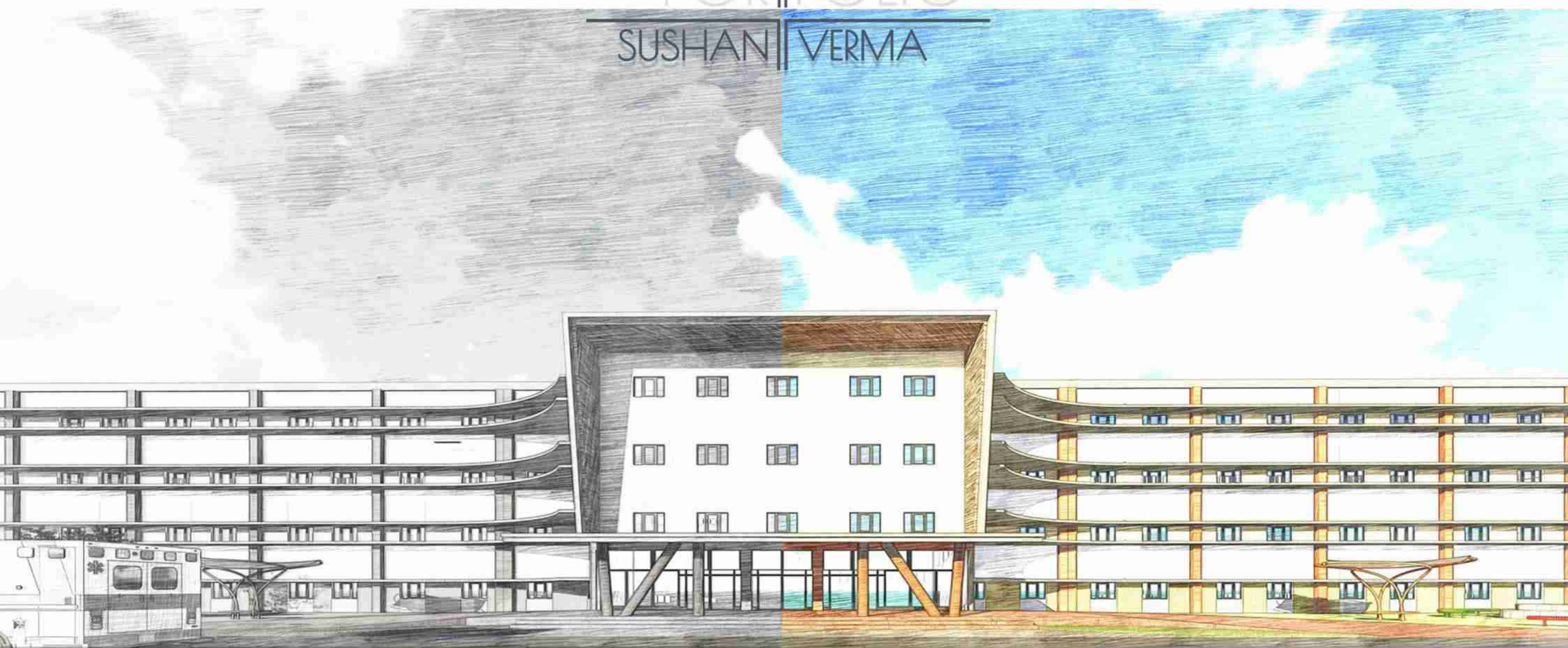


ARCHITECTURE
PORFOLIO

SUSHAN VERMA





SUSHANT VERMA

DOB - 19/Jan/1997

ABOUT ME

Hello. My name is Sushant Verma and I recently graduated in bachelor of architecture from Maulana Azad National Institute of Technology(MANIT) in the city of Bhopal, in India. I am passionate about architecture and design as I believe that it has a very strong impact on the image of a place.

In the previous five years, Architecture changed my way of looking at the world. It gave me a perspective to see things more carefully and responsibly because we are the ones who shape the world. As an architect, I think that I have an opportunity to bring about change in many lives through my architectural ideas.

I am highly motivated to live and work outside of my city. As I look forward to getting involved in the approach, exploration and development of new architectural ideas. Another reason for this is that each place has its own rules and working methods.

CONTACT ME



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9340-268-704



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20 N/2 Bengali Colony, Habibganj, B.H.E.L, Bhopal ,(M.P)
INDIA



EDUCATION

- 2013-18 MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY (MANIT), BHOPAL
Bachelor of Architecture, GGPA- 7.0
- 2013 SCHOOL FOR EXCELLENCE, BHOPAL, (M.P)
12th class - 76.8 %
- 2011 NALANDA PUBLIC SCHOOL, BHOPAL, (M.P)
10th class - 81.5%



WORK EXPERIENCE

- 2017-18 TRAINING
(Dec - May) Design Home Architects, Bhopal
Role : Conceptual design, technical drawing, 3D visualization, Interior design.
- 2015-18 FREELANCING
Graphic Design , Architectural Design



LANGUAGES



HINDI



ENGLISH



SOFTWARE SKILLS



Autocad



Lumion



Sketchup



Vray
sketchup



Adobe
Photoshop



Keyshot



Autodesk
Revit



MS Office



PARTICIPATION

- 2016 Design Competition Of Affordable Housing, (organised by M.P Housing and Infrastructure Development Board)
- 2016 Attended 4th international SPICMACAY Convention held at IIT Guwahati.
- 2016 Attended 2nd international SPICMACAY Convention held at IIT Mumbai.
- 2013 to 2016 MAFFICK and TECHNOSEARCH, Core and creative team Member.
- 2014-15 NASA - RUBENS trophy
- 2014 SPICMACAY, Annual State Convention at bhopal.
Role : Core management team.
- 2014 NASA - GSEN trophy



WORKSHOPS / LECTURES / ACTIVITIES

- 2017 DISSERTATION on Site Planning of a Building.
- 2017 Interactive session with renowned architect Mr. Raj Rewal.
- 2017 Smart city intervention workshop by IIID, Bhopal
- 2015 Interactive workshop organised by Dulux Paints.



WORKSHOPS / LECTURES / ACTIVITIES

- 2015 Guest lecture by renowned architect Mr. Hafeez contractor on High rise buiding
- 2015 Guest lecture by renowned architect Ar. Chitra vishwanath on sustainable management
- 2015 Photography workshop by Ar. Manjunath Shenoy on techniques of natural street and candid photography.



ACADEMIC PROJECTS

- 2017 FIFTH YEAR SEMESTER 9 - Thesis on AllMS at bhatinda, Punjab
- 2016-17 FOURTH YEAR SEMESTER 8 - Mixed use high rise building. SEMESTER 7 - Mixed use high rise Apartment ,Bhopal.
- 2015-16 THIRD YEAR SEMESTER 6 - Shilpgram(a craftsmen village), Kolar Road , Bhopal. SEMESTER 5 - Bus terminus at Ashta, M.P
- 2014-15 SECOND YEAR SEMESTER 4 - Primary Healthcare building, Rajasthan SEMESTER 3 - RESORT .



INTERESTS



Photography



Travelling



Designing



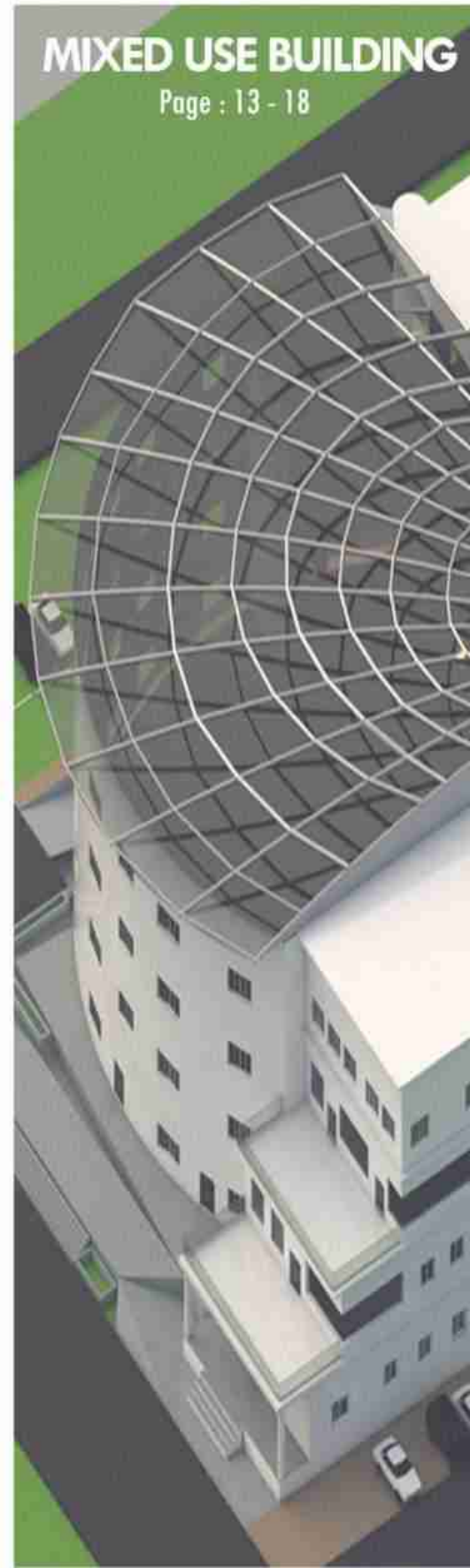
Snooker

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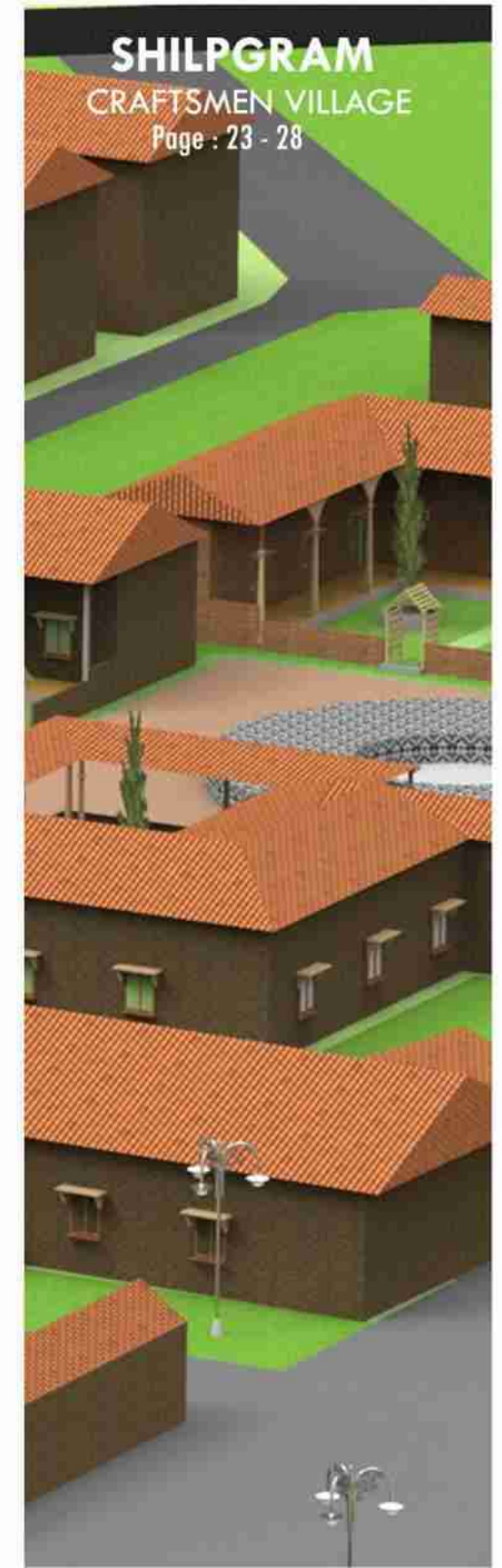
02



03



04



05

LANDSCAPE DESIGN

Page : 29 - 32



06

**INTERNSHIP
SELECTED WORKS**

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07

**MISCELLANEOUS
GRAPHIC DESIGN & OTHERS**

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08

PHOTOGRAPHY

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ALL INDIA INSTITUTE OF MEDICAL SCIENCES (AIIMS)

01

750 BEDDED HOSPITAL

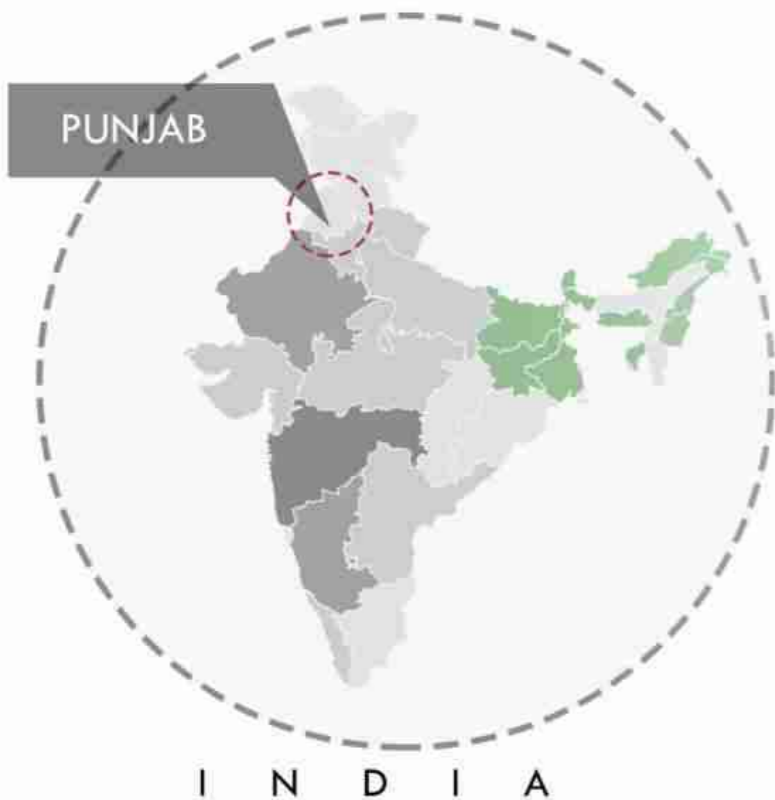
LOCATION
Bathinda, Punjab.

PROJECT TYPE
Instituional

SITE AREA
7,19,216 Sq.m (177.7 Acres)

' The doctor must heal the body, the hospital must heal the mind. '





I N D I A



P U N J A B



PROPOSED SITE AT BATHINDA, PUNJAB

BRIEF

The aim of this project was to design an AIIMS. A 750 Bedded state-of-the-art multi-Specialty /Super-Specialty facilities with captive Hospital. This was a live site proposed by Ministry of health and welfare at bathinda, punjab.

Bathinda district is situated in the southern part of the punjab state in the heart of Malwa region. It is the capital city of Chandigarh and the fifth largest city of Punjab.

LIMITATIONS

In this thesis project, we only had to design hospital building with relevant to site planning.

CHALLENGES

Designing was very challenging as one has to deal with all the internal and external services within the institute's boundary while keeping in mind the patients prophecy. as the entire design is service oriented, the epitome of complexity is to be dealt precisely. hence, the acquisition of the project is quite influntial.

The scale of the project was huge so the connectivity between spaces were the major part of the planning.

ABOUT PROJECT

- Site area** : 177.7 acres (7,19,216 sq.m)
- Ground coverage achieved** : 20,970 sq.m
- Total builtup area** : 83,880 sq.m
- Height of building** : 21.7 m
- soil type** : Sandy soil
- Topography** : Flat land
- climate** : Semi arid climate
- summer temp** : 47.7 C
- Winter temp** : 4.0 C



Connectivity between spaces



Healing with nature



Minimize the use of artifical light



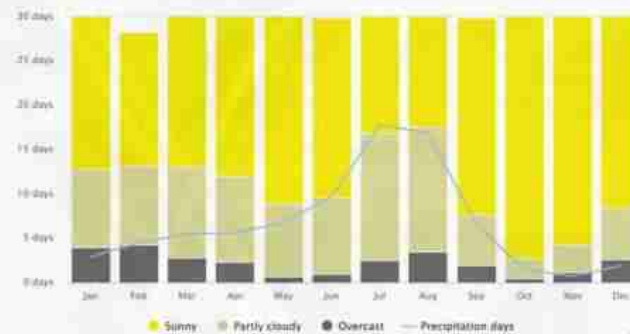
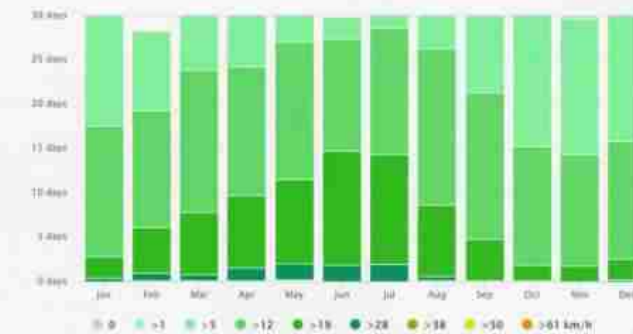
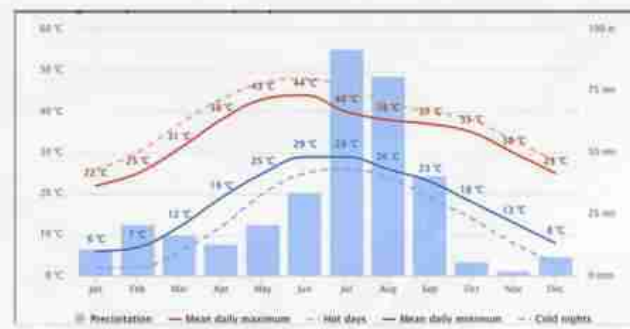
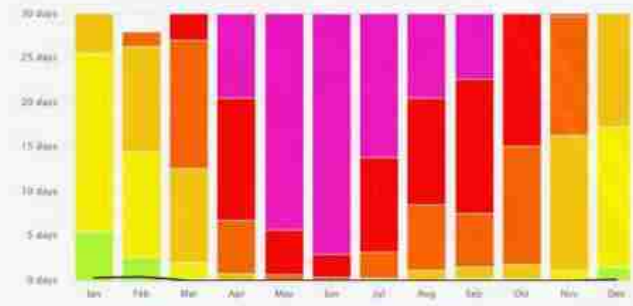
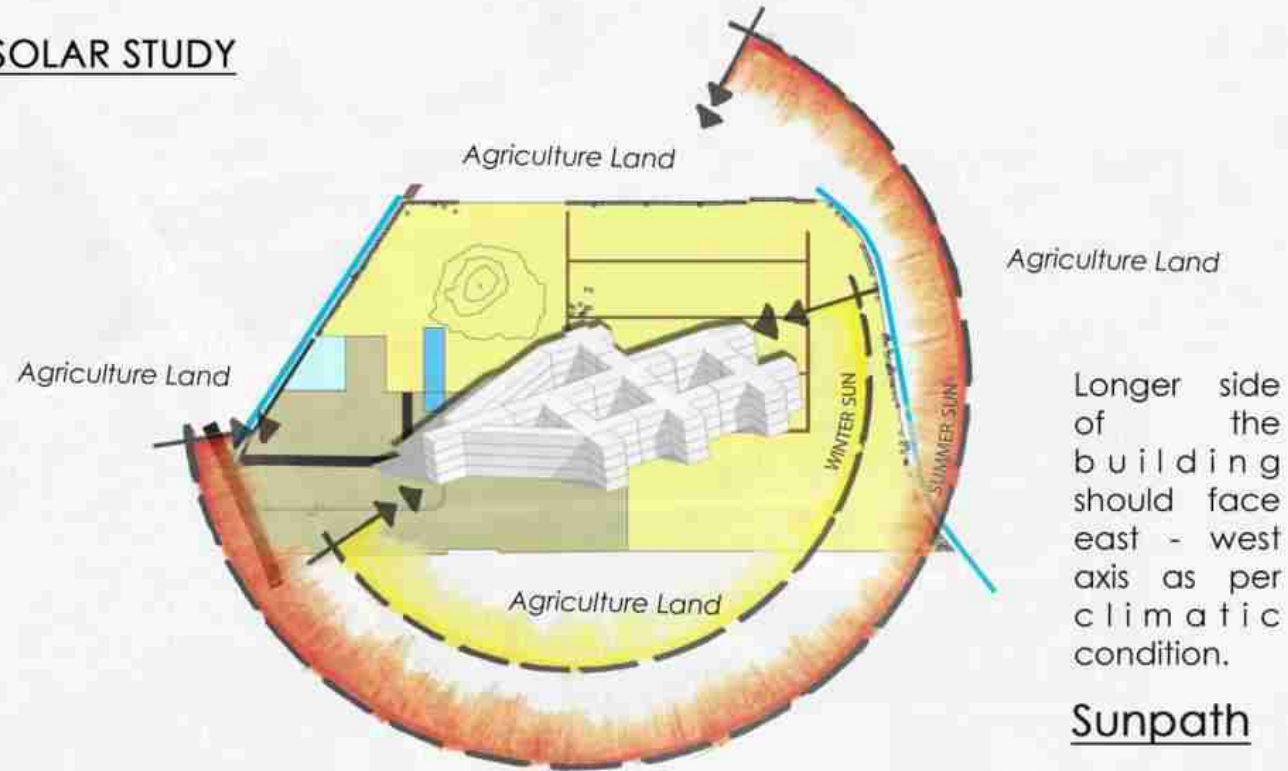
Human comfort

SITE AND CLIMATE ANALYSIS

Site is surrounded by agricultural land from three sides.



SOLAR STUDY



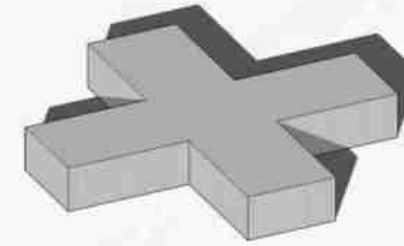
CONCLUSION

- * South facade receives direct sunlight throughout the year. A permanent shading strategy may be necessary.
- * Passive cooling may be explored. To manage solar heat gain along the southern axis, vegetation that sheds leaves in the winter months may be planted as a membrane between the building and direct sunlight.
- * Solar panels may be placed facing the south to maximize use of any direct sunlight throughout the year.

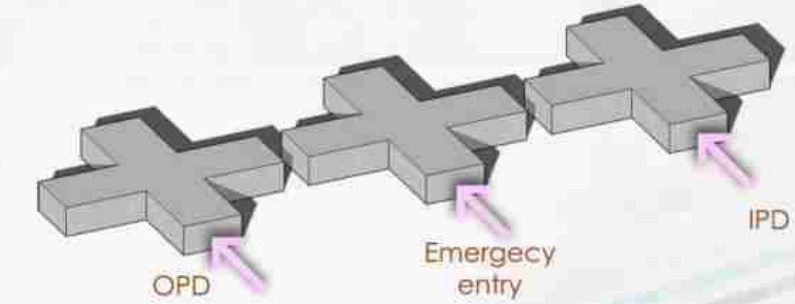
CONCEPT

The concept of this Design was mainly focused on "Healing with nature". Research shows that a well designed building can actually accelerate the curing process. Increasingly therefore, the design was focused on green strategies which can enhance the positive impacts on patients and staff in hospital.

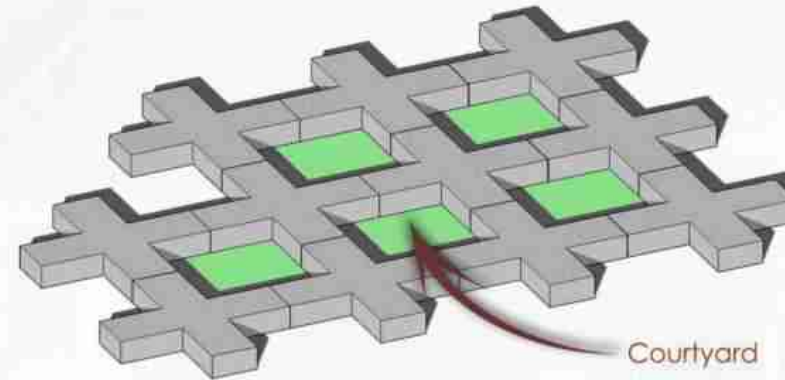
The scale of the hospital was huge, So it was difficult to provide natural light in every part of the building. To resolve this problem, Courtyards are provided which fulfill both, the need of the natural light and the garden.



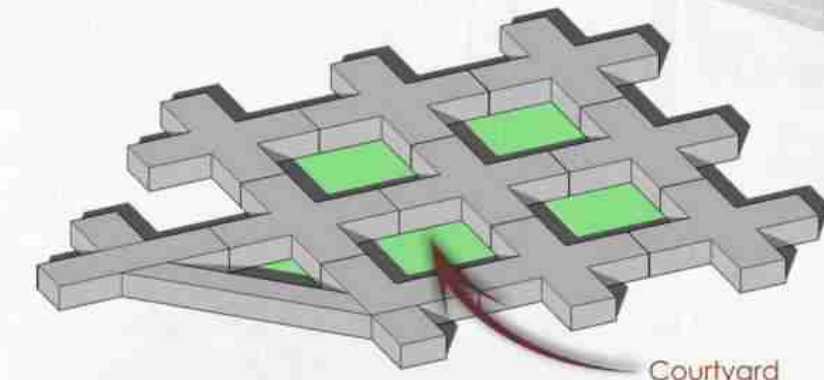
The initial design evolves from the Red cross symbol which also depicts Medical services.



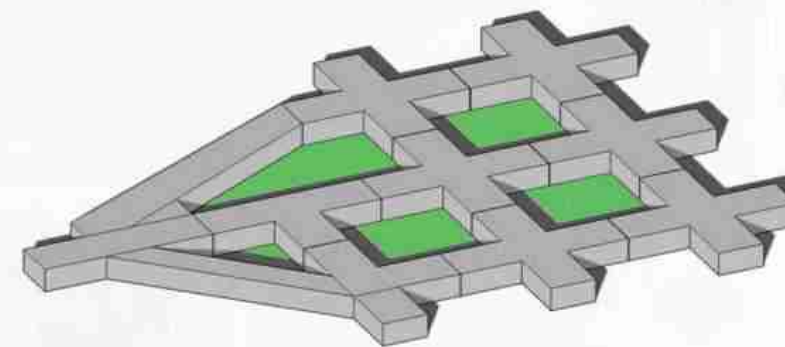
Three blocks are placed horizontally for three separate entries for OPD, emergency and IPD.



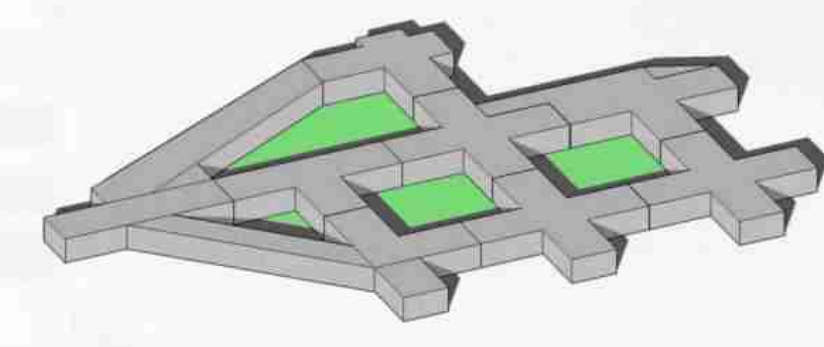
Horizontally and vertically placed cross blocks to form courtyards.



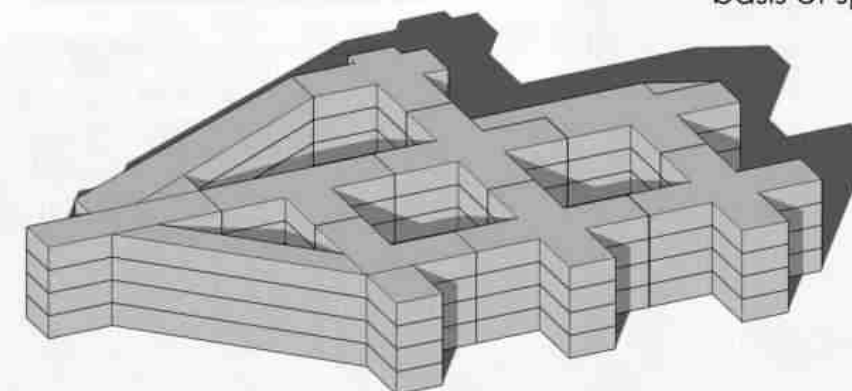
Subtraction of one side from two cross blocks to form an inclined space to minimize the distance of department as per area requirement.



Subtraction of sides from another two cross blocks



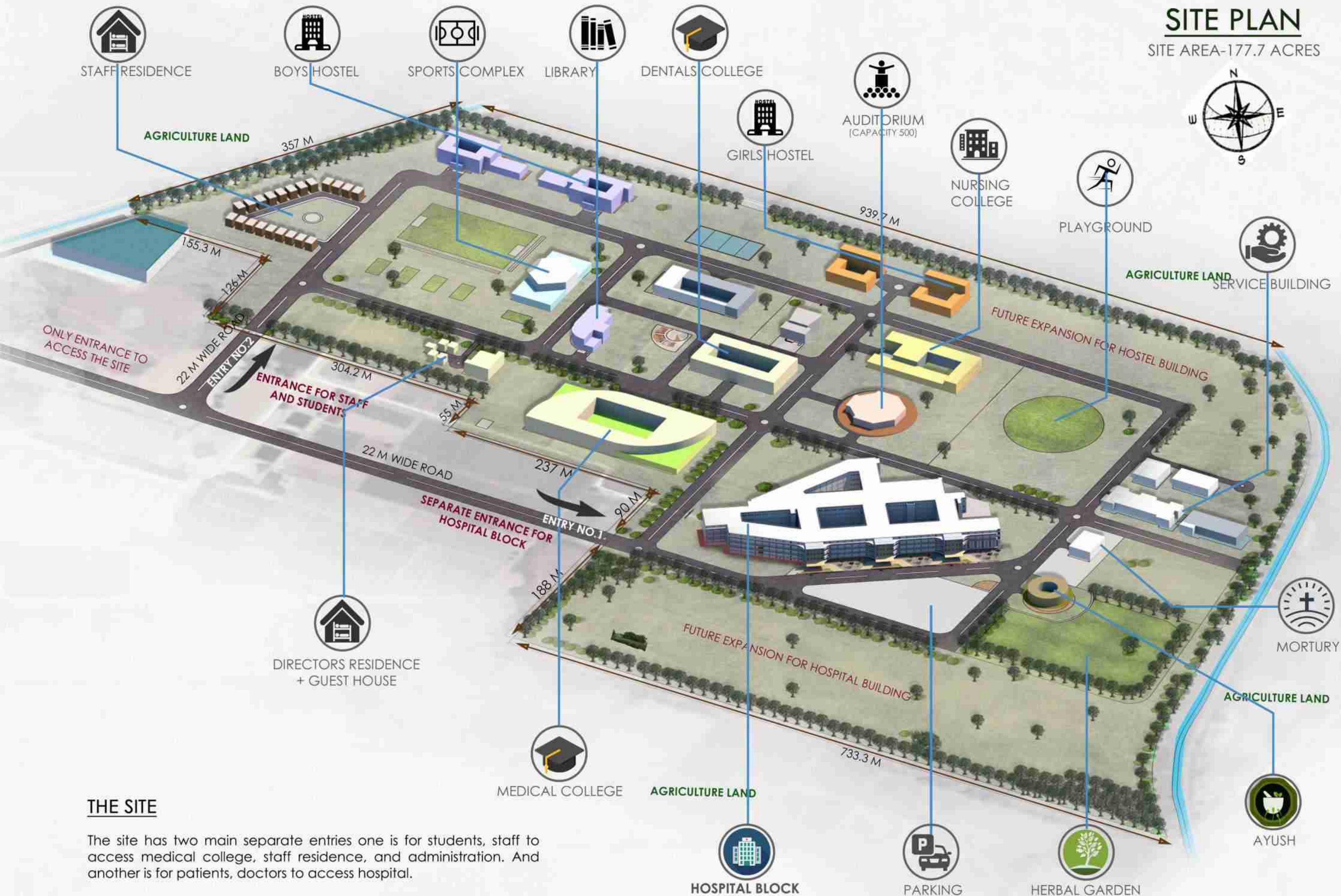
Further the design have been proceed on the basis of space required for each categories.



Shifting and manipulating the design in accordance with requirements of zones lead to the creation of spaces.

SITE PLAN

SITE AREA-177.7 ACRES



THE SITE

The site has two main separate entries one is for students, staff to access medical college, staff residence, and administration. And another is for patients, doctors to access hospital.

GROUND FLOOR PLAN (LEGENDS)

- 1. MAIN ENTRY
- 2. EMERGENCY ENTRY
- 3. I.P.D ENTRY
- 4. OUT PATIENT DEPARTMENT
- 5. EMERGENCY DEPARTMENT
- 6. I.P.D
- 7. O.T COMPLEX
- 8. LABORATORIES
- 9. RADIOLOGY
- 10. BLOOD BANK
- 11. PHYSIOTHERAPY
- 12. ADMINISTRATION ENTRY

- 13. ACADEMICS
- 14. OFFICE
- 15. KITCHEN
- 16. HOUSEKEEPER OFFICE



18 M WIDE ROAD

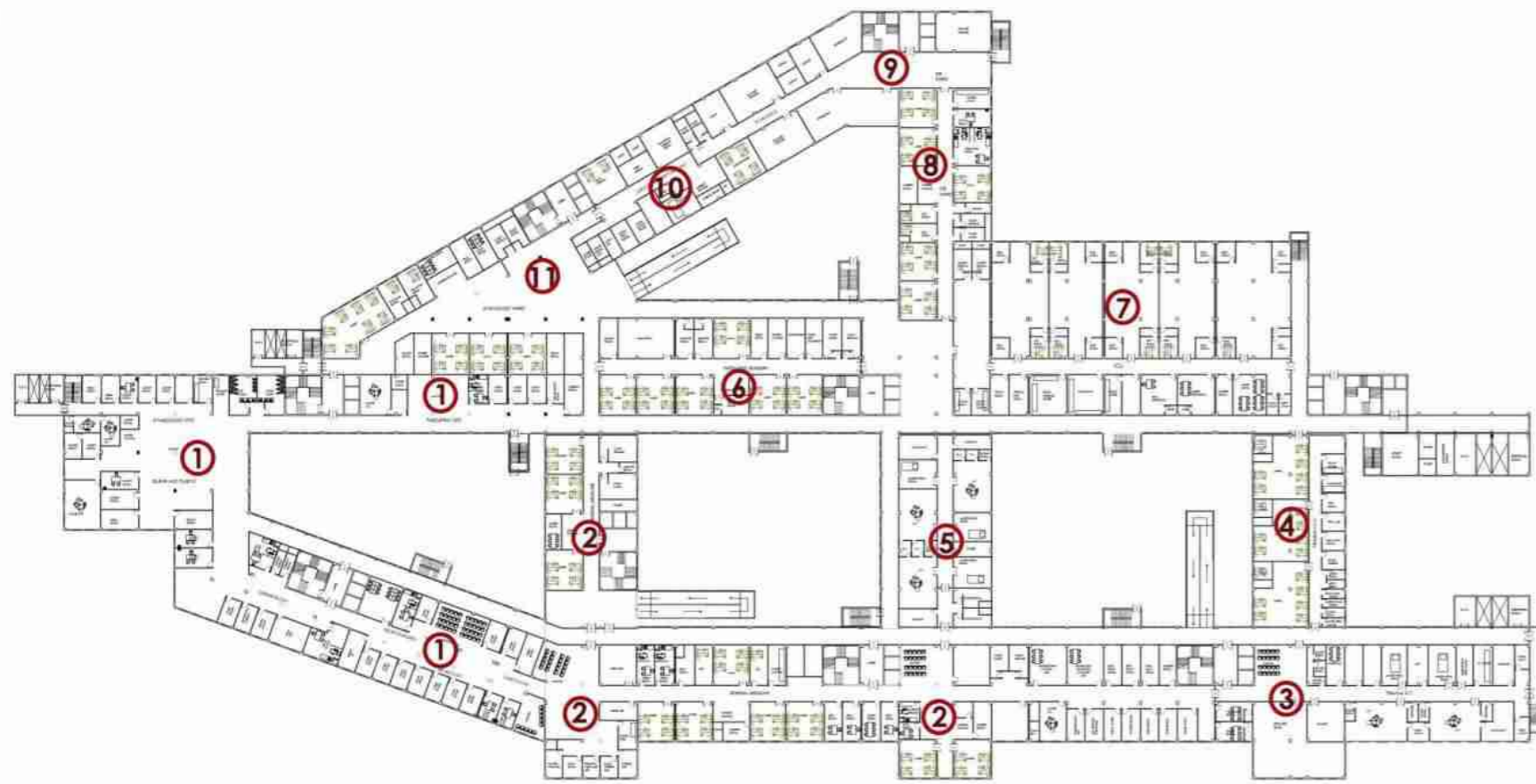
MAIN ENTRY

EMERGENCY ENTRY

18 M WIDE ROAD

I.P.D ENTRY

GROUND FLOOR PLAN



FIRST FLOOR PLAN

**FIRST FLOOR PLAN
(LEGENDS)**

- 1. OPD
- 2. General Medicine
- 3. Trauma O.T
- 4. Trauma I.C.U
- 5. O.T. complex
- 6. Paediatric surgery
- 7. Intensive care unit
- 8. O.B ward
- 9. Academics
- 10. Labour and birthing unit
- 11. Gynaecology ward

**SECOND FLOOR PLAN
(LEGENDS)**

- 1. Clinical haematology
- 2. Dermatology ward
- 3. Burns and Plastic ward
- 4. Cardiology ward
- 5. P.A.R
- 6. B.M.T facility
- 7. Nephrology ward
- 8. Trauma intensive care unit
- 9. O.T. complex
- 10. Urology ward
- 11. General surgery ward
- 12. Neurology ward
- 13. E.N.T ward
- 14. Academics
- 15. Ortho ward
- 16. Housekeeper office



SECOND FLOOR PLAN

**THIRD FLOOR PLAN
(LEGENDS)**

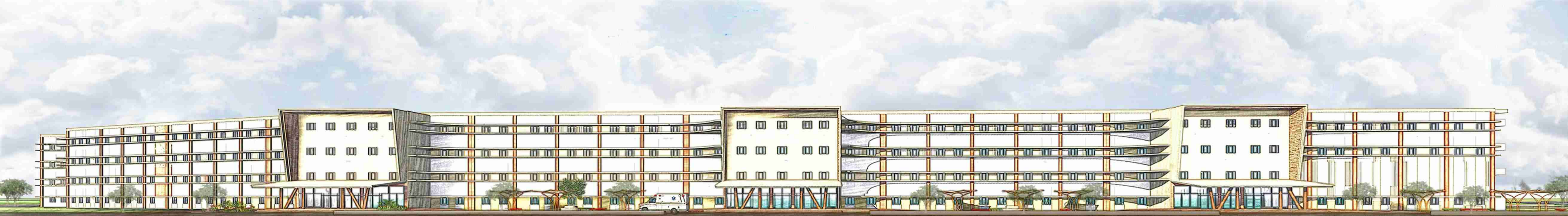
- 1. Private Ward
- 2. ward
- 3. Endocrinology ward
- 4. P.A.R
- 5. Neurosurgery ward
- 6. Gastro enterology
- 7. Intensive care unit
- 8. O.T. complex



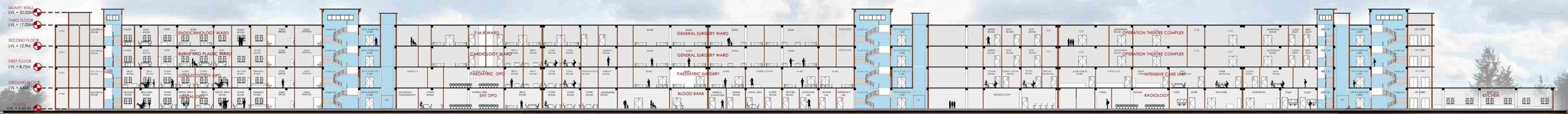
THIRD FLOOR PLAN

**THIRD FLOOR PLAN
(LEGENDS)**

- 9. General surgery ward
- 10. P.M.R. unit
- 11. T.B. and respiratory
- 12. Ophthalmology ward
- 13. Academics
- 14. Ctls icu
- 15. Housekeeper office



FRONT ELEVATION



SECTION A-A'

MIXED USE BUILDING

LOCATION
New market, Bhopal

PROJECT TYPE
Commercial
CENTRE

SITE AREA
23350 Sq.m (5.7 Acres)

02





BRIEF

The aim of this project was to design a mixed use highrise for commercial purposes.

ABOUT PROJECT

The site is located in one of the most commercialised area of bhopal. It is situated in New Market, TT nagar, Bhopal.

the site was surrounded by shopping centres, government offices, residences and a huge mela space which is linked to site.

Site area : 5.7 acres (23350 sq.m)

Allowable ground coverage : 30 % (5830 sq.m)

Ground coverage achieved : 17.2 % (4026 sq.m)

Total builtup area : 16104 sq.m

Height of building : 21.7 m

soil type : Black cotton soil

Wind direction : south west to north east

Topography : Flat land

summer temp : 47.7 C

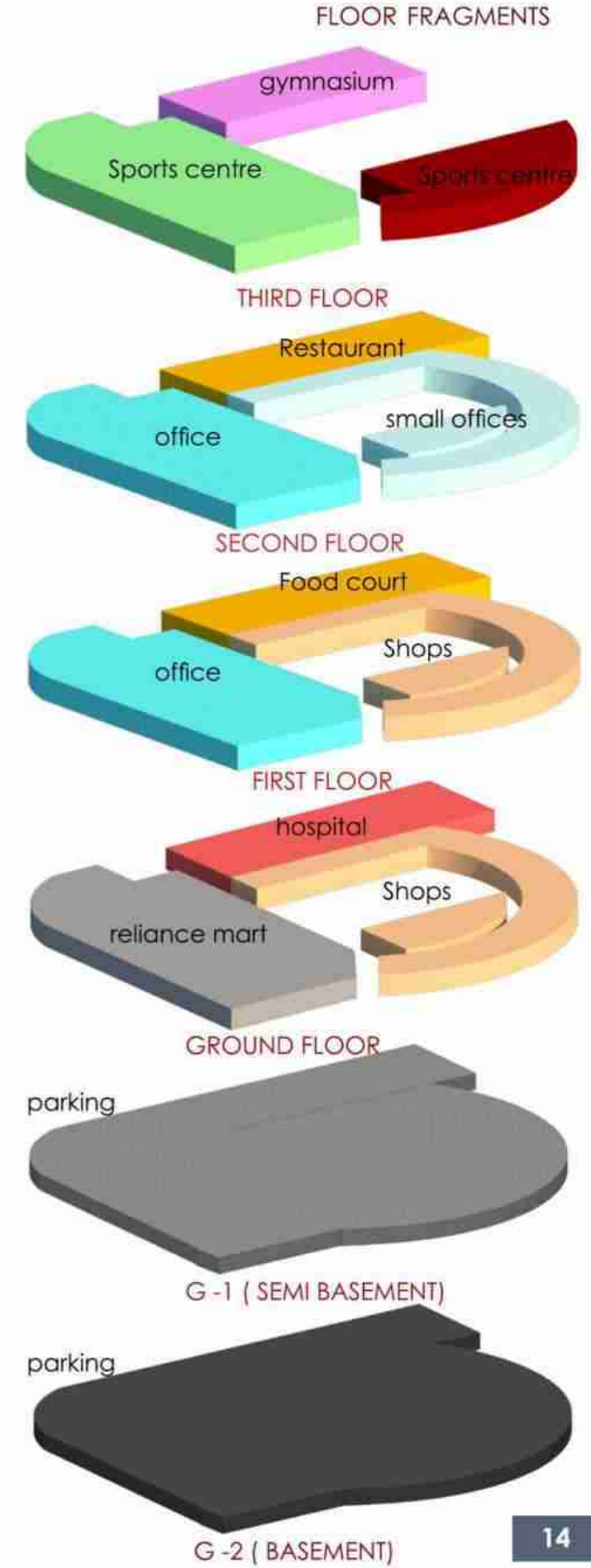
Winter temp : 8.5 C



SITE PLAN

TYPE OF AMENITIES

- Hospital
- Shopping centre
- Restaurant
- Sport centre / gymnasium
- Offices



CHALLENGES



Parking requirement



Visual pollution



highly dense

EXIT FROM BASEMENT

OPEN PARKING

8M WIDE SERVICE ROAD

12 M WIDE ROAD

A

B

C

D

E

F

G

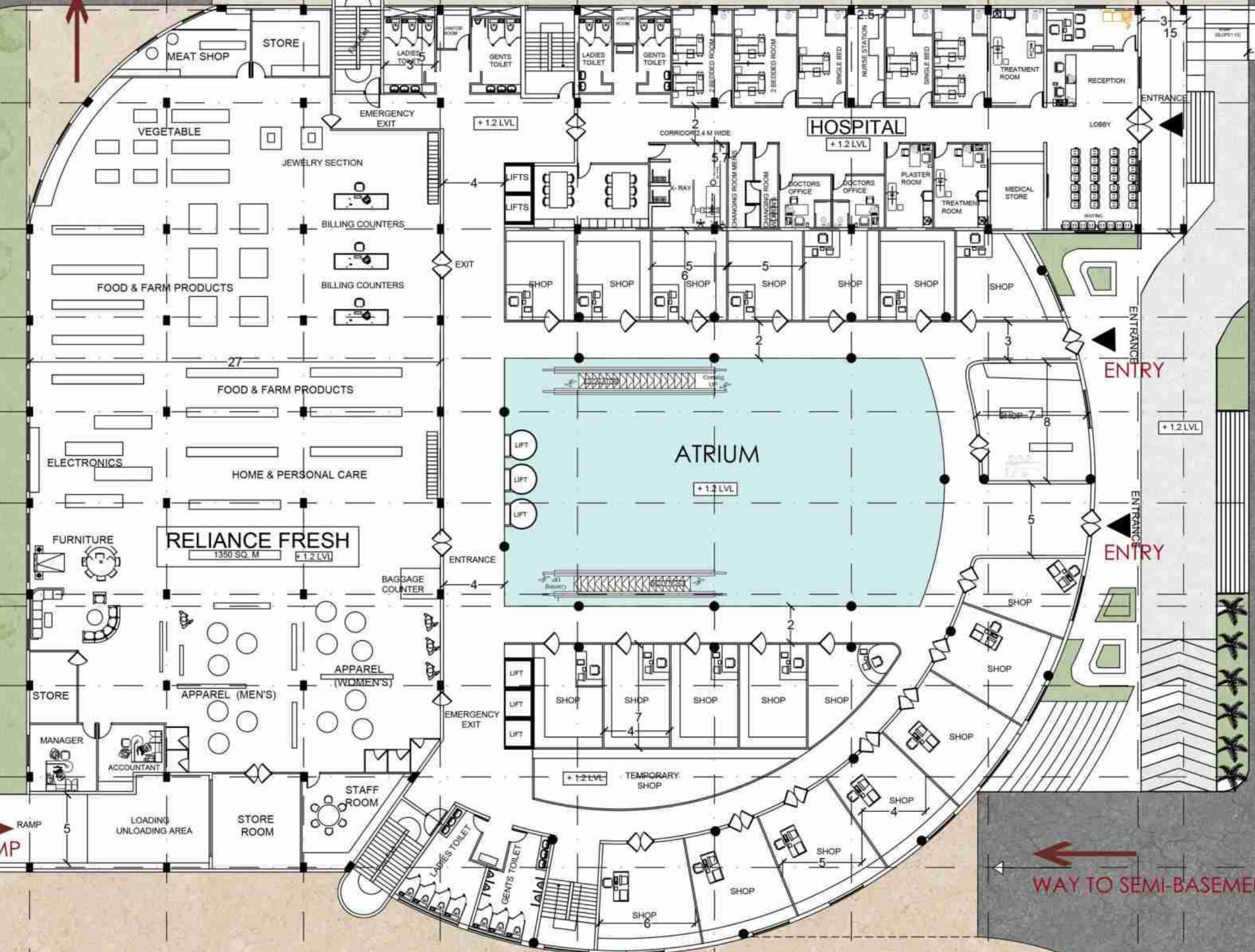
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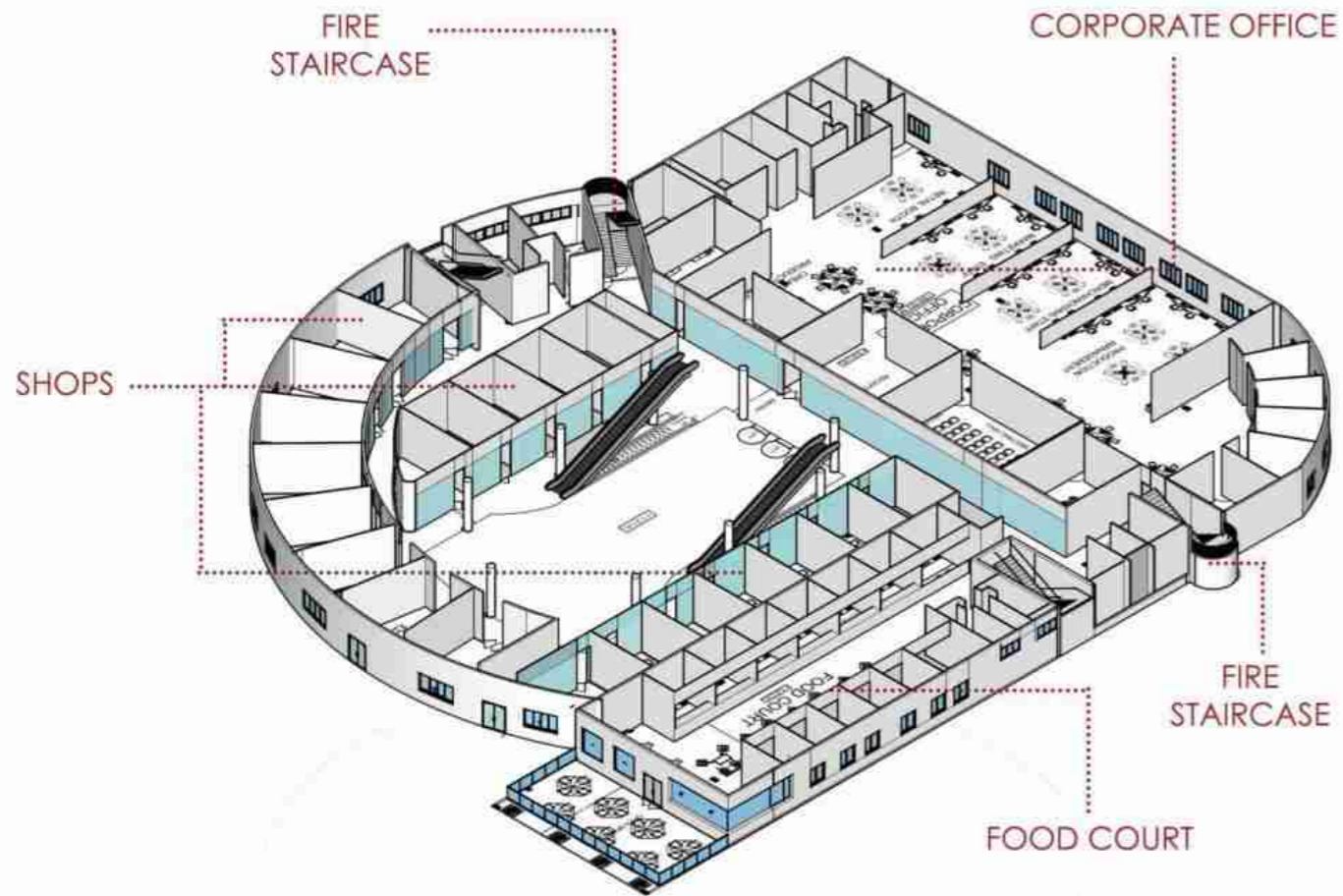
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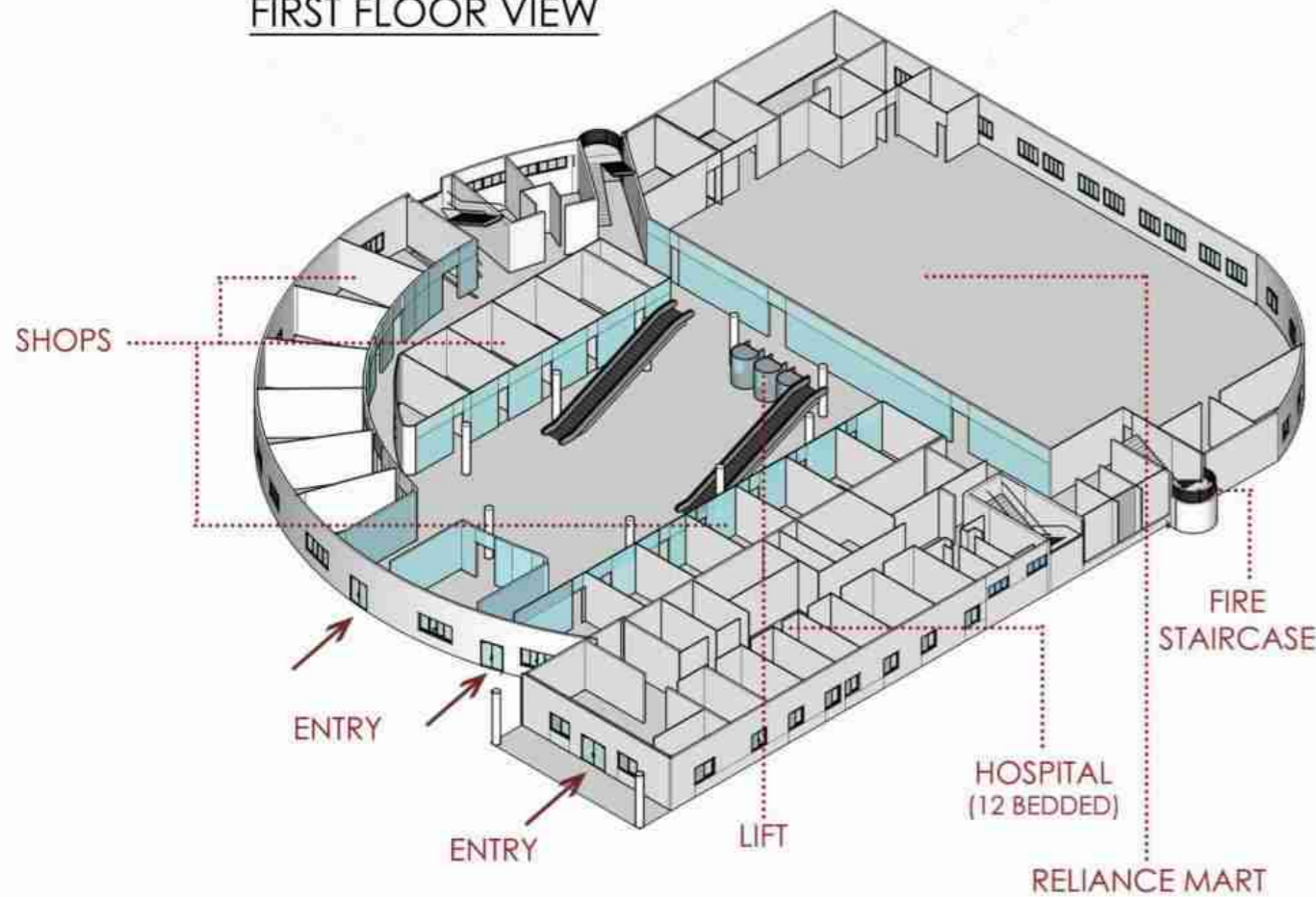


1 2 3 4 5 6 7 8 9 10

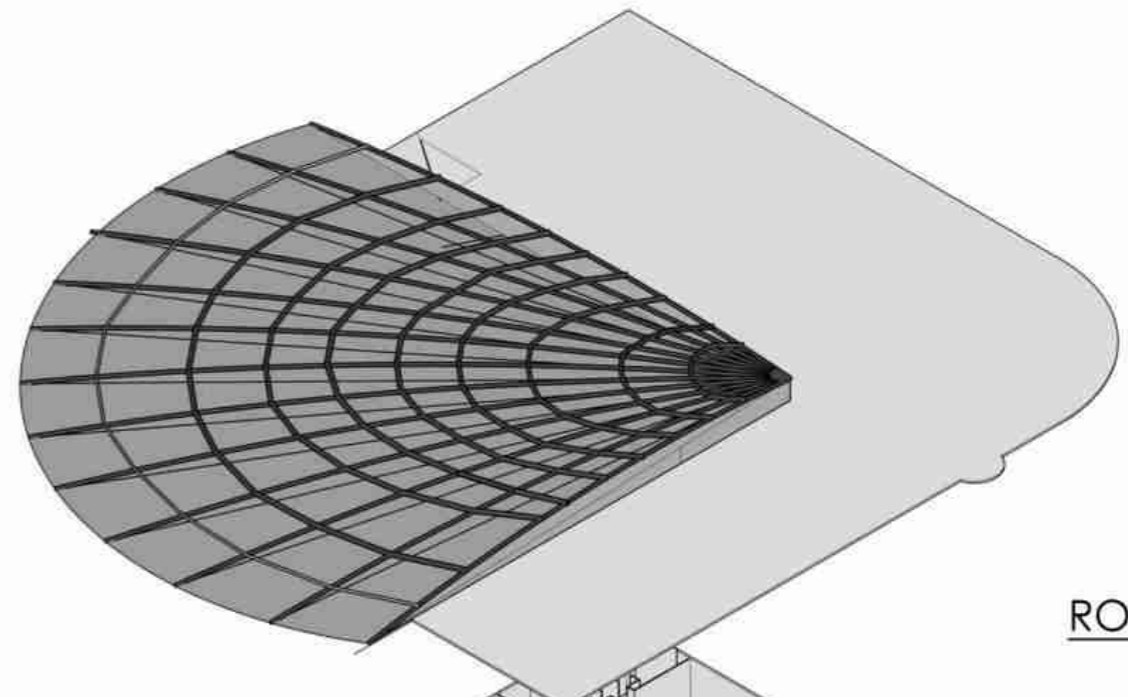
GROUND FLOOR PLAN



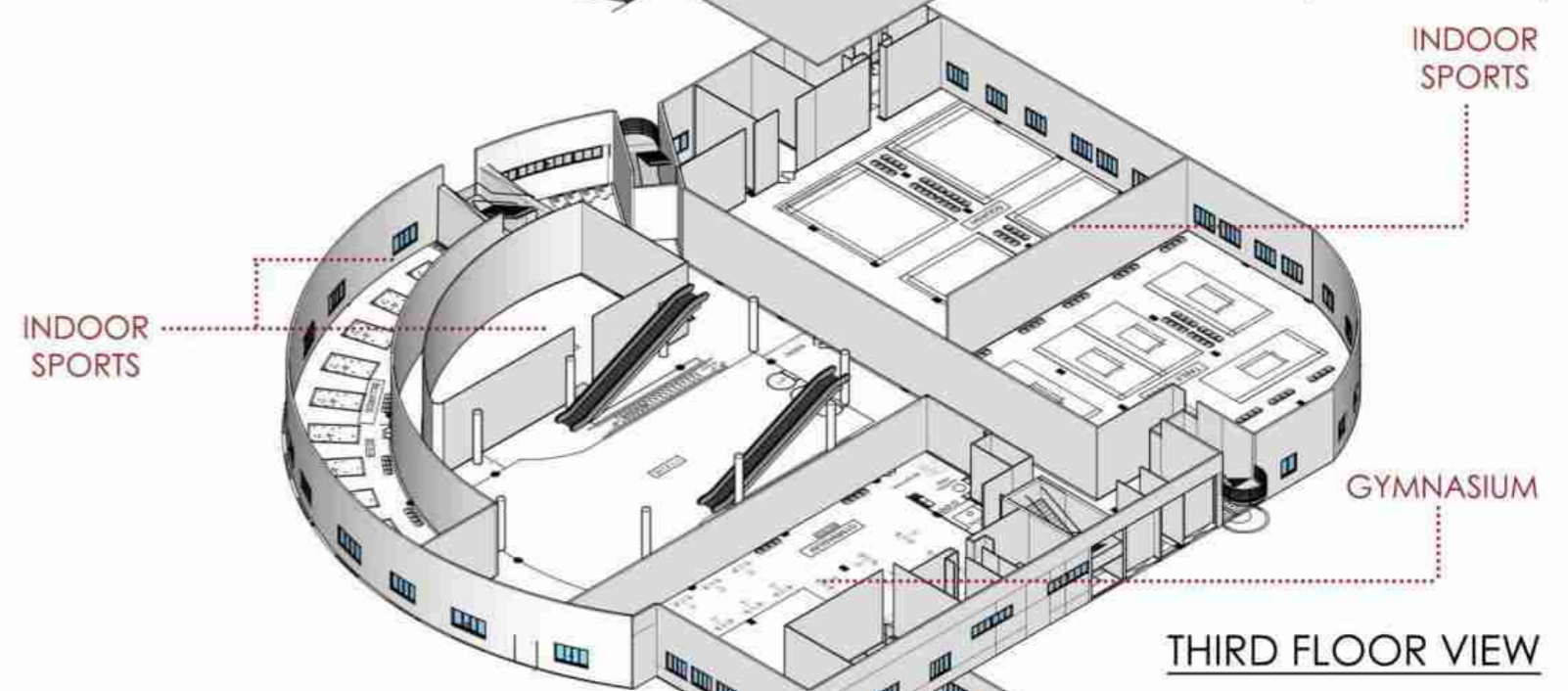
FIRST FLOOR VIEW



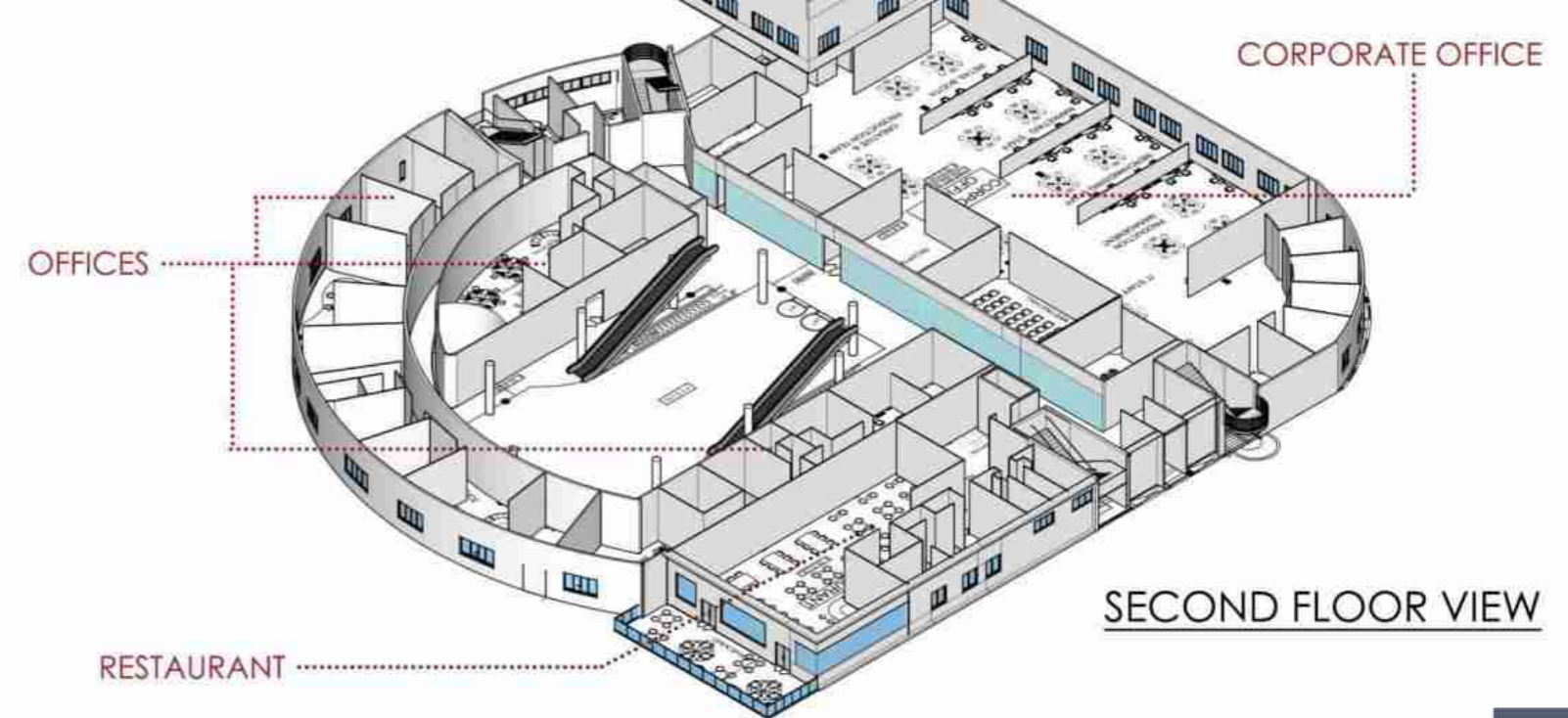
GROUND FLOOR VIEW



ROOF VIEW



THIRD FLOOR VIEW



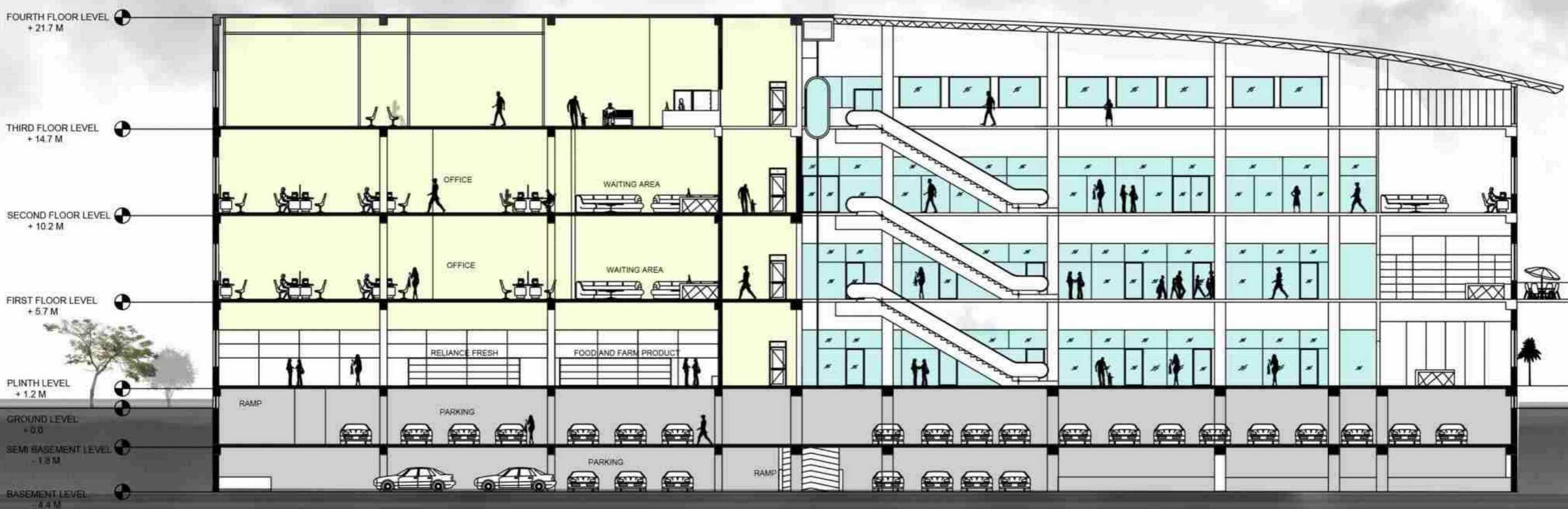
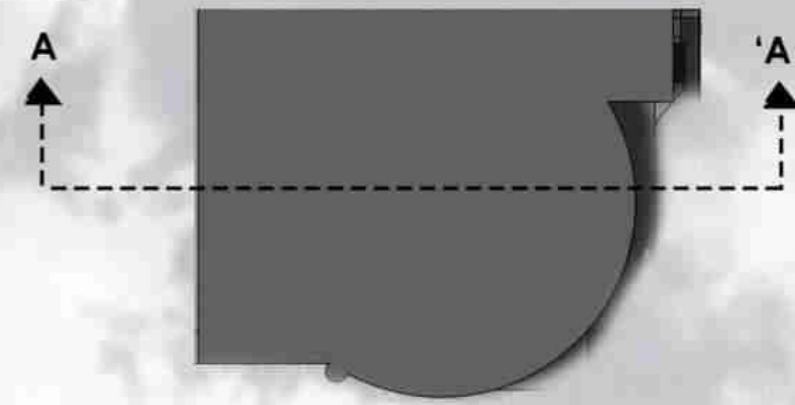
SECOND FLOOR VIEW



FRONT ELEVATION



SOUTH SIDE ELEVATION



SECTION A-A'

BUS TERMINAL

LOCATION
Aashta , Madhya pradesh.

PROJECT TYPE
Public

SITE AREA
8773 Sq.m (2.16 Acres)

03





BRIEF

To prepare a proposal of an existing bus terminal in AASHITA. Aashita is located in madhya pradesh and it acts as a major stoppage for passengers who are travelling from Bhopal to Indore.

In this design problem we had to design a bus terminal which should have minimum 20 bus bays and a Nagar Palika office which should be separated from other activities.



20 buses per hour



1 service bay



21 bus bays



10 minutes hold time



BUS CIRCULATION PROPOSAL



TWO WHEELER AND FOUR WHEELER CIRCULATION PROPOSAL



PEDESTRIAN CIRCULATION (PROPOSAL)

CHALLENGES



No dedicated parking space for private vehicles.



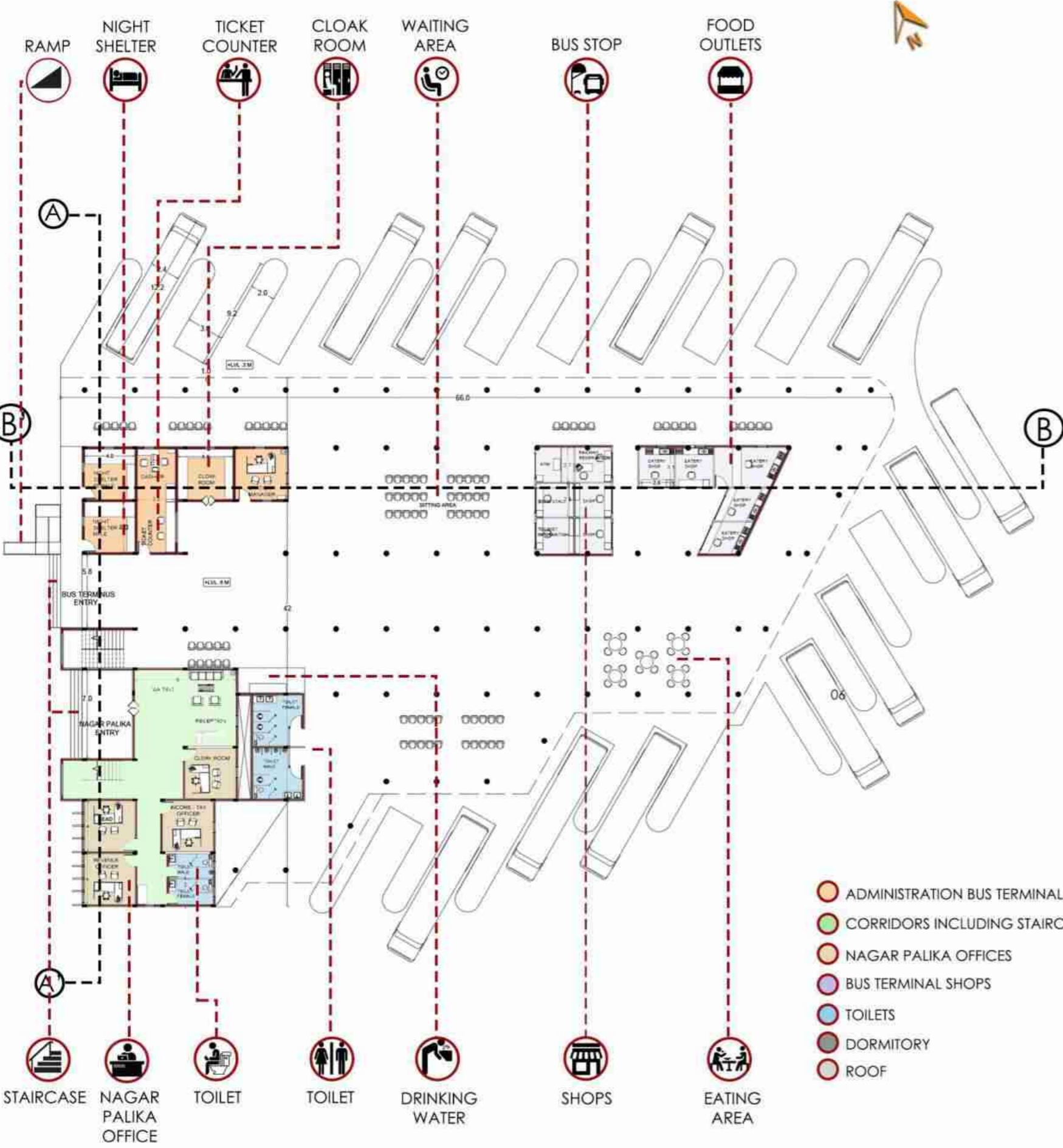
No bus bays. by this buses were arranged in random positions



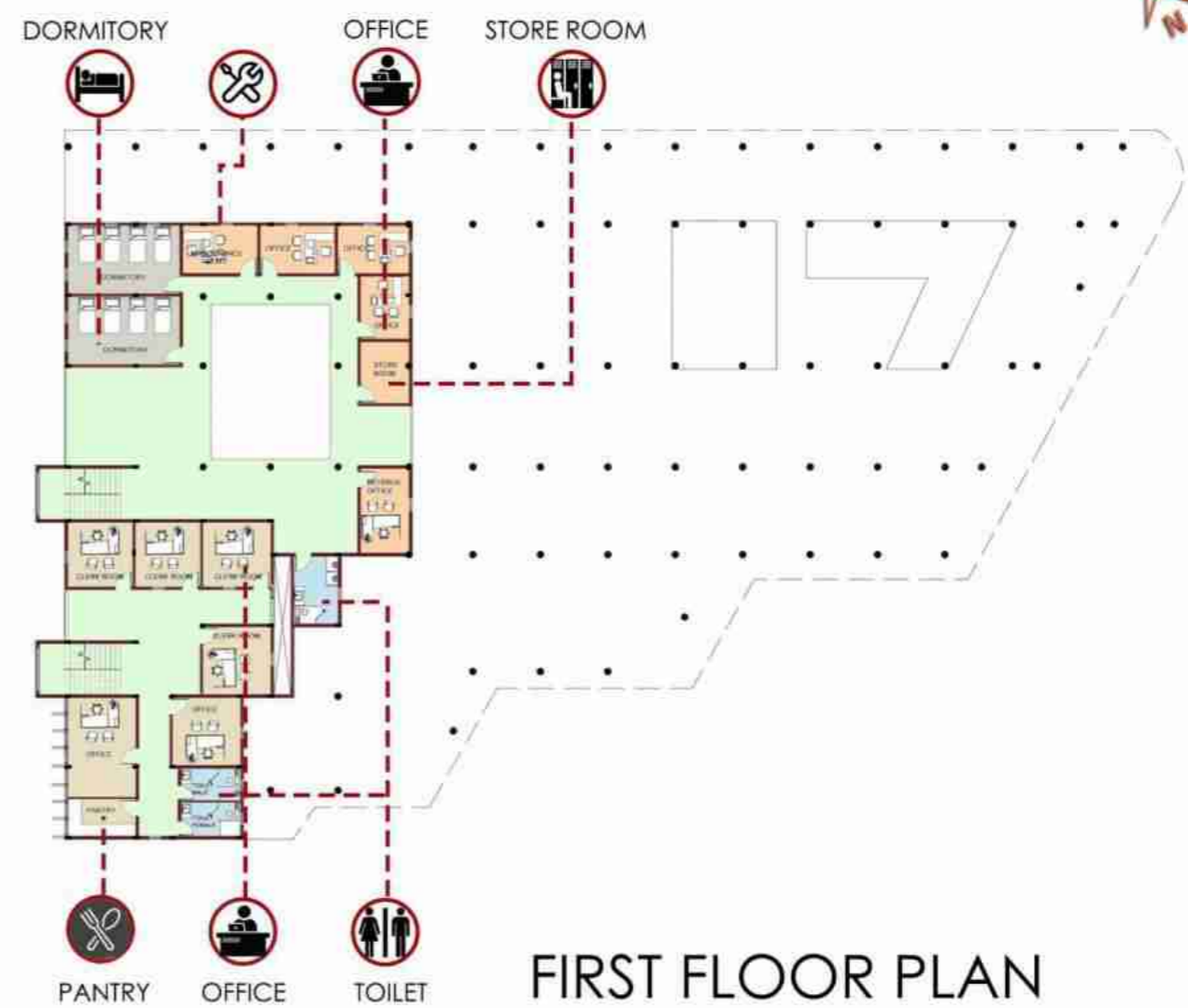
Improper sanitary arrangements



lack of sitting space.



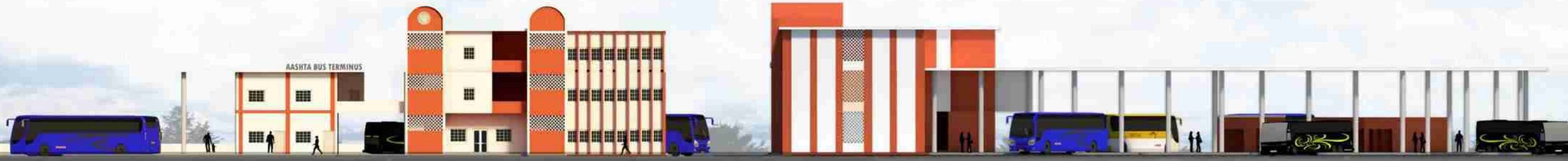
GROUND FLOOR PLAN



FIRST FLOOR PLAN

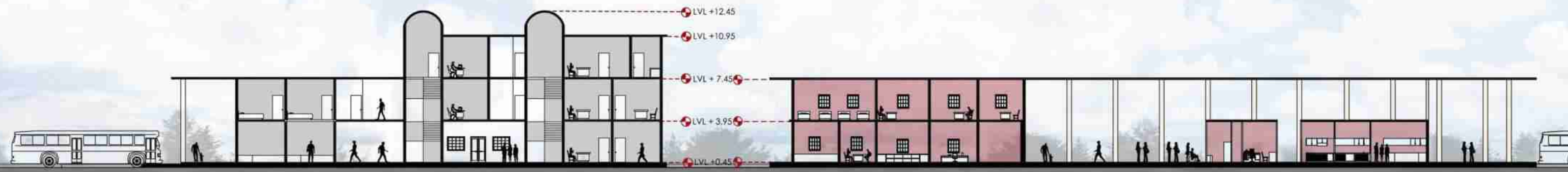


SECOND FLOOR PLAN



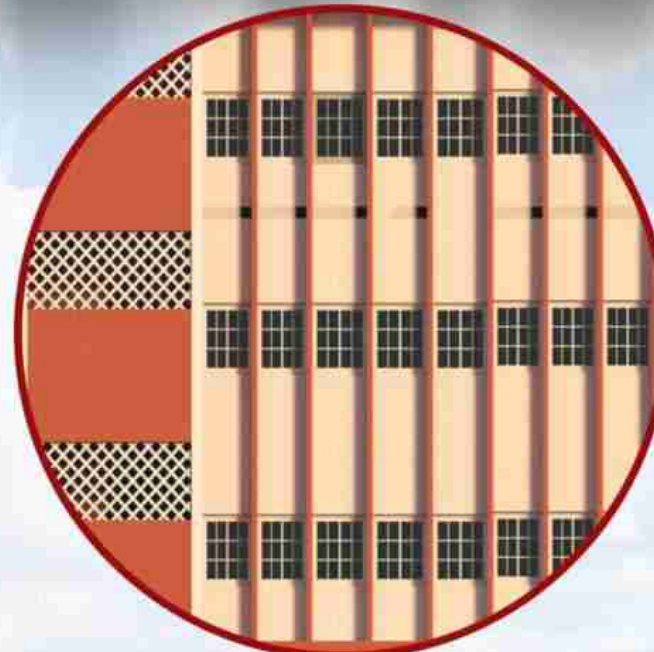
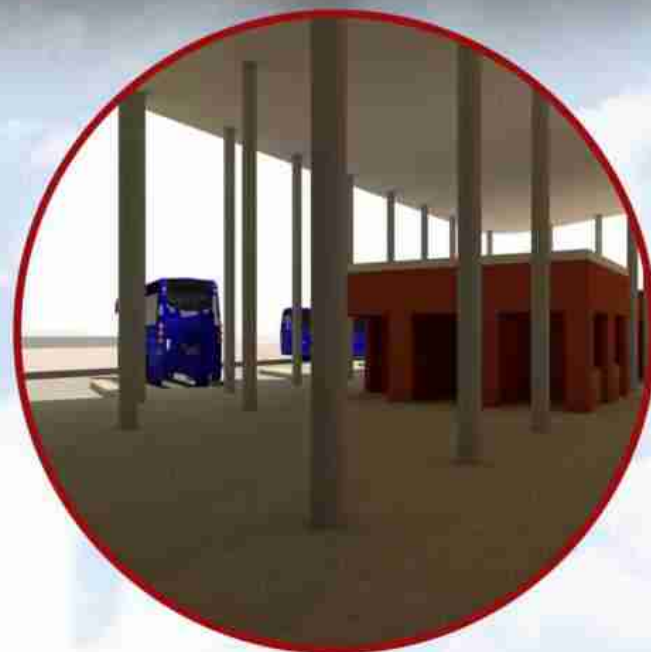
FRONT ELEVATION

SOUTH ELEVATION



SECTION A-A'

SECTION B-B'



SHILPGRAM

CRAFTSMEN'S VILLAGE

LOCATION
Kolar Road, Bhopal

PROJECT TYPE
Public place

SITE AREA
40468 Sq.m (10 Acres)

04





BRIEF

In this design problem we had to design a shilpgram, in which five workshops had to design related to crafts of madhya Pradesh. and a craft gallery, a mela space for large gathering, an OAT for performing folk arts, and residences for staff, trainees and for trainers.

Shilpgram is an ethnographic museum that depicts the lifestyles of the folk and tribal people of the region. With an objective of increasing awareness and knowledge about the rural arts and crafts, the Shilpgram provides opportunity to rural and urban artists to come together and interact through the process of camps and workshops.

ABOUT PROJECT

Location : kolar , bhopal, Madhya Pradesh.

Site area : 10 acres (40468 sq.m)

Soil type : Black cotton soil

Wind direction : south west to north east

Slope of site : 1.5 m

Summer temp : 47.7 C

Winter temp : 8.5 C

DESIGN PROCESS



VISUAL CONNECTIVITY

The internal layout and design of blocks will allow seamless visual connection.



SIMPLICITY OF CIRCULATION

Simplicity in circulation allows public to access most of the spaces in shilpgram .Workshop is placed near to crafts museum which allows public to see how crafts are made.



VERNACULAR ARCHITECTURE

Use of exposed brick wall and sloping roof in building blocks to create a smooth touch of vernacular architecture.



EXTROVERT PLANNING

Everything is accessible and naturally connected with the external spaces and activities. User will always retain the sense and comfort of open space.

CHALLENGES

As a craftsmens village it should be interactive to its users whom are villagers . spaces should be planned as per there need and to increase and enhance workability.



Visual connectivity



User friendly



Attracting Users



Promotes rural and cultural activities

Image © 2017 DigitalGlobe
© 2017 Google

SITE PLANNING



CANAL

A canal is passing through the site in the east west direction which can help in passive cooling.

FUTURE EXPANSION

THEATRE (CAPACITY 150)

theatre and library clubbed together.

THEATRE (CAPACITY 100)

LIBRARY

it is in the centre of all spaces . and it is also far away from mela space which can disturb its activities.

SECONDARY ENTRANCE

Separate entrance for staff , trainers and for hostlers.

STAFF HOUSING

CANTEEN

Near to hostel block and single trainers residence.

TRAINERS FAMILY ACCOMODATION

SINGLE TRAINER ACCOMODATION

HOSTEL

hostel is provided for trainees.

SECONDARY ROAD FOR ACCESSING SITE

PARKING

Secondary parking is provided which is near to auditorium and library.

TOILET

It is in the centre of all spaces.

OAT

OAT is linked to mela space

MELA SPACE

close to main entrance which will be easy while fair time for circulation

PARKING

ADMIN.

WORKSHOPS

Close to art gallery which will approach public to see how crafts are made

GALLERY

ENTRY EXIT

316.7 m

KOLAR ROAD

22 m wide road

TO KOLAR

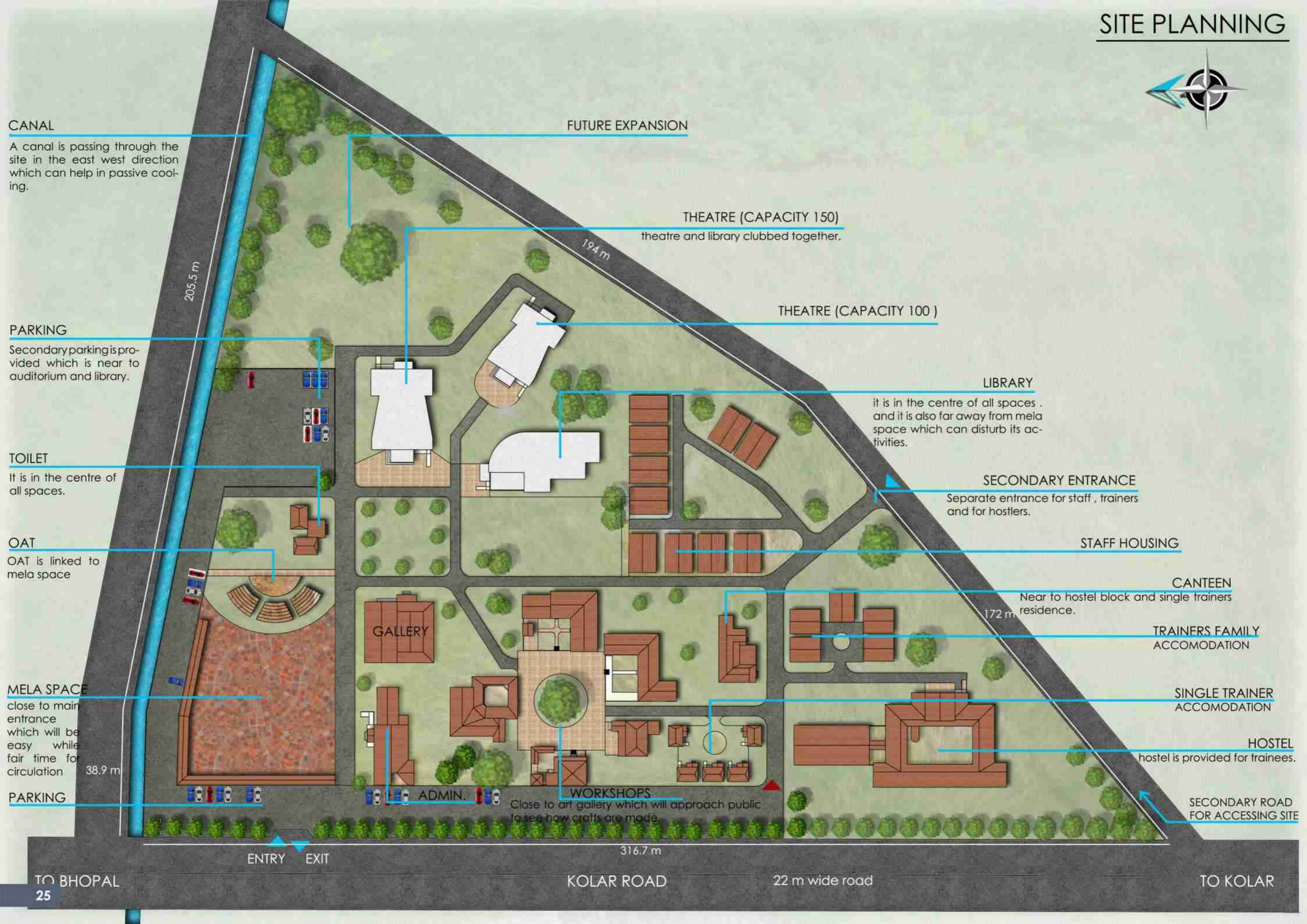
TO BHOPAL
25

205.5 m

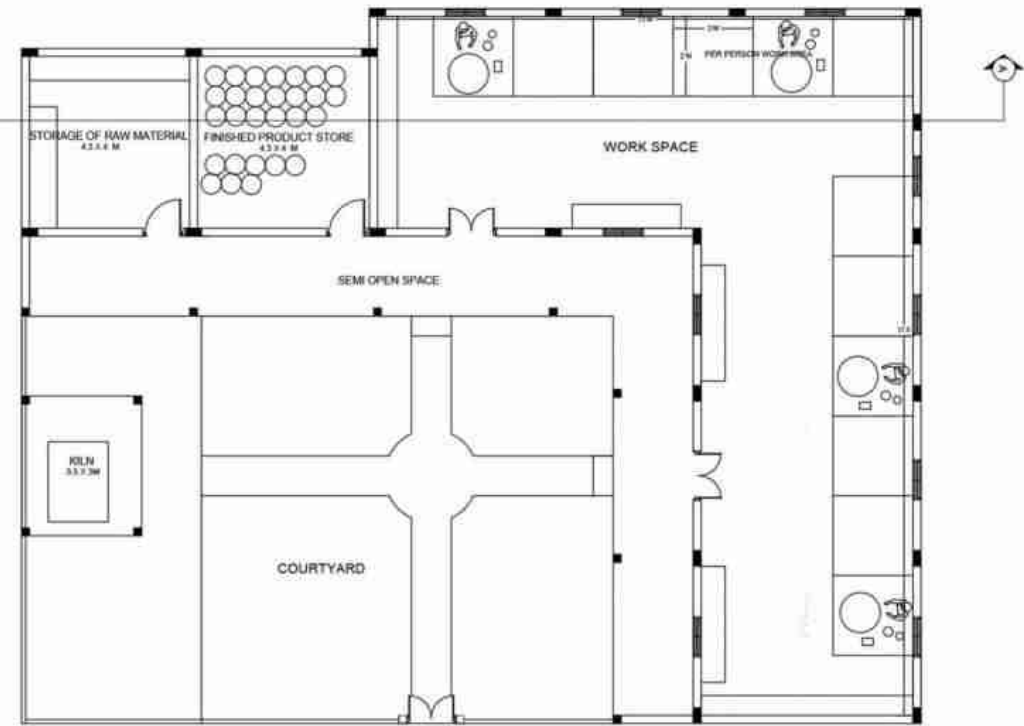
194 m

172 m

38.9 m

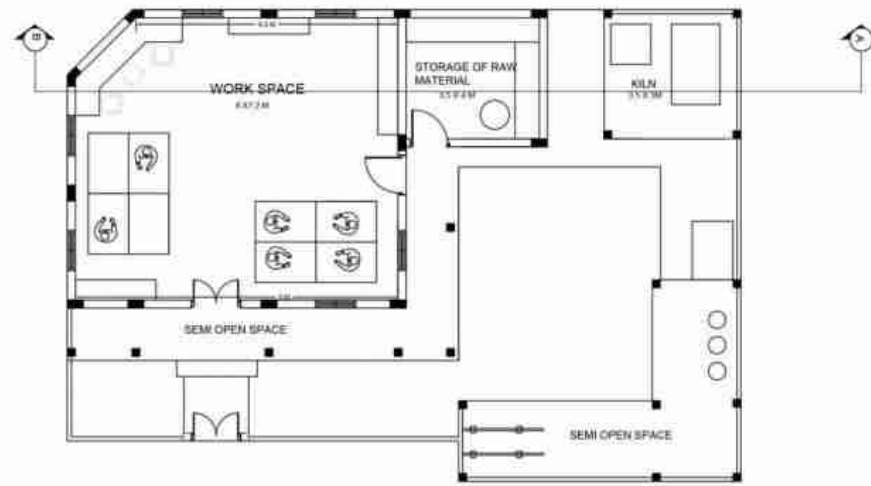


POTTERY WORKSHOP



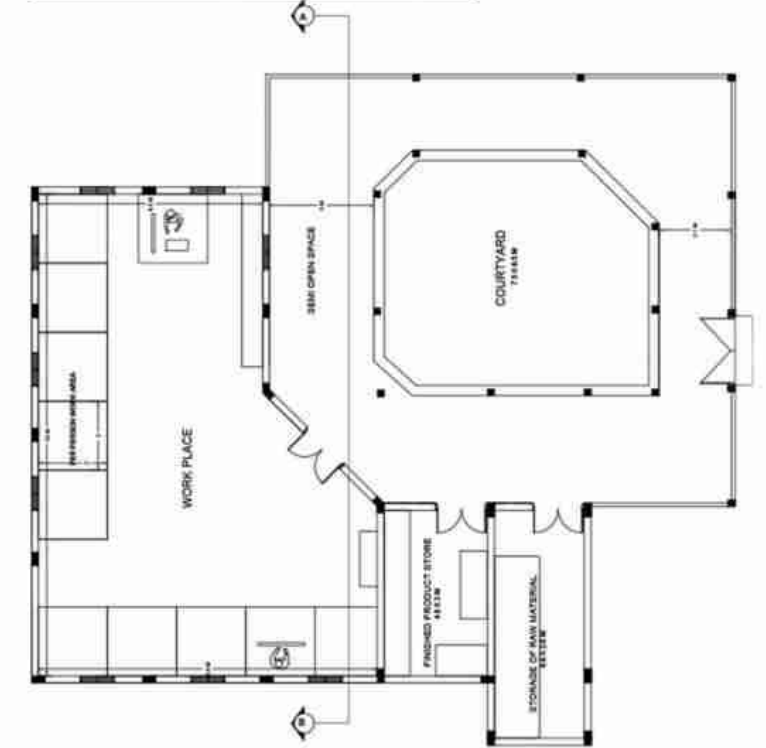
PLAN (Total area - 240 sq.m)

BELL METAL WORKSHOP



PLAN (Total area - 125 sq.m)

BAMBOO WORKSHOP



PLAN (Total area - 225 sq.m)



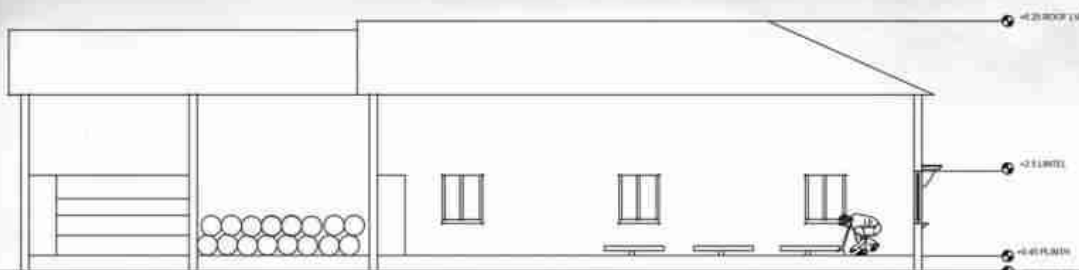
FRONT ELEVATION



FRONT ELEVATION



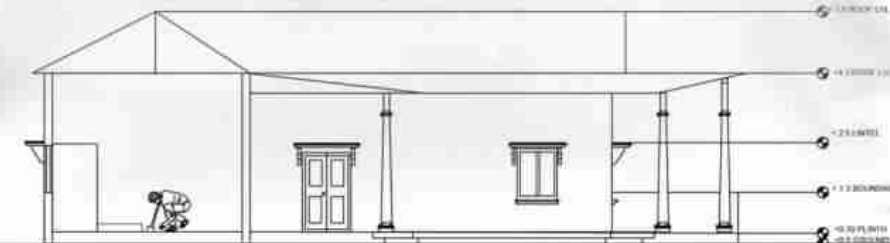
FRONT ELEVATION



SECTION A-A'



SECTION B-B'



SECTION C-C'



VIEW



VIEW

FOLK PAINTING WORKSHOP



PLAN
Total area - 95 sq.m



FRONT ELEVATION

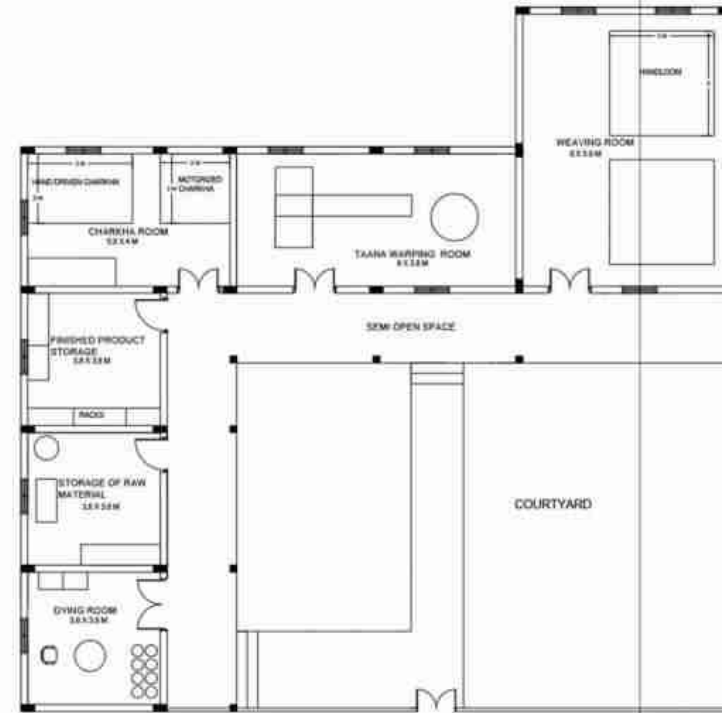


SECTION D-D'



VIEW

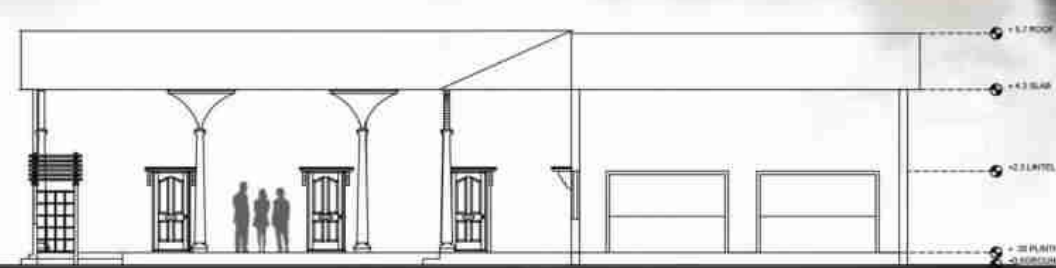
MAHESHWARI WORKSHOP



PLAN
Total area - 210 sq.m



FRONT ELEVATION

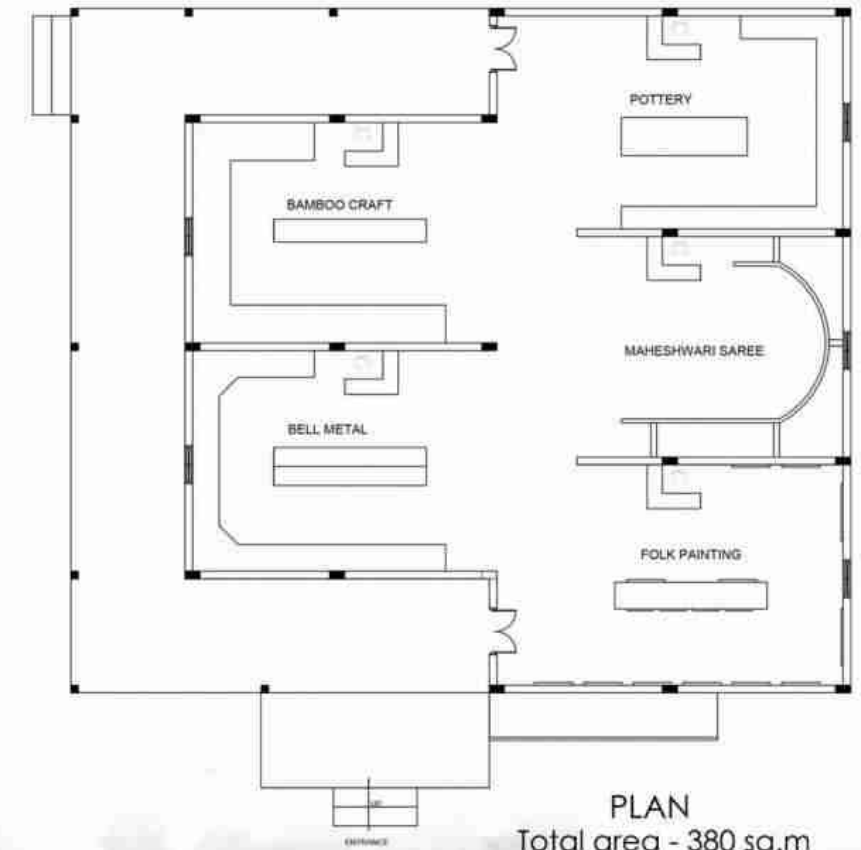


SECTION E-E'

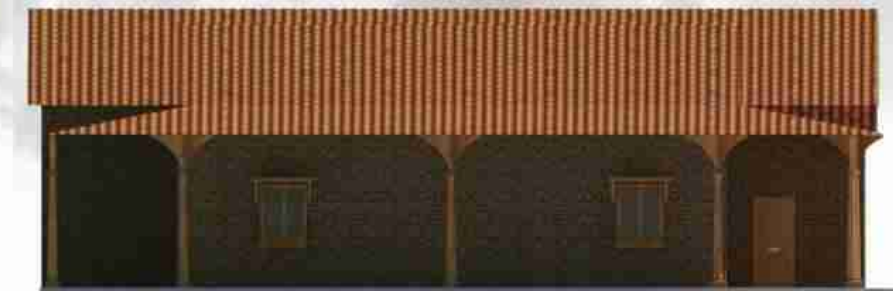


VIEW

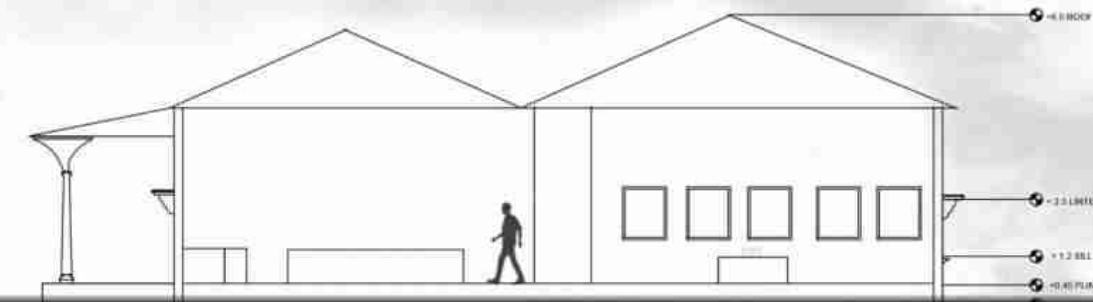
CRAFT GALLERY



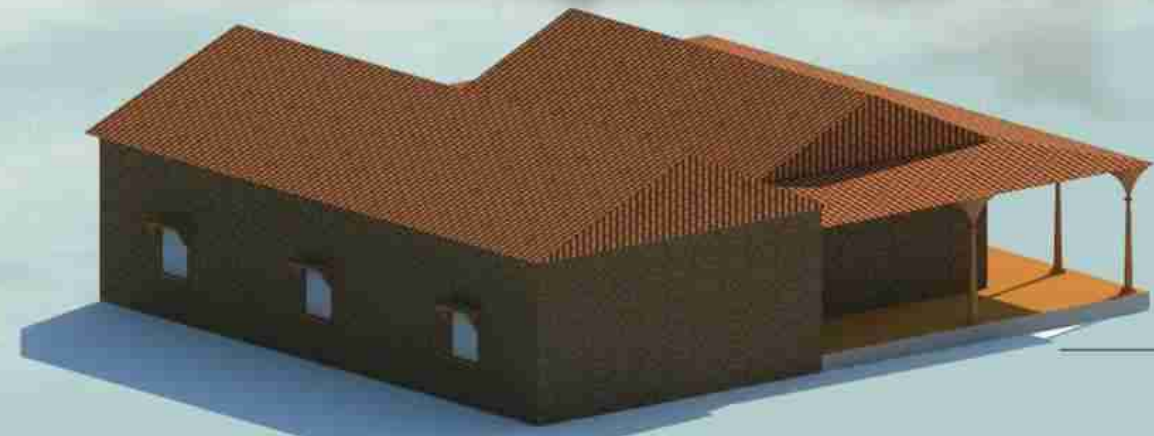
PLAN
Total area - 380 sq.m



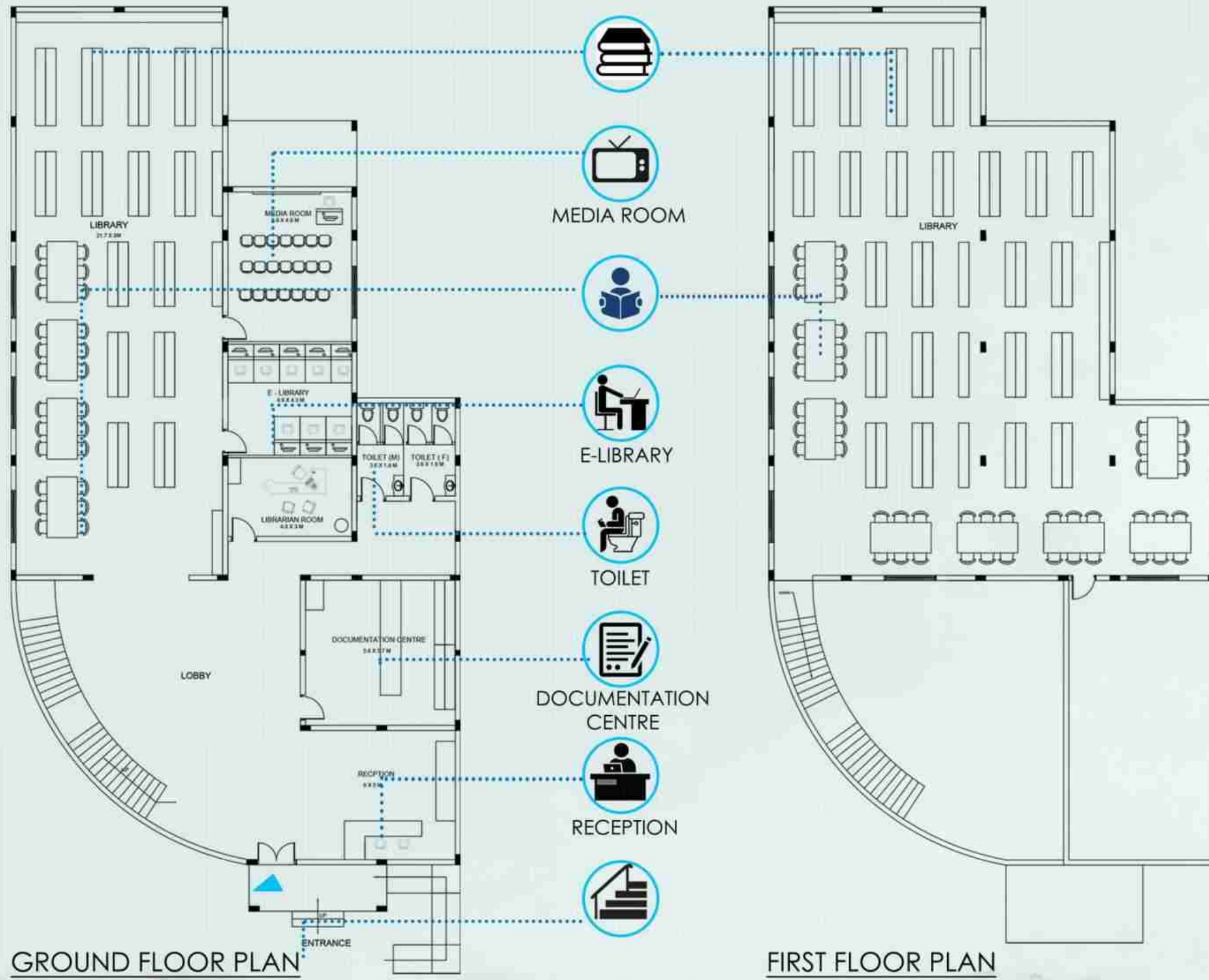
FRONT ELEVATION



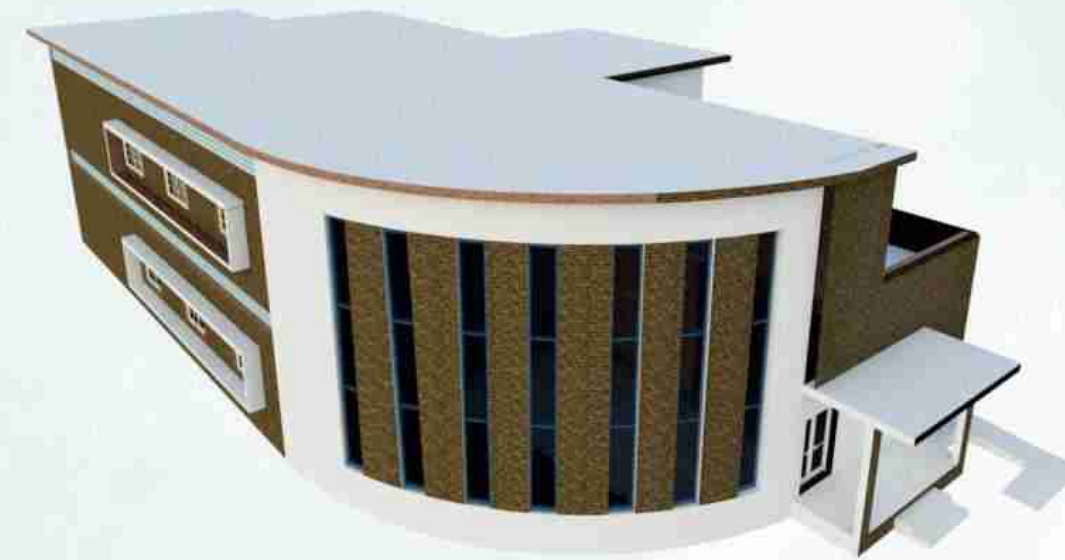
SECTION F-F'



LIBRARY



A Library is provided for 50,000 books which is located in the centre of the site which is close to readers and far away from disturbances such as mela space.



SECTION X-X'



FRONT ELEVATION



SIDE ELEVATION





SITE
Maulana Azad National

Image © 2017

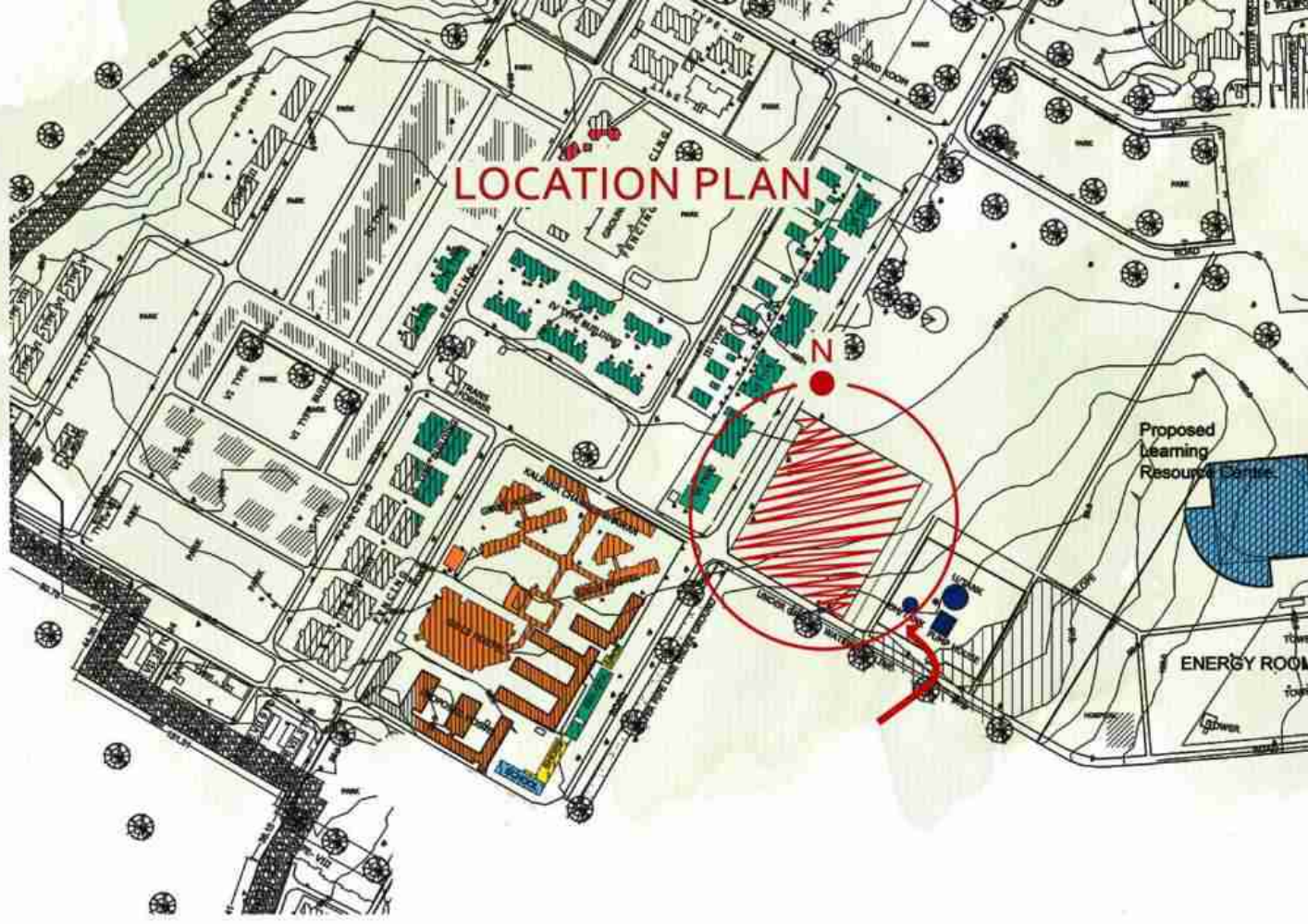
BRIEF

TO prepare a landscape design proposal for the given site at MANIT campus, bhopal.

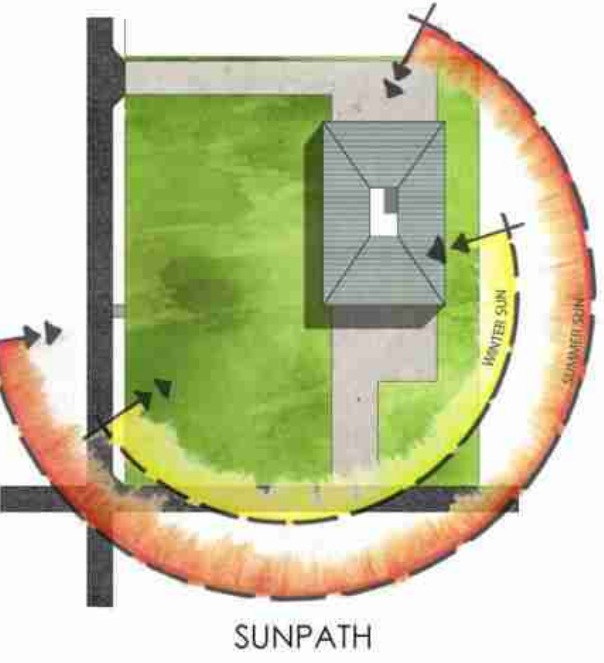
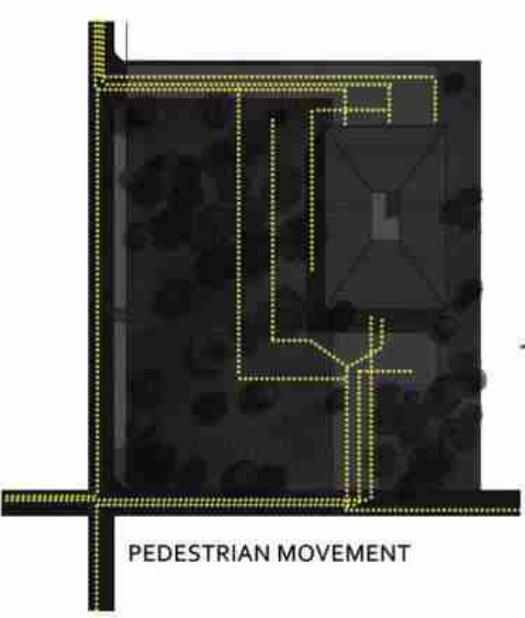
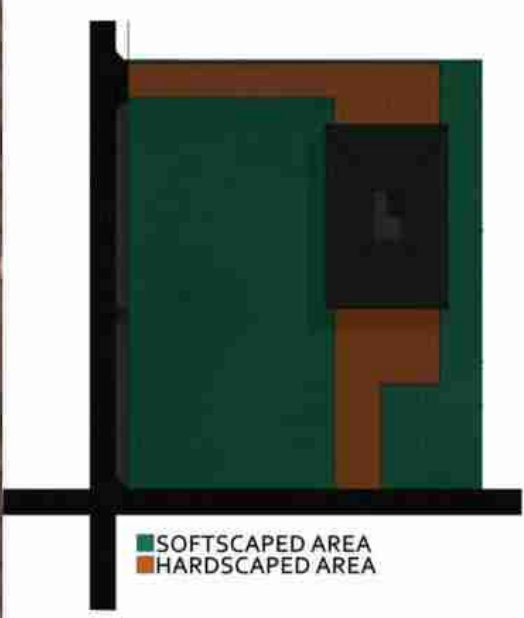
ABOUT SITE

The site is located in the shopping complex of Maulana Azad National Institute of Technology, Bhopal (Madhya Pradesh). It surrounds the building of shopping centre which consists of restaurants, cooperative store, salon, etc. The site acts as recreation space for the students visiting the place.

- Location : MANIT campus, bhopal, MP
- Total site area : 8658 sq.m
- Soil type : black cotton soil
- Climate : composite climate
- Slope : 2.5 m towards east



SITE ANALYSIS



ACTIVITIES

Mostly people come to the site to visit high octane which is a small restaurant in the shopping centre and shop stationary from the cooperative or have photocopies done.

Site is also used as a common space or a community space where fest events are held during MAFFICK AND TECHNOSEARCH.

In general, students use the space for group discussions and completion of assignments and projects. Hence, it is also a place of interaction between people of same as well as different batches and branches.

CHALLENGES



lack of sitting space



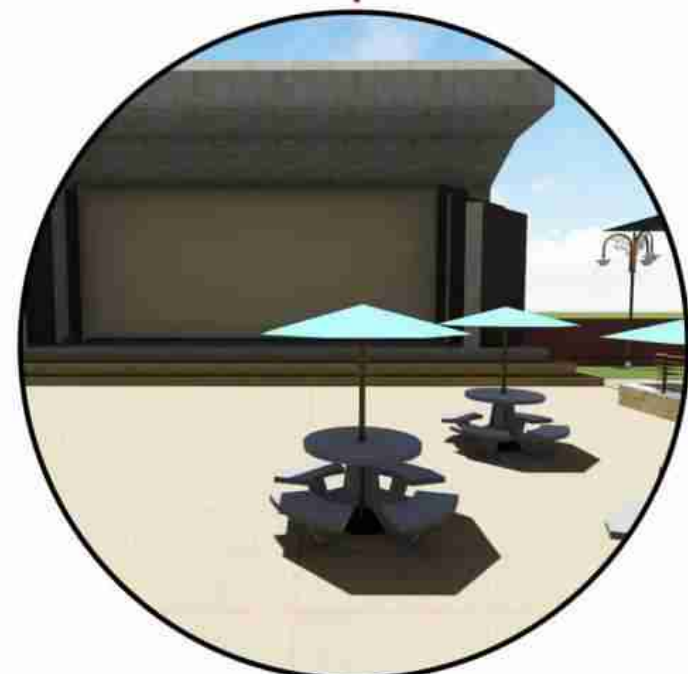
No specified parking space



No permeable pavement to walk



Improper boundary



A stage for events during Cultural fest and for other activities.



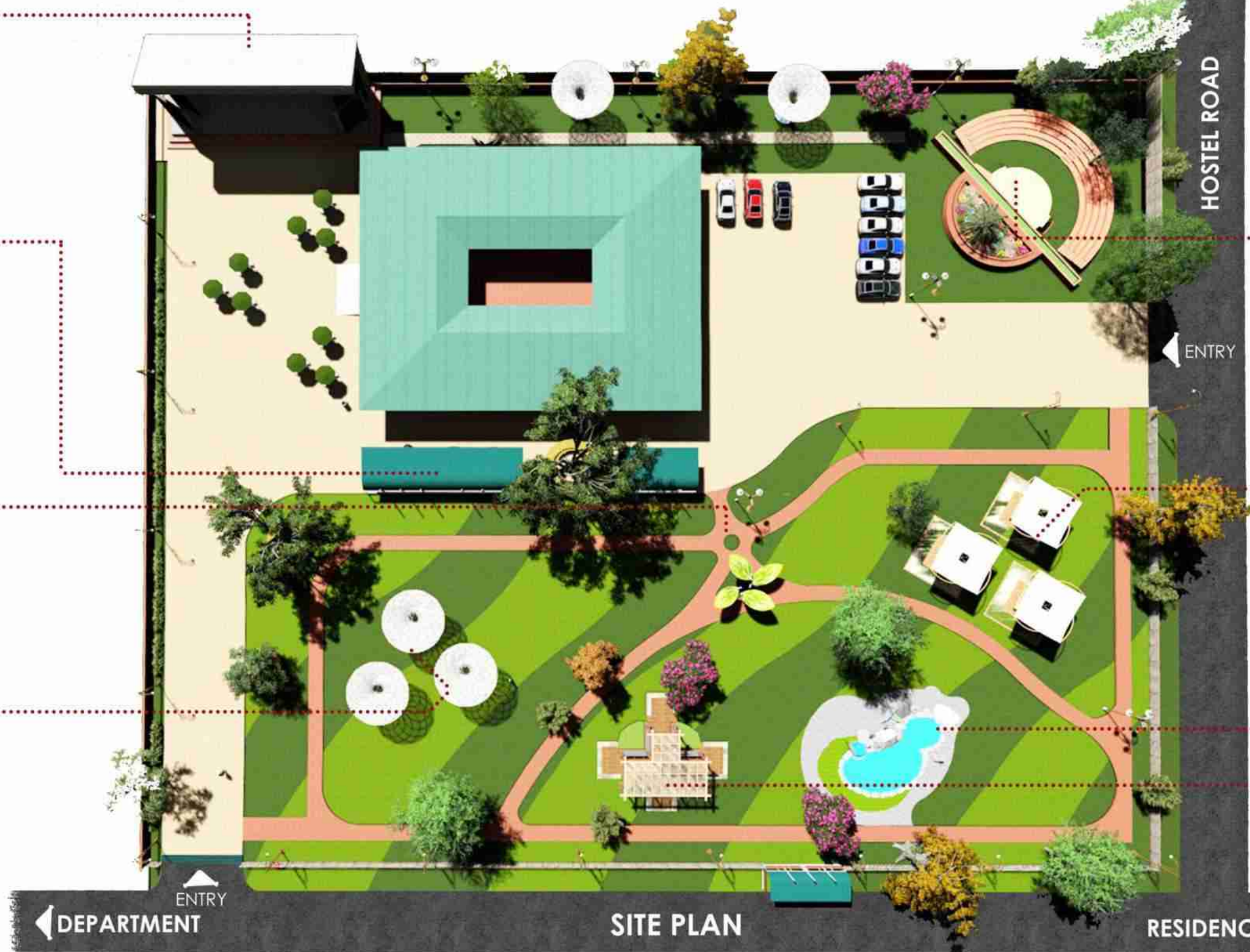
Dedicated parking for two wheelers and four wheelers



The path should be interesting to approach students and staff.



Attractive structures to create more interest in park.



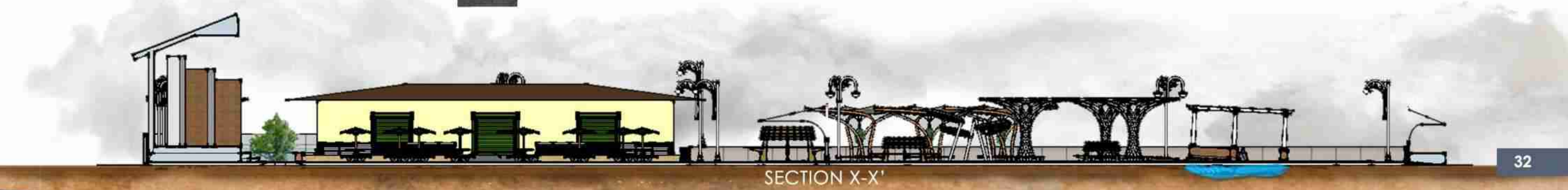
An OAT where students can gather, perform, practice for play.



A place where kids can play and students can gather for meetings



Attractive structures were used in park to attract its users.



INTERNSHIP SELECTED WORK

LOCATION
Sehore, Madhya Pradesh

PROJECT TYPE
Commercial

PROJECT NAME
Hotel, Sehore

06.1

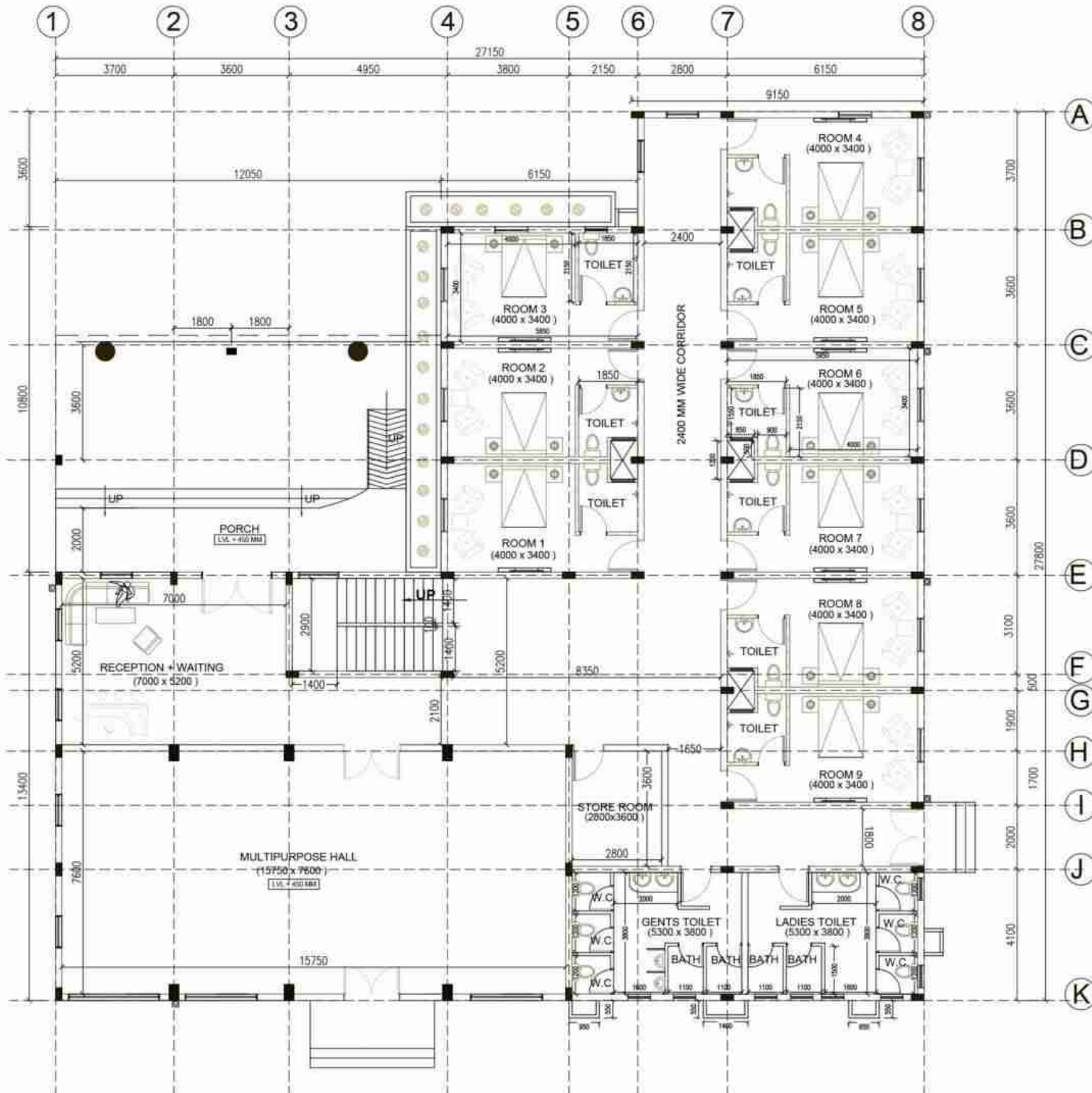
ABOUT PROJECT :

The aim of this project was to design a Hotel Building, which was a part of Marriage Garden. The site is located in Sehore which is 50 kms from Bhopal city. This hotel is designed to look modern to attract more users.

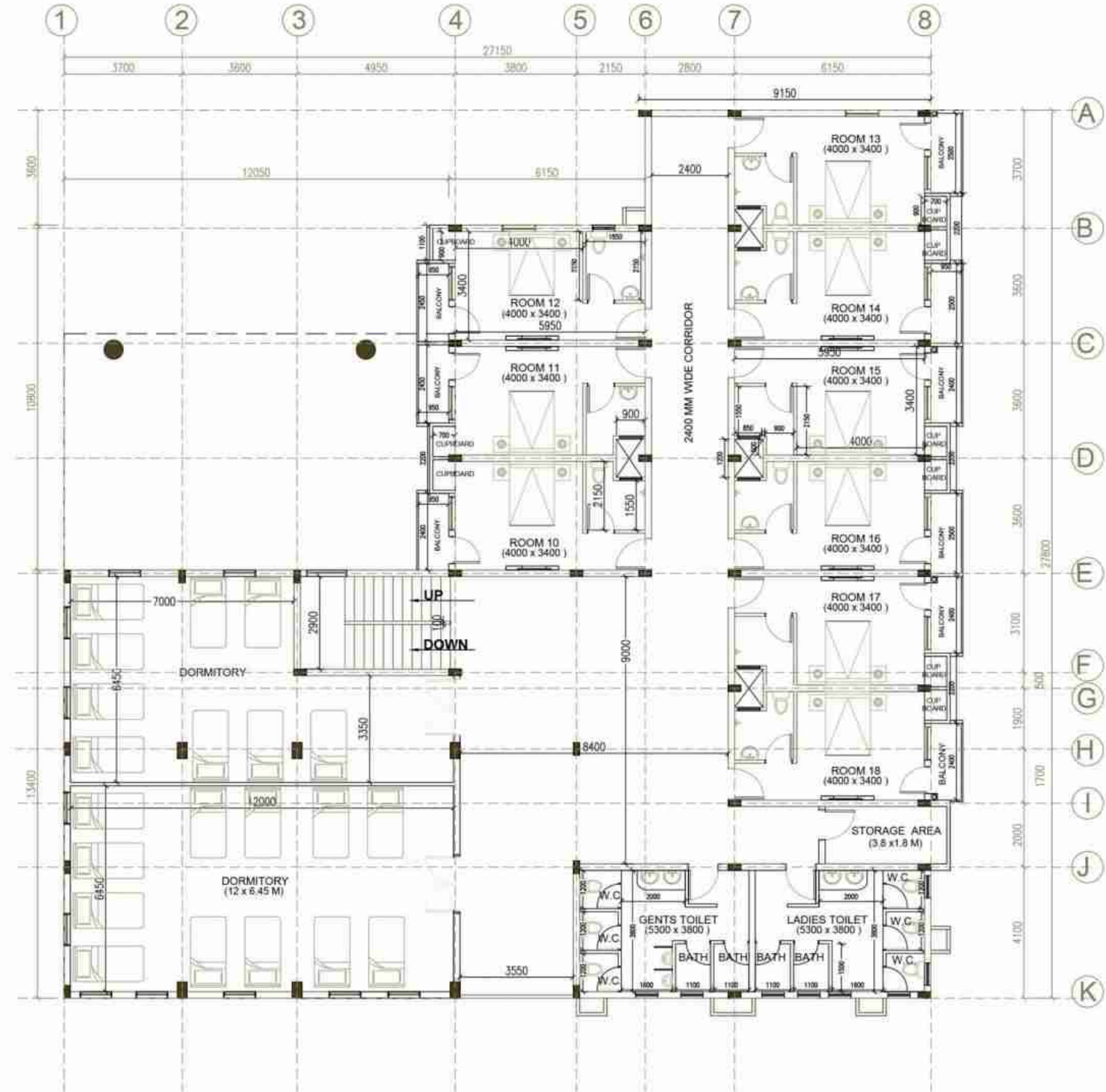
This hotel features a double heighted porch with coffer slab to give an impression of grand entry to building. The windows are shorter in width and longer in height as per climatic condition. This hotel has 18 rooms, one Multipurpose hall and two dormitories.

Role in this project :

- * conceptualization and planning of spaces
- * 3D visualisation
- * Working Drawing
- * Site layout
- * Meeting with client



GROUND FLOOR PLAN



FIRST FLOOR PLAN



WEST SIDE ELEVATION



SOUTH WEST SIDE ELEVATION



SITE VIEW

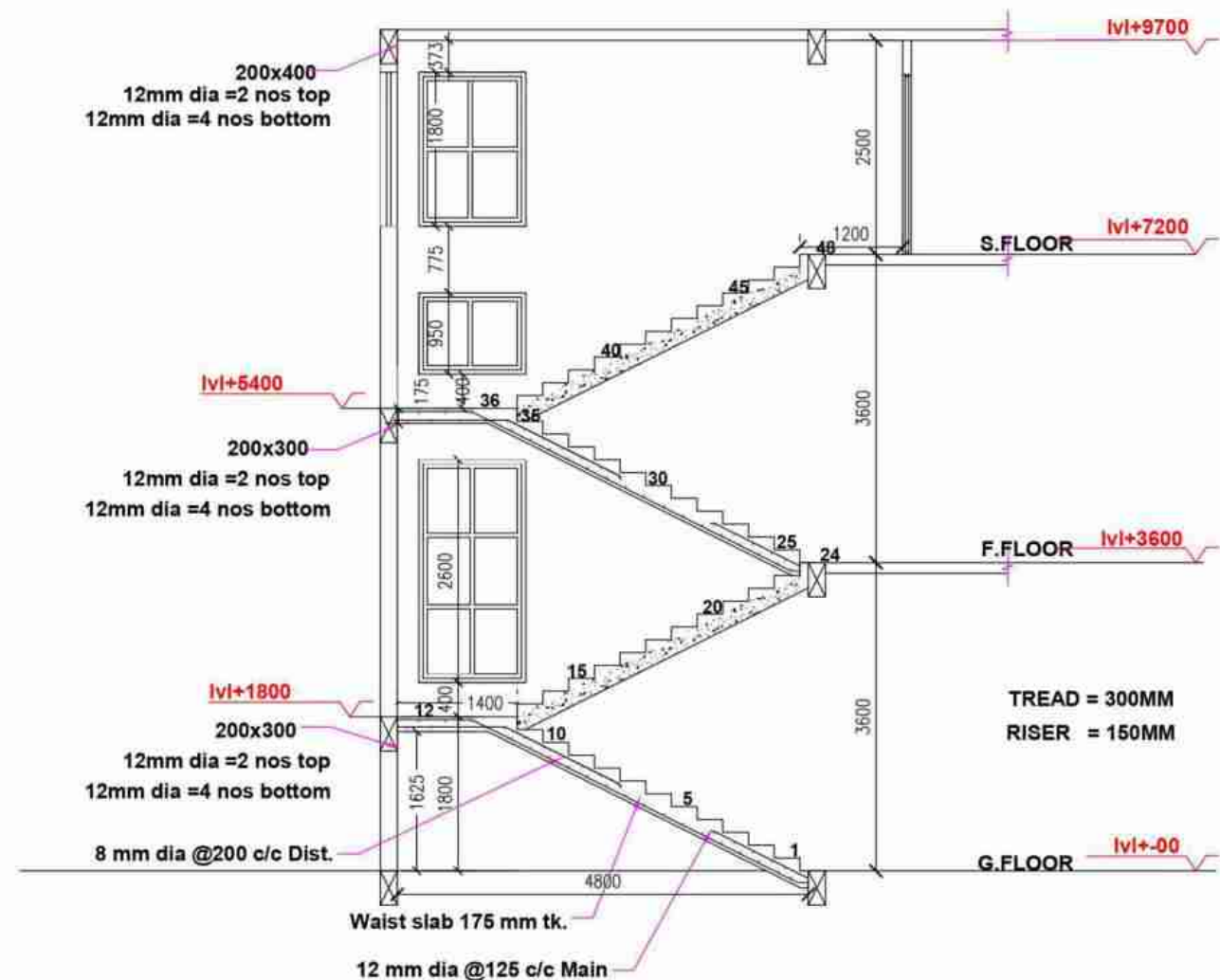
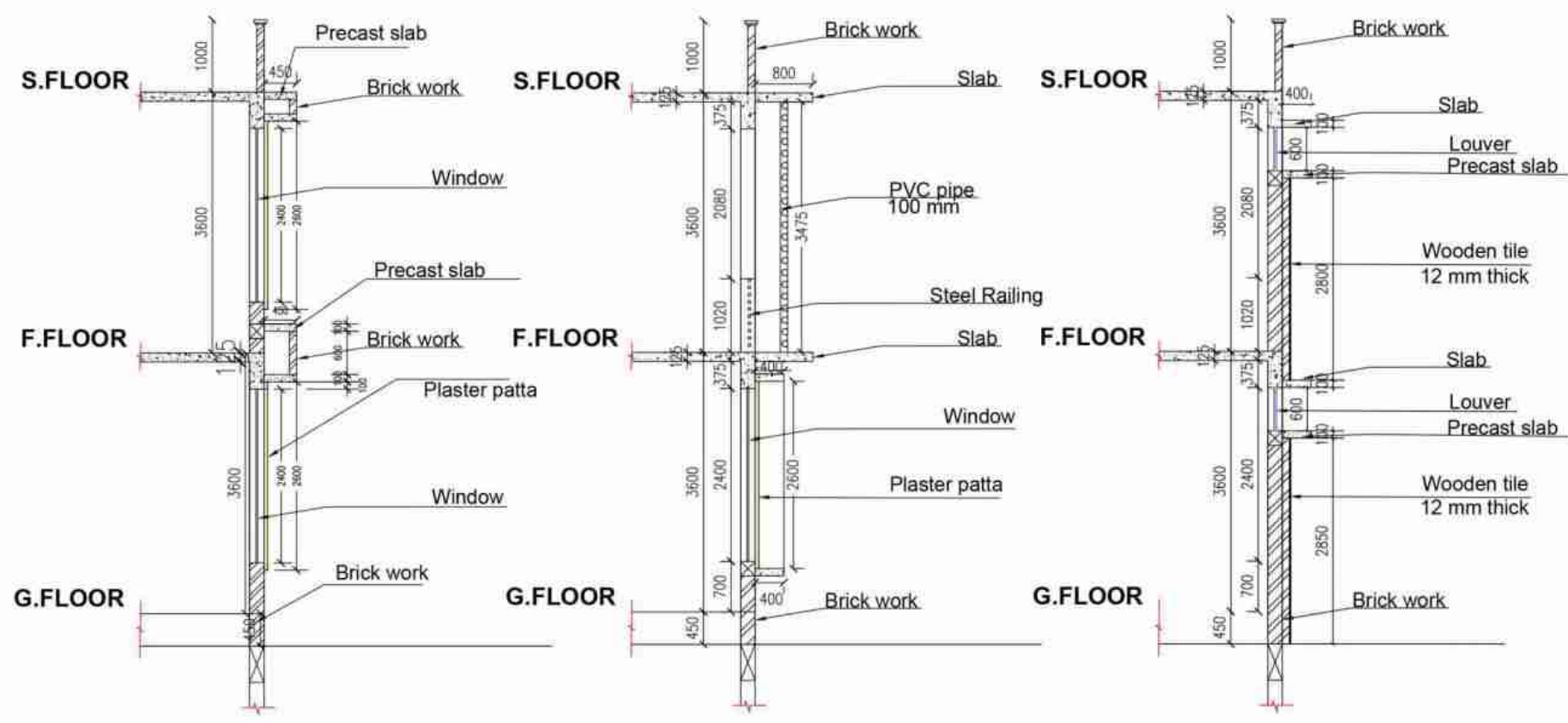
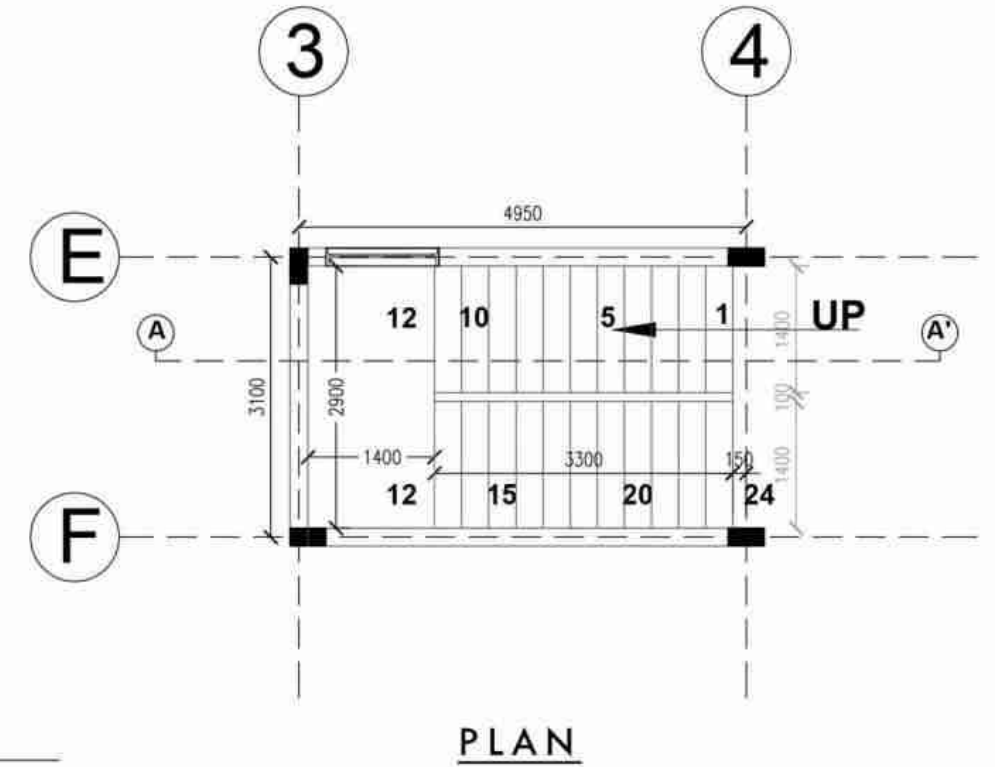


SOUTH EAST SIDE ELEVATION

ELEVATION AND SECTION DETAILS



STAIRCASE DETAILS :



INTERNSHIP SELECTED WORK

LOCATION
Bhopal, Madhya Pradesh

PROJECT TYPE
Commercial, Interior design

PROJECT NAME
M.P. Online (I.T. Office)

06.2

Role in this Project:

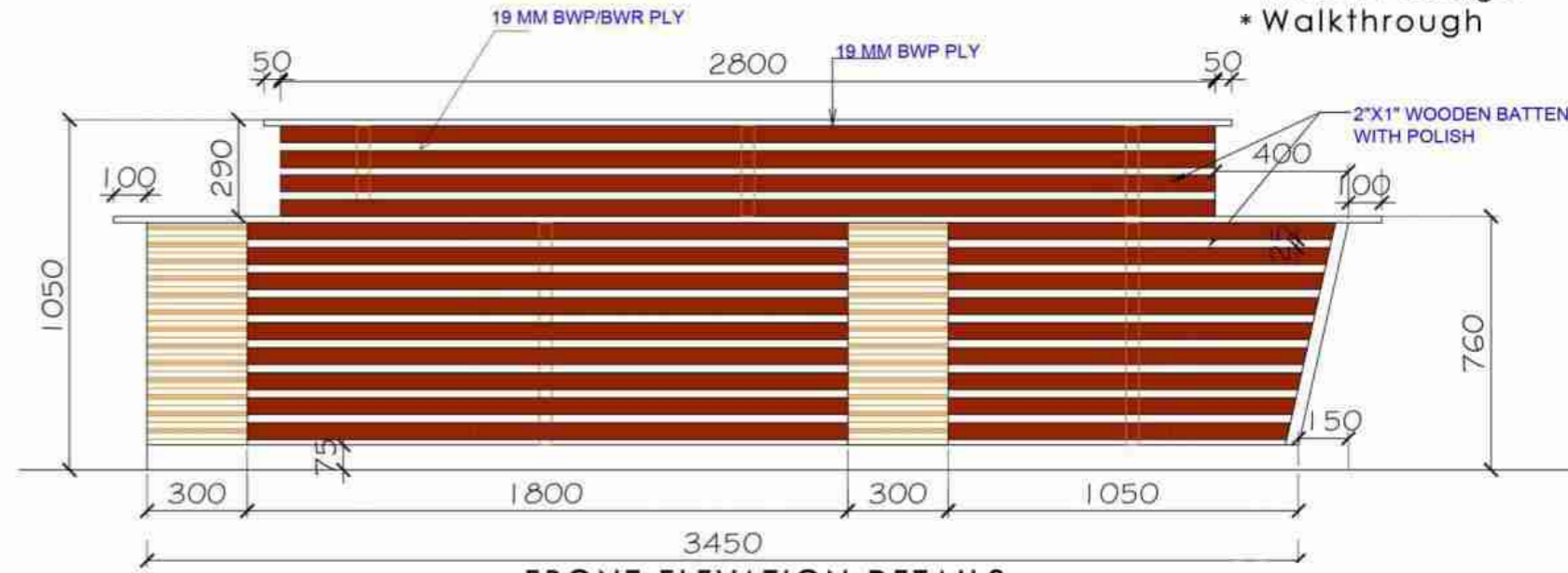
- * 3D Visualisation
- * Furniture Design
- * Interior design
- * Walkthrough

ABOUT PROJECT :

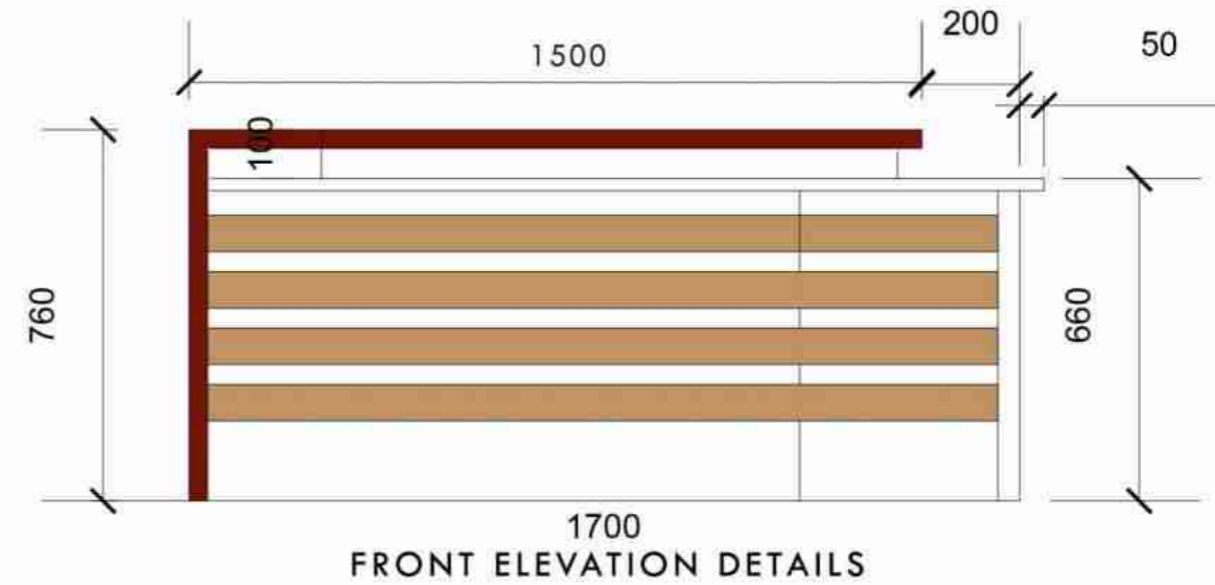
This is an Interior Design Project of M.P Online's corporate office at Bhopal, Madhya Pradesh. The total area of the office is 14000 Sq.ft.



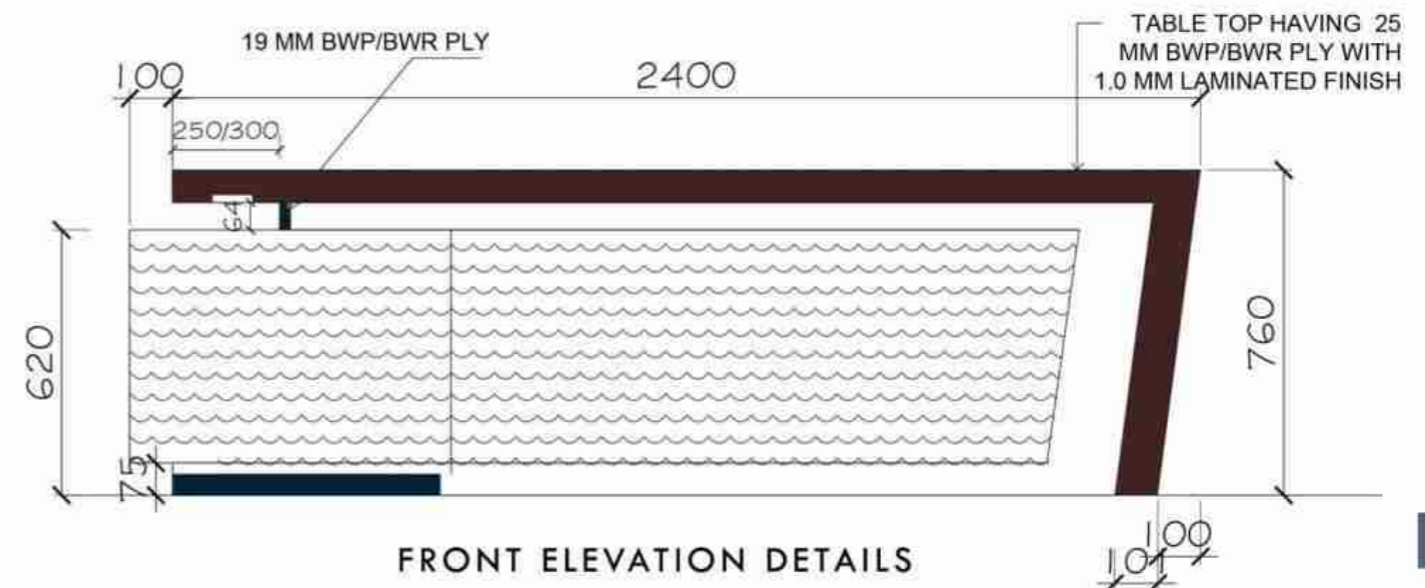
RECEPTION'S DESK



DESK AT CALL CENTRE



CHAIRMAN'S DESK





RECEPTION



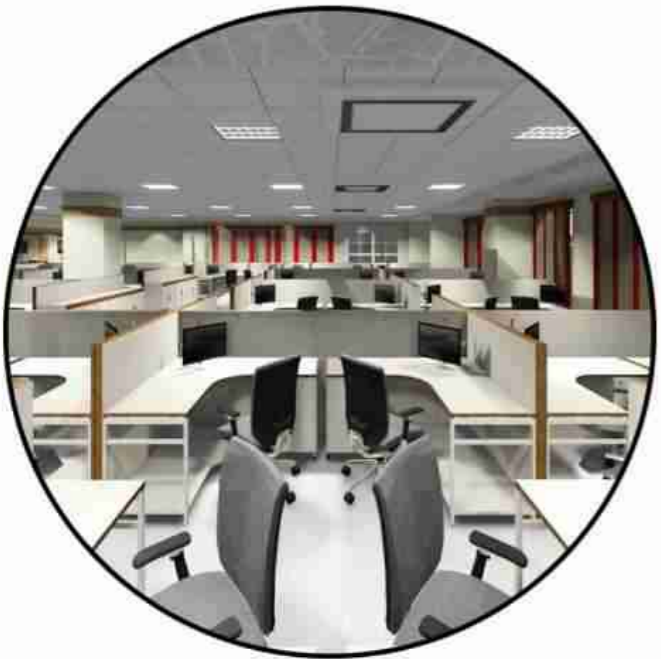
WAITING AREA



MEETING ROOM



LOBBY



WORKSTATION -1



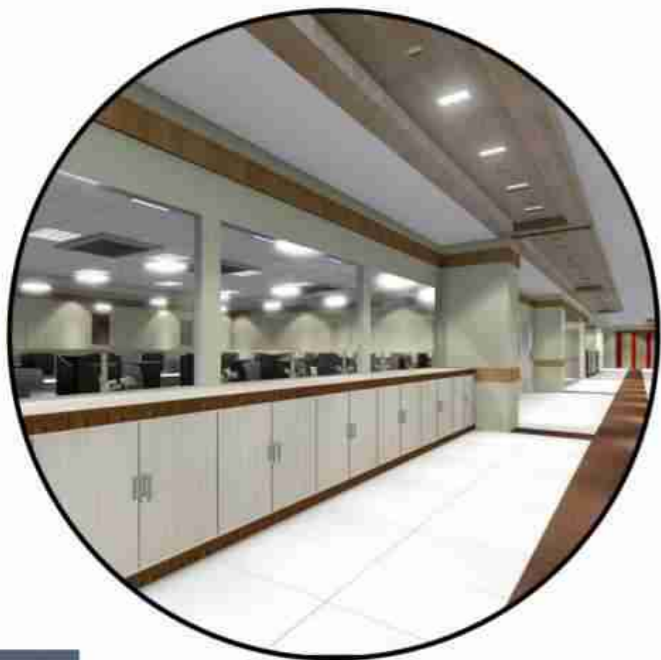
CONFERENCE ROOM



C.O.O ROOM



CHAIRMAN ROOM



LOBBY + STORAGE



WORKSTATION-03



CALL CENTRE



CALL CENTRE

Role in this project :
3D visualisation



ALTERNATIVE 01





GRAFFITI ON COLLEGE WALL



LOGO DESIGN FOR A FACEBOOK PAGE



BAMBOO SHED, SIT OUT STRUCTURE BUILT FOR TECHNOSEARCH 2013



ORIGINALLY COLORED TRANSLUCENT PLASTIC BOTTLES WERE USED FOR SHADING





THANK YOU

SUSHANT VERMA

Nit Bhopal

Contact No.- 7415230237

Email ID - Ar.sushantverma19@gmail.com

