (851 SQ.M)



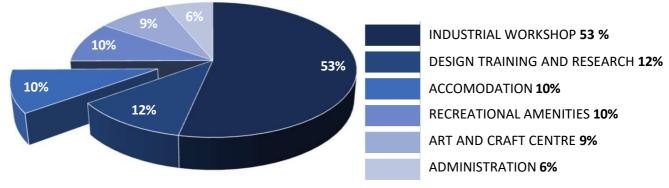
4.8_ACCOMODATION

FUNCTIONAL AREA			CASE STUDY 1				CASE STUDY 2		STANDARDS/ NORMS	PROPOSED REQUIREMENT				
			National Craft Museum				Uttarayan Art Centre							
	NO	AREA (SQ.M)	TOTAL AREA (SQ.M)	USER CAPACITY	NO	AREA (SQ.M)	TOTAL AREA (SQ.M)	USER CAPACITY	AREA (SQ.M)	NO	AREA (SQ.M)	TOTAL AREA (SQ.M)	USER C	
FACCOMODATION														
1 RECEPTION	-				- 1	30	30		1.5/ per person	1	30	30		
2COTTAGES	-			-	6	112	672	3/ per cottage	1 room of 12.5 with W.C and Bathroom		40	280	1	
STAFF QUARTERS	-	-	-	-					1 room of 9.6 with W.C and Bathroom	12	9.6	115.2	1	
ATRAINEE HOSTEL										1	200			
.1 COMMON ROOM					1	20			1.5/ per person	1	30	1 '	1	
2 DINNING/ RECREATIONAL					1	16			2/ per person	1	60	1 '	(
1.3 BEDROOM SPACE									2.2/ per person	4	11	1 '	20	
.4 TOILET (MALE)									1 W.C+ 1 Urinal+ 2 wash basin+1	1	20	200		
	-			-	2	16	32		shpwer/ per 10 boys				1	
4.5 TOILET (FEMALE)									2 W.C+2 wash basin+ 2 Shower/ per 10	1	30	1	1	
									girls				(
F.5 DORMITORIES	-			-	4	24	96		2/per person	5	20	100		
F.6HOUSE PARENTS APARTMENT									50	1	50	50		
F.7 MAINTENANCE	-			-						1	20	20		
F.8 JANITOR ROOM	1	20	20	-						1	5	5		
F.9 STORAGE	5		500	-						1	35	35		
.10HOUSEKEEPING CENTRE	1	20	20	-	1	40				1	40	40		
	-	- '		-										
TOTAL AREA	47	47										875.2		
CIRCULATION (25%)												2190.8		
TOTAL COVERED AREA		$\overline{}$			$\overline{}$				A+B+C+D+E+F X 0.25	_		10954	$\overline{}$	

TOTAL AREA DISTRIBUTION OF ACCOMODATION (875 SQ.M)

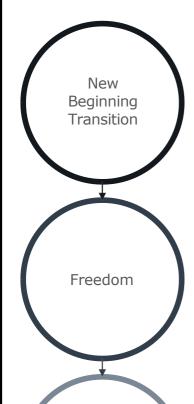


TOTAL AREA DISTRIBUTION (10954 SQ.M) FOR ACCOMODATION



4.9_SITE SERVICES

I.NO FUNCTIONAL AREA			CASE STUDY 1		STANDARDS/ NORMS					REMARKS
		1	National Craft Museum	n						
	NO	AREA (SQ.M)	TOTAL AREA (SQ.M)	USER CAPACITY	AREA (SQ.M)	NO	AREA (SQ.M)	TOTAL AREA (SQ.M)	USER CAPACITY	
G SERVICES										
					45 l/ per day+ 30% for fire fighting+ 10%	1	3.64	3.64		1L= 0.001 cu.m,
					for irrigation					45x0.001= 0.045 450x 0.045= 20.2
G.2 WATER TANK	- -	-								L (sq)= 20.25/33=
G.3 ELECTRICAL ROOM	12				1/ per 500 sq.m	21	21	441		
G.4 FIRE CONTROL ROOM	1	12			12	1	12	12		
G.6 DG SET	1	48	48		200kw = 140 kva	1	20	20		
G.7 BOILER/ PLANT ROOM					20	2	30	60		Specification as Aadeetya Proje stainless steel ind
										steam boiler
G.8 TRANSFORMER					15	1	50	50		Steam Duller
G.10LOADING/ UNLOADING AREA		-			70	4	70	280		Specification as CONTAINER 20 TATA ACE
TOTAL AREA						П		866.64		



•Traditional crafts: Mathura is known for its rich tradition of arts and crafts, including intricate woodcarvings, marble sculptures, and colourful paintings.

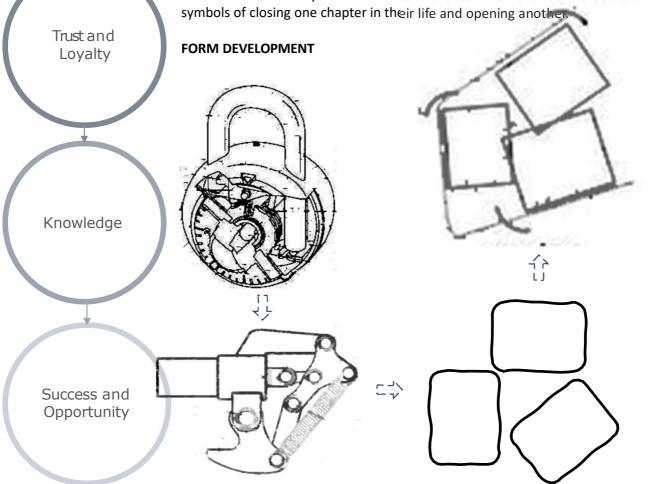
•Cultural heritage: Mathura's cultural heritage is celebrated through its vibrant festivals, folk music, and dance forms. From the lively raas leela performances depicting Krishna's divine dance with the gopis to the colourful Holi celebrations that engulf the city in a riot of colours, Mathura's cultural vibrancy is truly unparalleled.



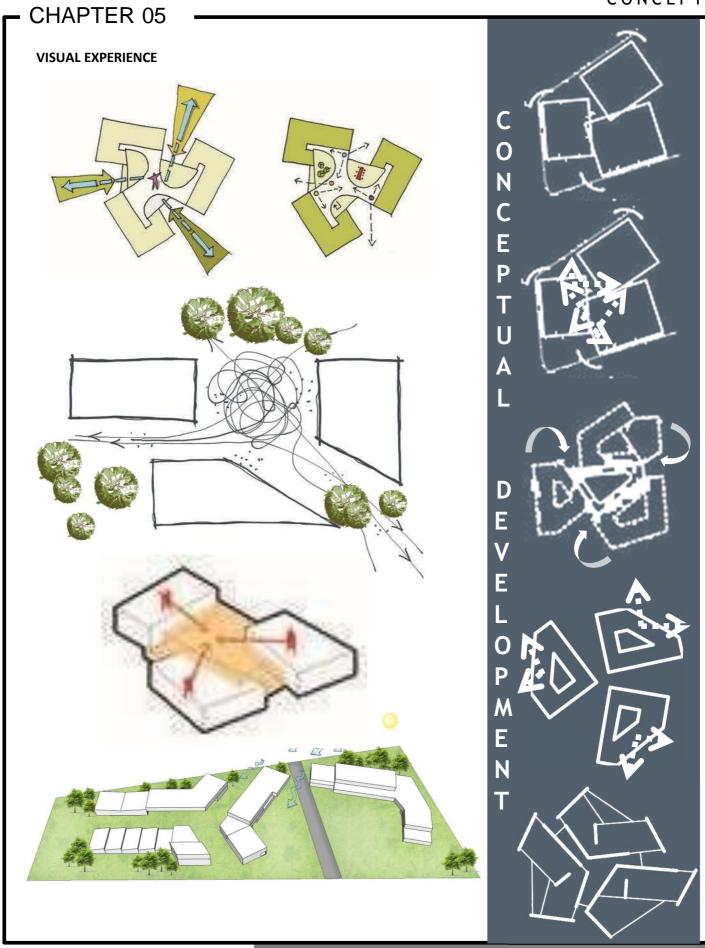
SOURCEhttp://odopup.in/en/article/districtprofile-aligarh

PHILOSOPHY

Locks and keys have a simple, obvious function—to lock and unlock doors. Yet when we think of locks and keys, we don't only think of doors; we think of the ways these objects can have symbolic meaning in our lives. As such, some people take the two as a symbol of freedom and confinement. Others see them as symbols of closing one chapter in their life and opening another.

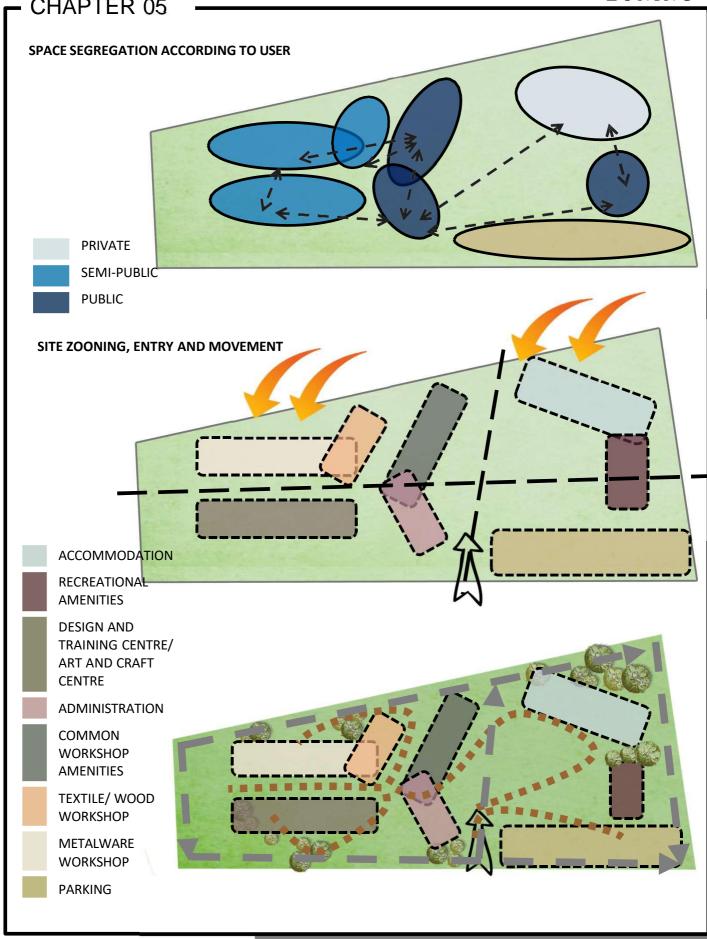


Tite: GLOBAL ART VILLAGE

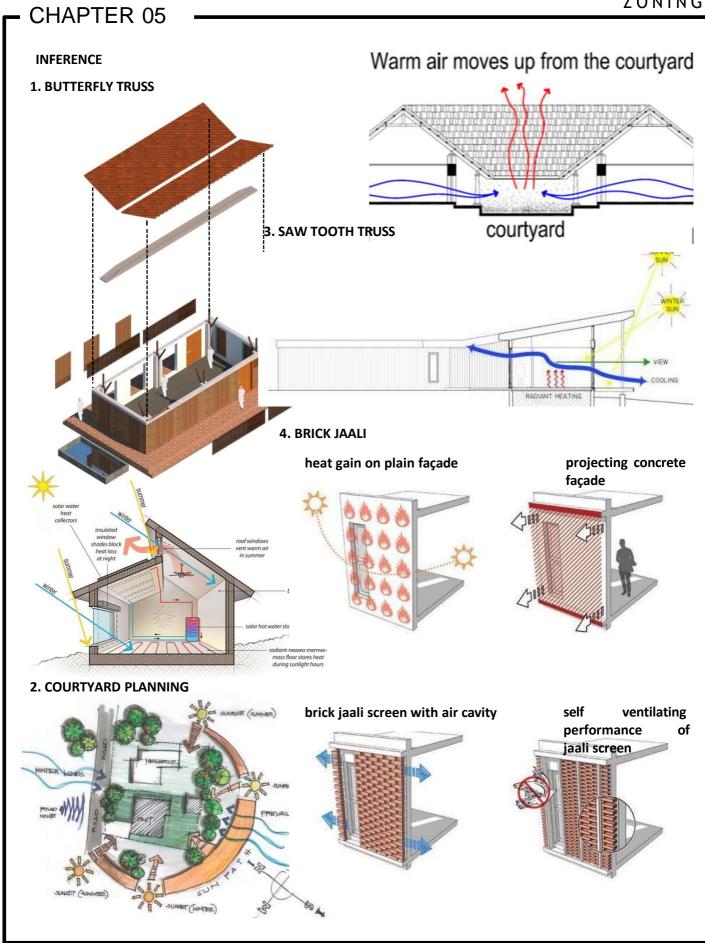


Tite: GLOBAL ART VILLAGE

ZONING CHAPTER 05



Tite: GLOBAL ART VILLAGE



Tite: GLOBAL ART VILLAGE

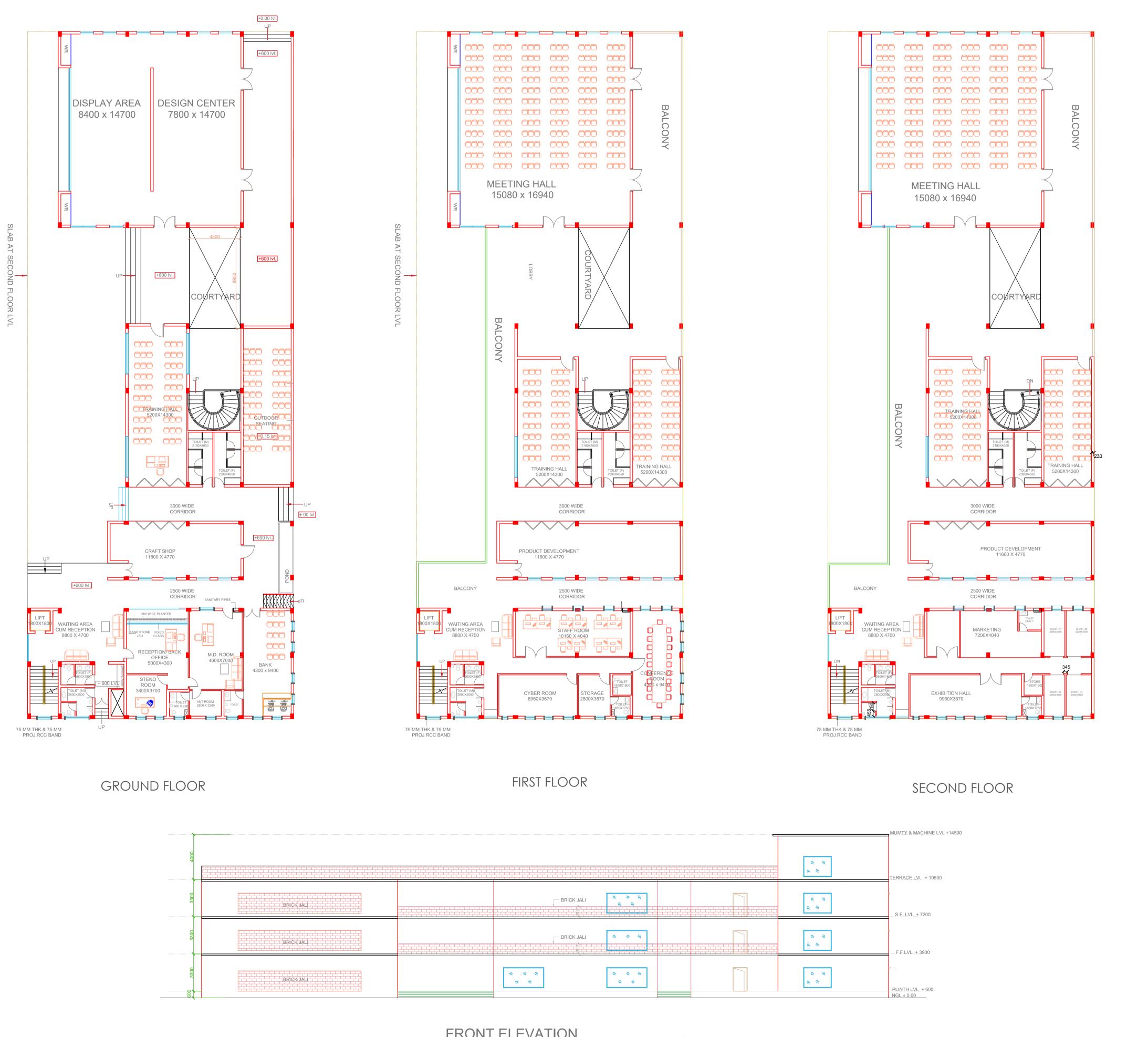
BIBLIOGRAPHY

The following book references have been used in this thesis -

- ARCHITECT'S DATA By Ernst Neufert
- NATIONAL BUILDING CODE 2016
- VRINDAVAN DEVELOPMENT AUTHORITY BYELAWS
- CITY DEVELOPMENT PLAN OF VRINDAVAN

The following website references have been used in this thesis -

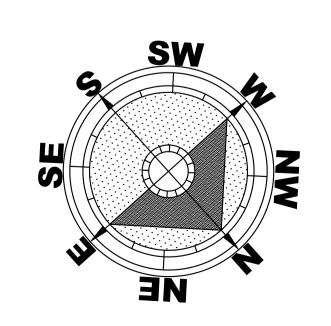
- Weatherspark.com
- Google images
- Google maps
- Google earth
- Times of India newsletter
- Census 2011
- Issu.com



RESEARCH INSTITUTE

ALL DIMENSION ARE IN MM

SCALE = 1 : 200



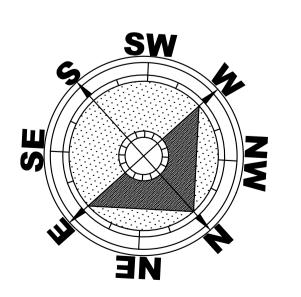
GROUND FLOOR PLAN

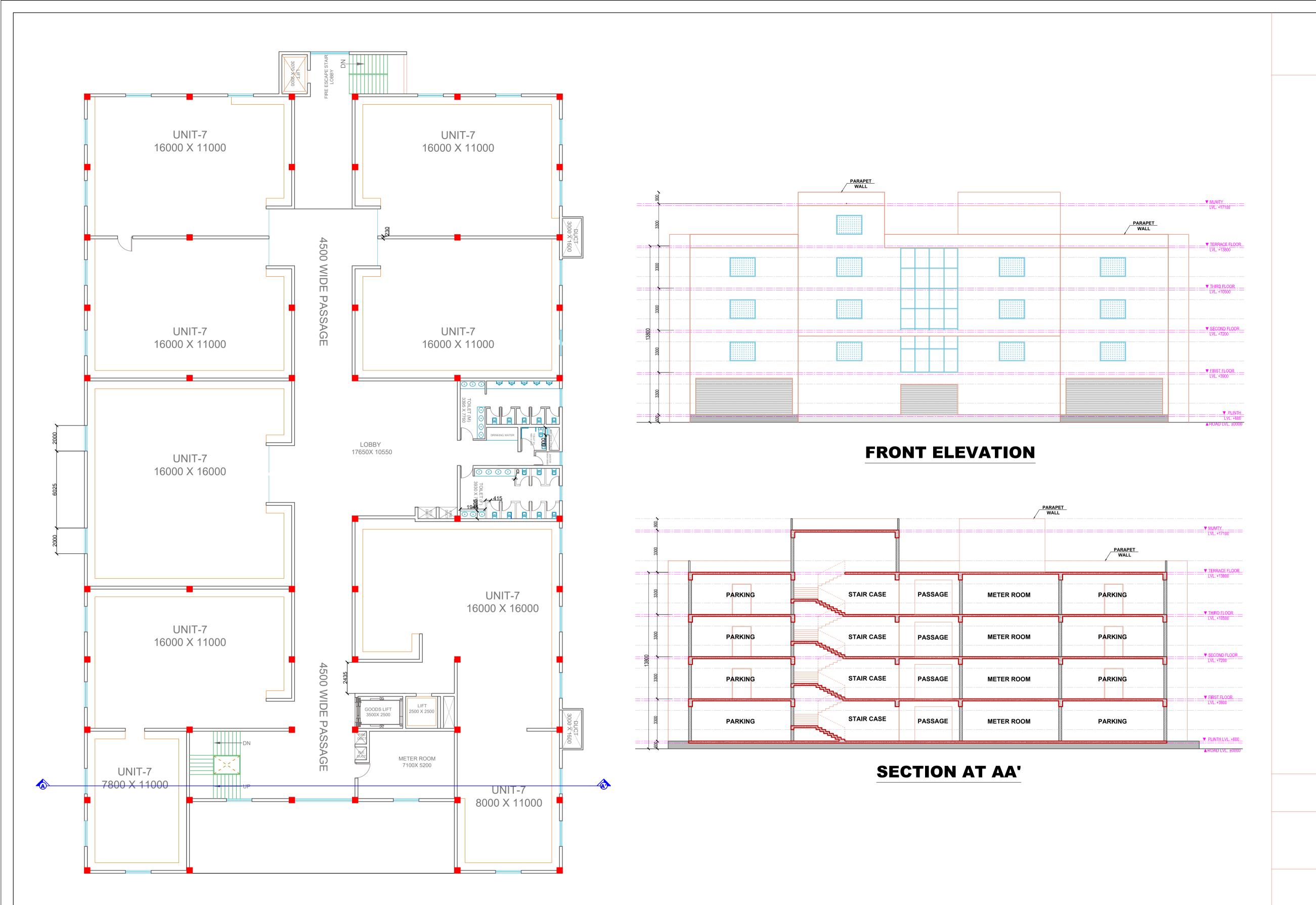
FIRST FLOOR PLAN



ALL DIMENSION ARE IN MM

SCALE = 1:200



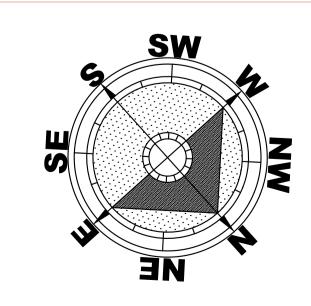


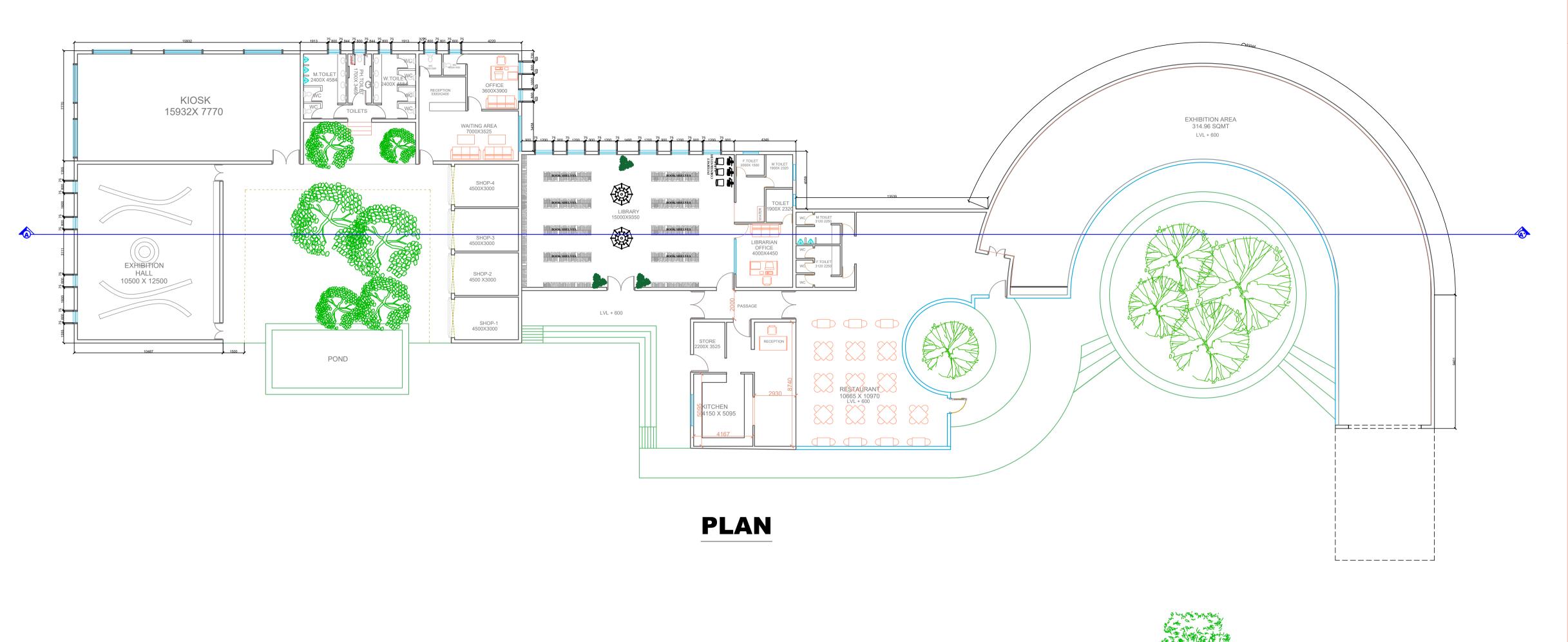
TYPICAL SECOND AND THIRD FLOOR PLAN

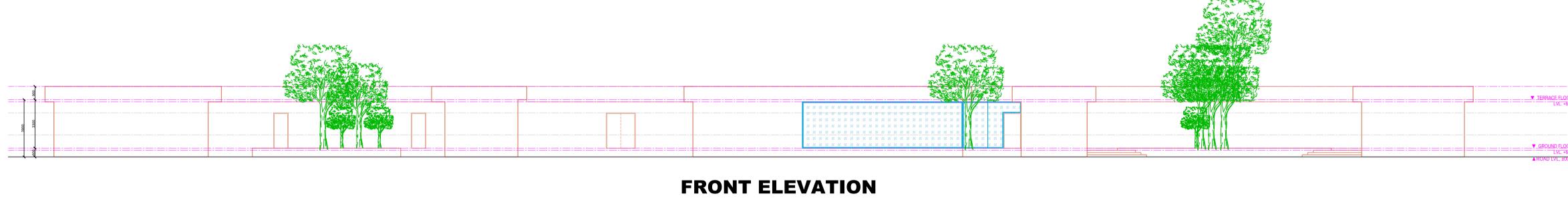
CRAFT FACTORY

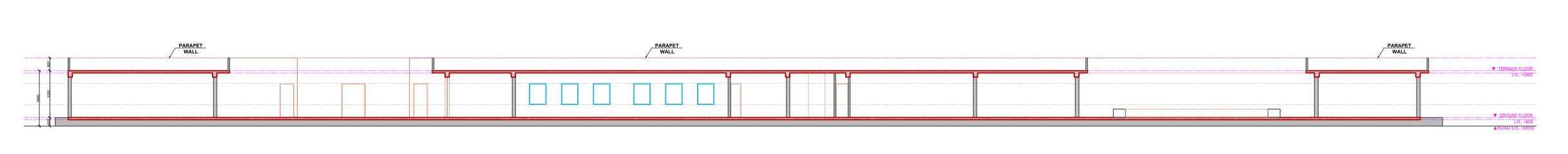
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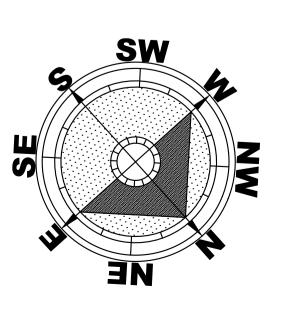




SECTION AT AA'

ALL DIMENSION ARE IN MM

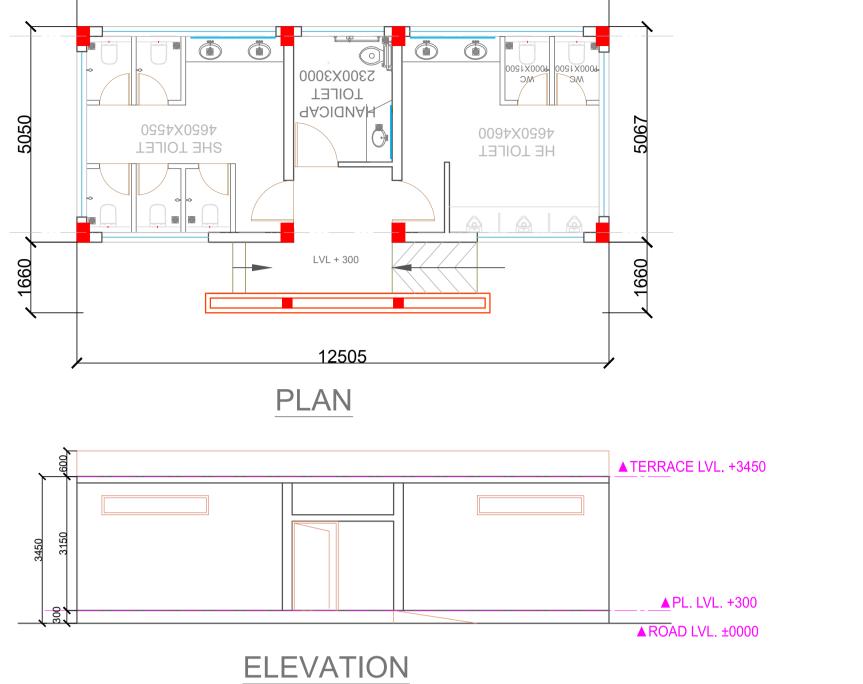
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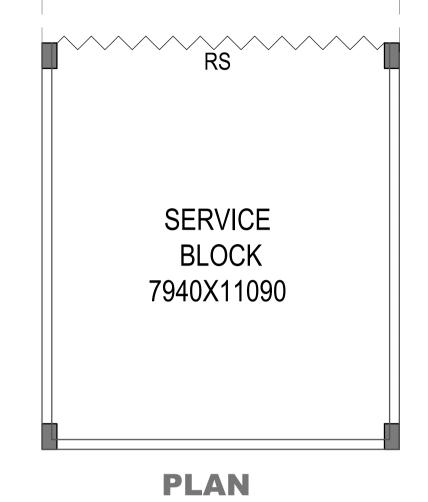


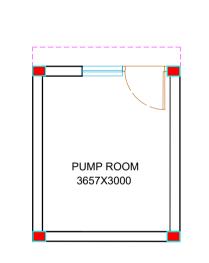
COTTAGE TOILET TOILET 1800 X 4500 1800 X 4500 BED ROOM 4412 X 4500 BED ROOM 4412 X 4500 LOBBY 5800 X 11680 LVL + 600 LOBBY & PANTRY 4412 X 3682 LOBBY & PANTRY 4412 X 3682 PLAN PARAPET WALL ▼ TERRACE FLOOR **FRONT ELEVATION** ▼ TERRACE FLOOR LVL. +3900

PUBLIC TOILET

12500





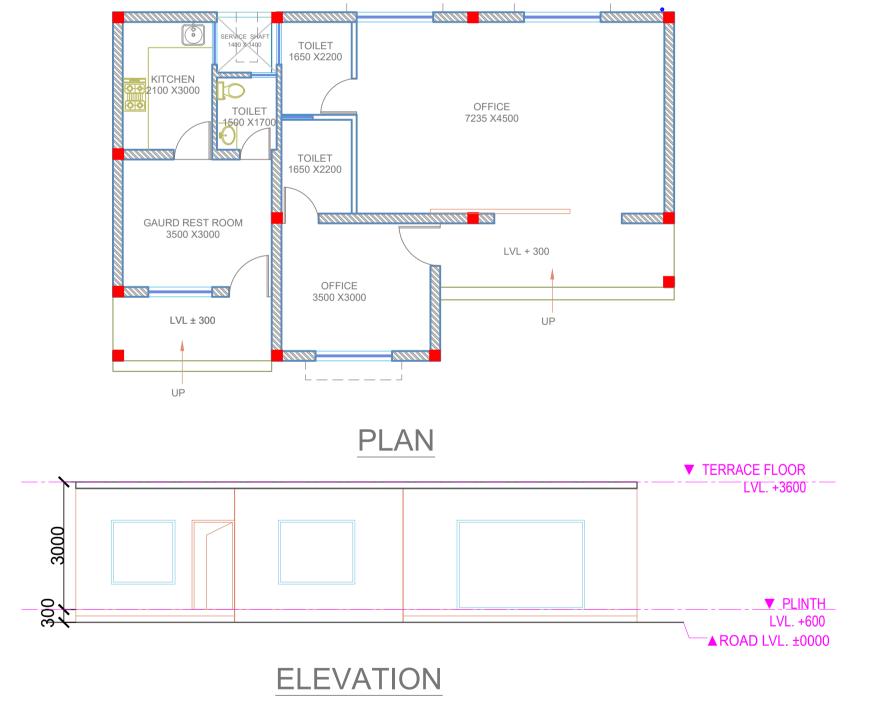




V PLINTH LVL. +600

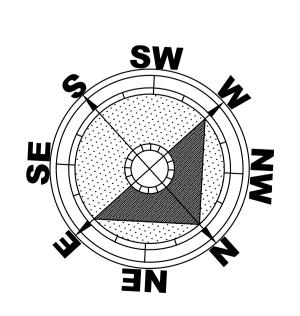
V PLINTH
LVL. +600

▲ ROAD LVL. ±0000

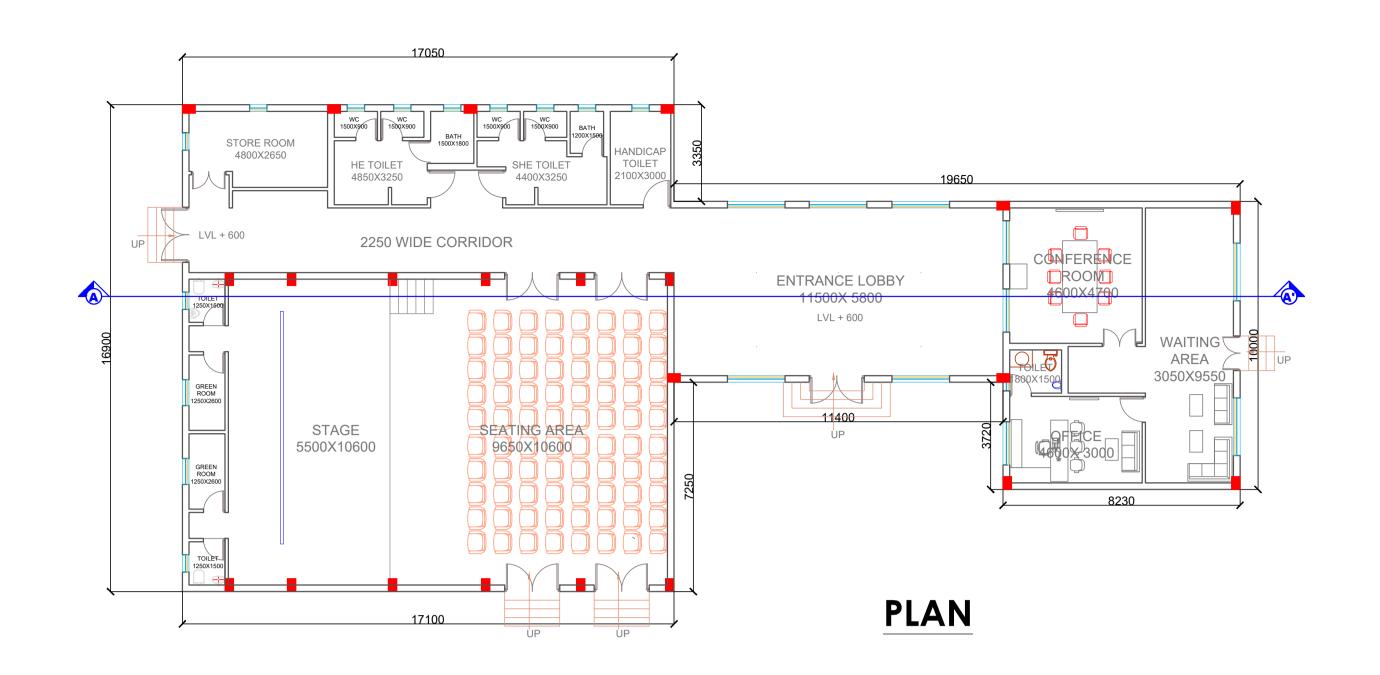


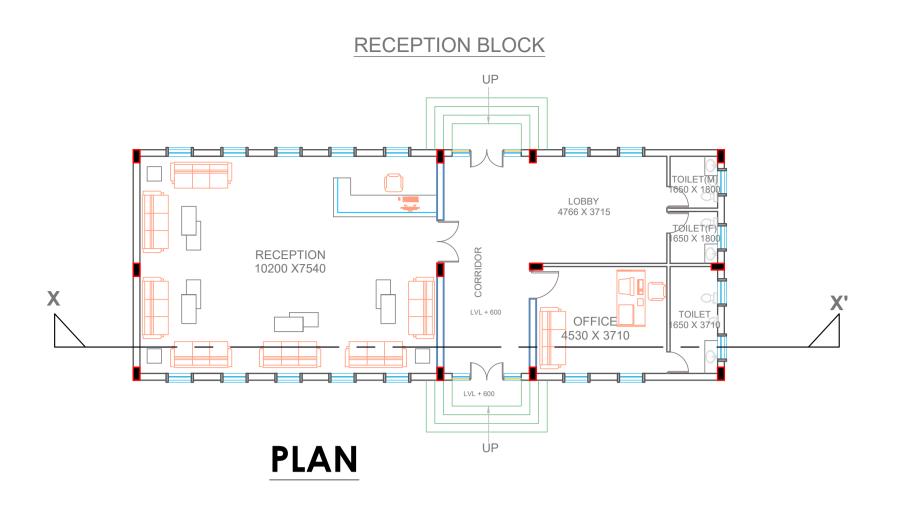
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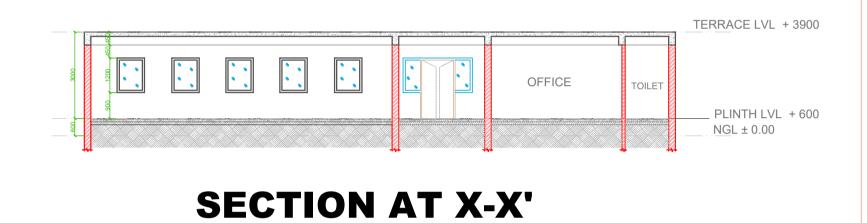


SECTION AT AA'

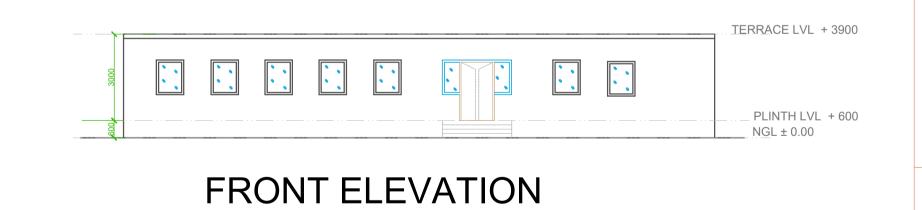


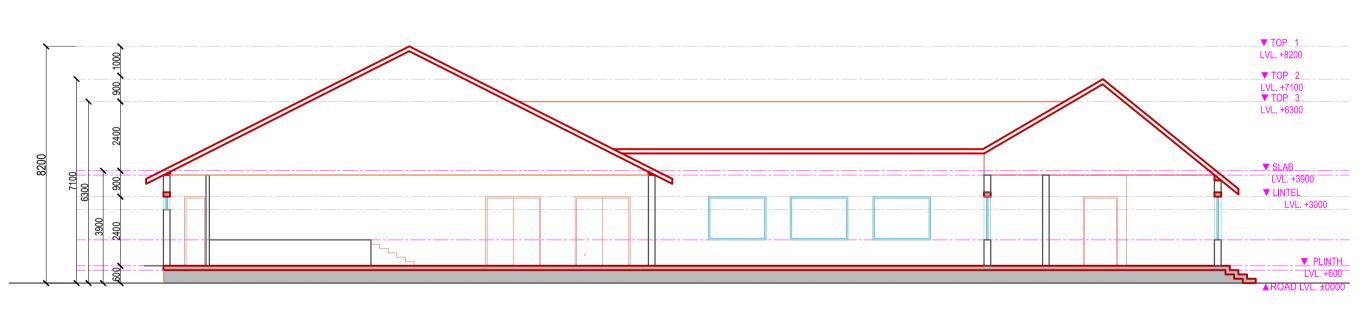




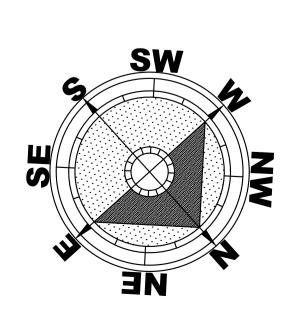


FRONT ELEVATION





SECTION AT AA'



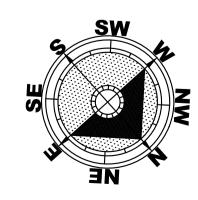
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WORKING DWG

ALL DIMENSION ARE IN MM

SCALE = 1:200

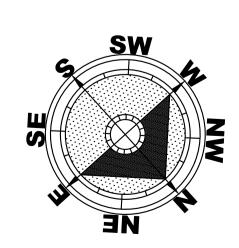


ELECTIVE

WORKING DWG

ALL DIMENSION ARE IN MM

SCALE = 1:200



TOILET 1800 X 4500

BED ROOM 4412 X 4500

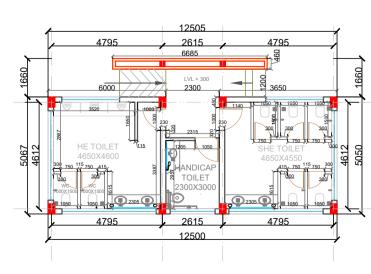
LOBBY & PANTRY 4412 X 3682

LOBBY & PANTRY 4412 X 3682

COLUMN LAYOUT &

CENTER LINE

COTTAGE PLAN



PUBLIC TOILET

