

<u>DESIGN OF</u> <u>HAJ HOUSE PROPOSED IN VARANASI</u>

Thesis submitted to the Department of Architecture, BBD UNIVERSITY, Lucknow in partial fulfillment for the award of the degree of

BACHELOR OF ARCHITECTURE BY MOHD FAHAD

UNDER THE GUIDANCE OF AR ARVIND KUMAR SINGH

DEPARTMENT OF ARCHITECTURE, BBDU, LUCKNOW



DEPARTMENT OF ARCHITECTURE
BABU BANARASI DAS UNIVERSITY, LUCKNOW



Department Of Architecture BABU BANARASI DAS NATIONAL INSTITUTE OF TECHNOLOGY & MANAGEMENT, LUCKNOW (INDIA)

I hereby recommend that the project under my supervision by Mr. **MOHD FAHAD** entitled "**HAJ HOUSE** at **VARANASI**" be accepted in partial fulfillment of the requirements for the degree of Bachelor of Architecture.

DR.MOHIT KUMAR

(DEAN OF ARCHITECTURE)

Ar. ARVIND KUMAR SINGI (THESIS GUIDE		1000	r SANGEETA SHARMA EAD OF DEPARTMENT)
Ar. URVASHI SINGH	Ar SHAILI	ESH YADAV	
(THESIS CO-ORDINATOR)	(THESIS CO-O	RDINATOR)	(INTERNAL EXAMINER)
	CIEVE IN SHA	PING GENE	

(EXTERNAL EXAMINER) (EXTERNAL EXAMINER)

(INTERNAL EXAMINER)

ACKNOWLEDGEMENT

THE JOURNEY WHICH STARTED 5 YEARS AGO HAS CULMINATED. AS I STEP INTO THE WORLD A SERIES OF PEOPLE FLASH IN MY MEMORY WITHOUT WHOSE SUPPORT AND GOOD WILL THIS JOURNEY WOULDN'T HAVE BEEN EASY AND FREE FLOWING...

THE FIRST AND FOREMOST GRATITUDE TOWARDS ALMIGHTY **GOD** FOR HIS BLESSINGS. WHO BESTOWED UPON ME THE COURAGE, PATIENCE AND STRENGTH TO EMBARK THIS WORK AND CARRIED IT TO ITS COMPLETION.

IT IS A GOOD FOPRTUNE AND A MATTER OF PRIDE AND PRIVILEGE FOR ME TO HAVE THE ESTEEMED SUPERVISION OF **AR. ARVIND KUMAR SINGH** (GUIDE). WHO HAS INCULCATED IN ME THE INTEREST AND INSPIRATION TO UNDERTAKE THIS PROJECT OF **HAJJ HOUSE IN VARANASI**. IT IS ONLY HIS PERSONAL INFLUENCE AND EXPERT GUIDANCE AND BONDLESS SUPPORT THAT ENABLED ME TO COMPLETE THE WORK IN THE PRESENT FORM.

I SHALL ALSO LIKE TO THANKS OUR DEAN **DR. MOHIT KUMAR**, **AR.SHAILESH KUMAR YADAV** (THESIS CO-ORDINATOR), **AR. URVASHI SINGH** (THESIS CO-ORDINATOR) FOR THEIR ENCOURAGEMENT, WORTHWHILE SUGGESTIONS AND CONSTRUCTIVE CRITICISM THROUGHOUT PROJECT WORK.

MY SPECIAL THANKS TO "MR ASHUTOSH MISRA" WITHOUT WHOSE CONSULT I WOULD NOT HAVE EVEN TAKEN THIS TOPIC. THANKS FOR HIM SUPPORT AND GUIDANCE.

I WOULD LIKE TO THANKS ALL MY DEAR FRIENDS BUT SPECIALLY THANKS TO ABDUL AHAD AND MANTASHA ANSARI (SAIMA).

FINALLY I EXPRESS MY INFINITE INDEBTEDNESS TO MY PARENTS, FOR THEIR LOVE AND AFFECTION AND GIVING ME ENTHUSIASTIC INSPIRATION AT EVERY STAGE OF MY LIFE. WITHOUT THEIR LOVE, BLESSING AND SACRIFICES, I WOULD PROBABLY HAVE NEVER SUCCEEDED IN CARRYING THROUGH THIS PROJECT WORK. I WOULDN'T ABLE TO COMPLETE MY THESIS WITHOUT BLESSINGS OF MY MOTHER MRS. (AZIZ FATIMA) AND MY FATHER (MR. ARSHAD ALI)

THIS THESIS IS DEDICATED TO MY BROTHER **ABDUL AHAD**, AND MY SISTER **ANAM ARSHAD**.

INTRODUCTION

- 1 A Building which provides all the concerned and necessary facilities to PILGRIMS FOR HAJJ is known as HAJJ HOUSE.
- It provides accommodation to the hajj bound muslim peoples.
- 3- Hajj pilgrims stay here before leaving for hajj.
- 4- Accomodation of Pilgrims -: *Official activities such as passport, immigration and banking (exchange foreign currency).
 - *Performing the namaz, dinning activity is also performed in HAJJ HOUSE.



HAJJ HOUSE, GHAZIABAD

- WHY THIS PROJECT

- 1) If we provide a Hajj house in Varanasi, the requirement of Hajj house for Haj Pilgrims
- From the near areas (i.e, johnpur, Ghazipur and pratapgadh) will be fullfilled because
- 3) There is no Hajj house in the Eastren UP, and better facility will be provide for pilgrims.

NEED OF HAJ HOUSE IN VARANASI

- 1- Since there is no hajj house for hajj pilgrims in the near vicinity of varanasi, they are needed to travelt to Lucknow and.
- 2- If we provide a haj house in varanasi, the no need to travel the long distance and requirement will be fulfilled in near area (Ghazpur, johnpur and pratpgadh etc).
- 3- There is no Hajj House in the whole Eastern UP areas Else than lucknow.



MASJID - E - NABWI

HAJJ HOUSE, HYDERABAD



HAJJ COMMITTEE OF INDIA

HAJJ HOUSE, MUMBA

- Hajj committee of India is a government body which arange all the concerned facilities related to Hajj pilgrims and to coordinate with the pilgrims and saudi airlines, during the hajj.
- The maximum number of HAJJ pilgrims are going from UP in 2017 arround 27,425 pilgrims went for hajj Arround 4,375 pilgrims went for Hajj in 2017 from varanasi.
- Presentally 1,36,020 Pilgrims are going from India in which arround 1,23,700 are going through the HAJJ COMMITTEE and 12,320 people going from the PRIVATE TOURS AND TRAVELLS.



HAJJ HOUSE, LUCKNOW

HALL HOUSE VARADASI

THESIS GUIDE: AR. ARVIND KUMAR SINGH

- AIMS

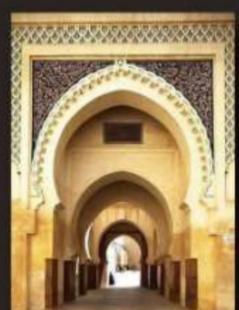
- The aim of this project is to recide the haj pilgrims before leaving to MECCA and on returning from MECCA.
- To provide the best facilities and convenience to the Hajj Pilgrims.
- To make arrangement for boaeding and lodging for about a month.

- OBJECTIVES

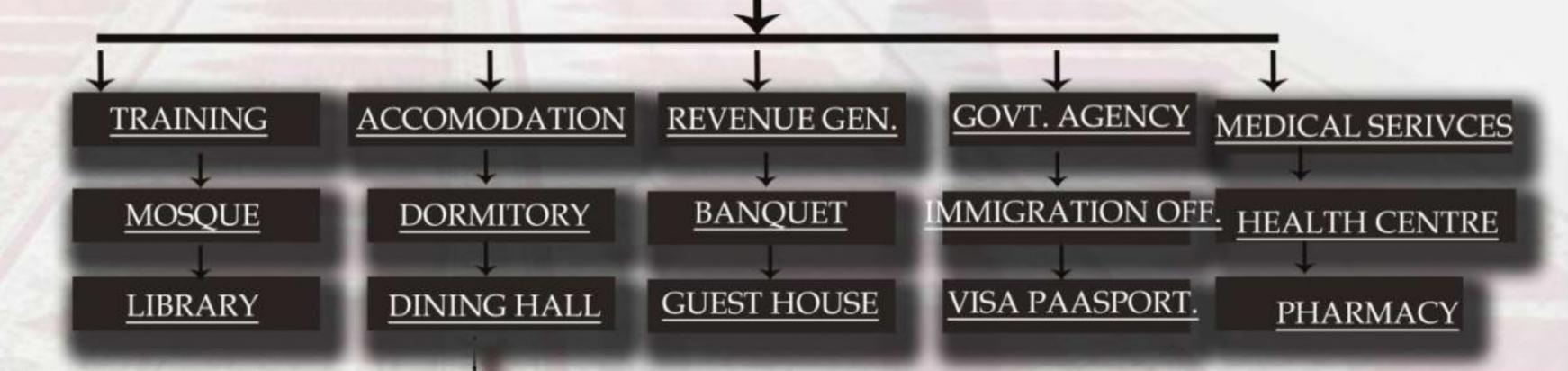
- The study of islamic architecture provides us an ideal opportunity to understand what is architectureal foarms and elements.
- Understand the elements of islamic architecture i.e, DOMES, VAULT and ARCHES.

- METHODOLOGY

- Project formulation
- Data collection
- Case studies
- Site analysis
- Climatic study
- Concept design
- Detailed design proposal



FUNCTION OF A HAJ HOUSE



RELEVANT CASE STUDY

- 1- HAJJ HOUSE, LUCKNOW.
- 2- HAJ HOUSE, DELHI.



DOME



HA.J.J HOUSE VARADASI

HAJJ HOUSE, LUCKNOW

THESIS GUIDE: AR. ARVIND KUMAR SINGH

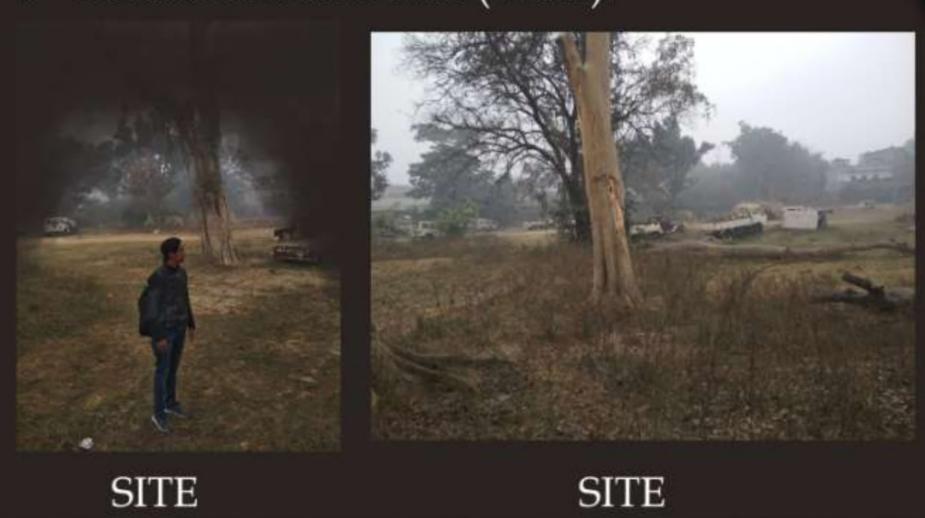
SITE ANALYSIS

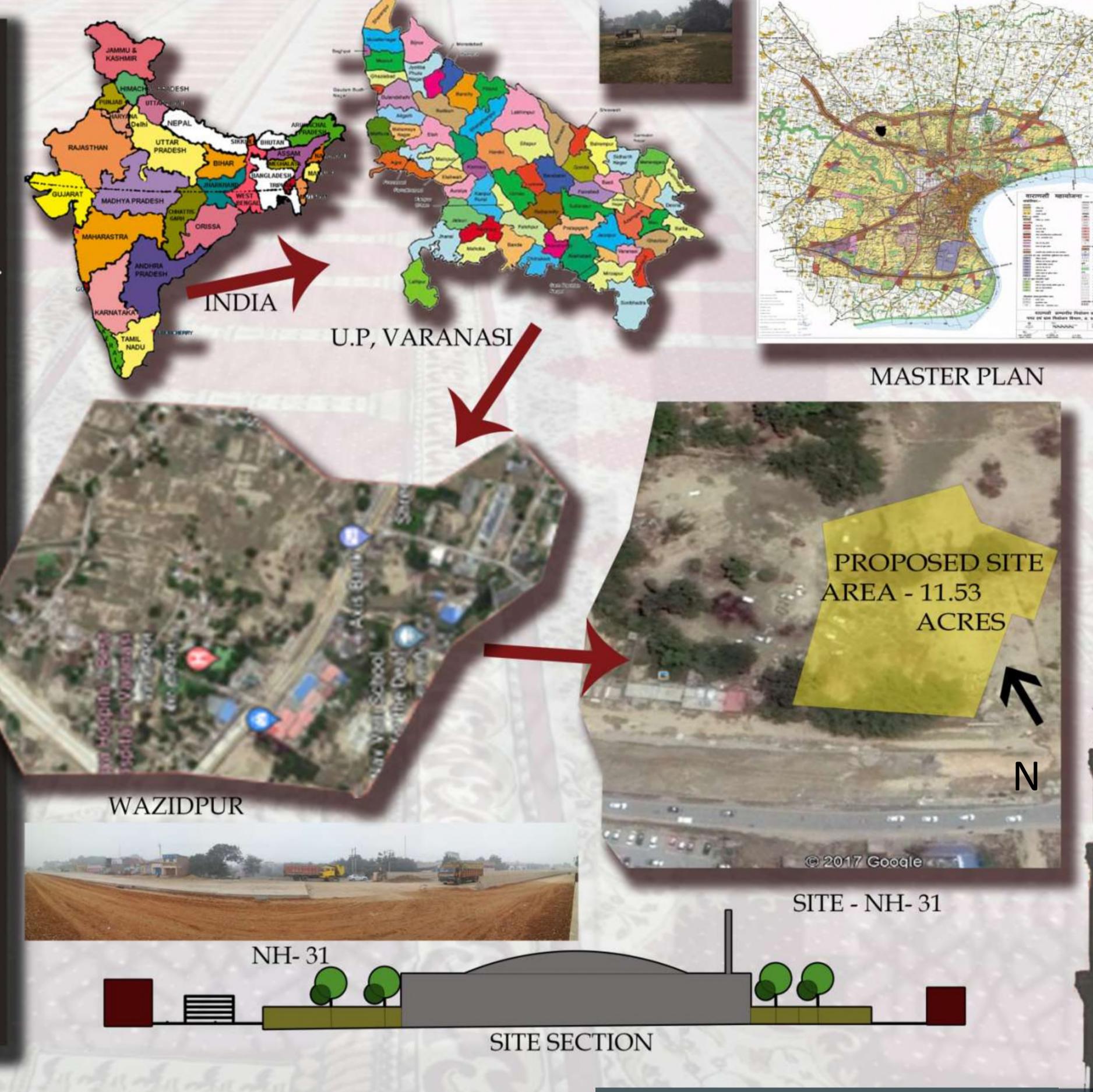
- INTRODUCTION

- 1- Varanasi is located in the part of the ganges valley of north india, in the eastern part of Uttar Pradesh, along the left crescent- shaped bank of gangaaverage between 50ft, and 70 ft.
- 2- Varanasi is one of the oldest living city in the world.
- 3- Varanasi is also knows as Banares and kashi, THE CITY OF LIGHTS.

- SITE LOCATION

- 1- Site is located 11 km near the Bus stand, 10 km from the varanasi cantt railway station and 10 km from the airport
- 2- Site is located in front of Volkswagen and Raj mahindra, and Pragya hospital in west side of the site.
- 3- Access road on 1 side (front).





HLA.J.J HLOUSE VARADASI

- CLIMATE TYPE

1- COMPOSITE CLIMATE

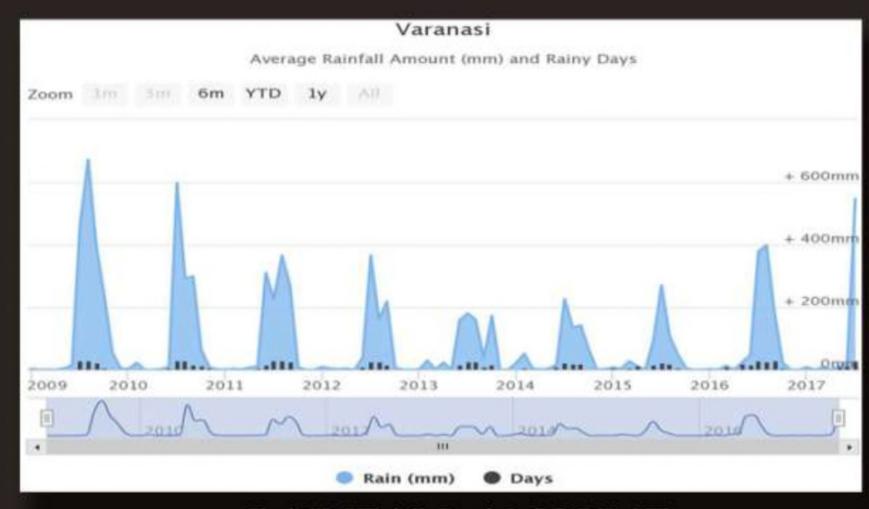
- 2- Varanasi experience a large variations between summer and winter temperatures.
- 3- The dry summer starts in april and last until june.
- 4- Winter in varanasi see very large day by day variations, with warm days and downlight cold nights. Fog is common in the winters while hot and dry winds called loo, blowing in the summer.

- WATER LEVEL

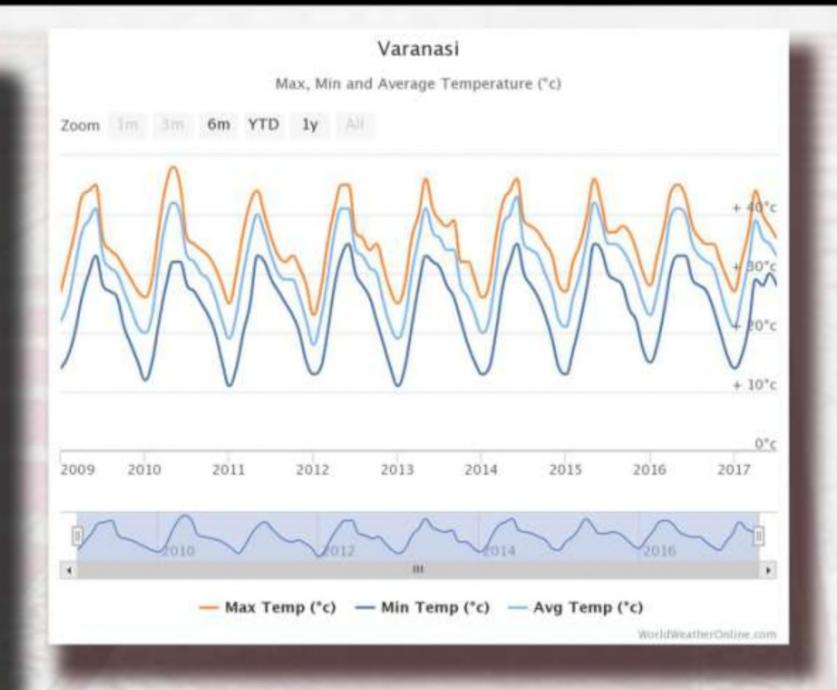
- 1- The annual deplition rate of ground water in the city is 75cm to 90 cm.
- 2- In the past five years, the ground water table has gone down to 10 20 meter from 15 16 meters in te urban area of Varanasi.

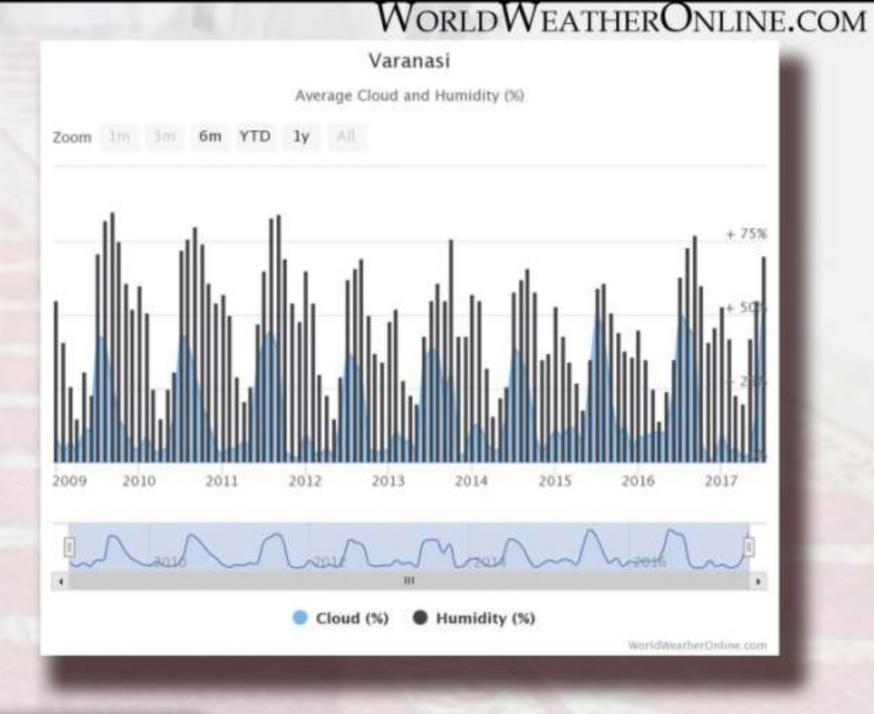
- SOIL TYPE

- 1- The soil of the site is ALLUVIAL or yellow Clayely Soil of comperative Strength.
- 2- 10 to 12 T/m^{2 in} normal load condition.



RAINFALL AMOUNT





MIN, MAX AND AVERAGE TEMPERATURE

- TEMPERATURE

CLOUD AND HUMIDITY

- 1- The temperature ranges between 22 46 degree C in the summer, 6 degree C in the month of december to feburary.
- 2- Almost 80% of the year the direction of the preveiling wind if form north west to south east direction. Changes in the preveiling wind at the beginning of the warm and humid season bring rain and cloud.
- 3- The best orientation of the building will be north to south direction.
- The higest relative humidity is recoded in the month of july, august and september 70 80%. The lowest relative humididity recoded in the month of March, April and May.
- 5- Heavy rainfall occurs in the month of July and August 240 290mm for 20 days approx. Lowest rainfall occurs in the month of March, April< november and December 4 9mm for 1 2 days.



SITE (EAST DIRECTION)

HAJJ HOUSE VARADASI

- BYE LAWS

- 1- Permisible Grond Coverage 35%
- 2- Permisible F.A.R 1.5
- 3- According to AAI, height of building is 10 Mts.
- 4- The ramp should be 1:10
- 5- Front set back 9 Mts.
- 6- Rear set back 6 Mts.
- 7- Side Set Back 6 Mts.
- 8- Landscape should be done 20% of the total area of site.



EAST SIDE



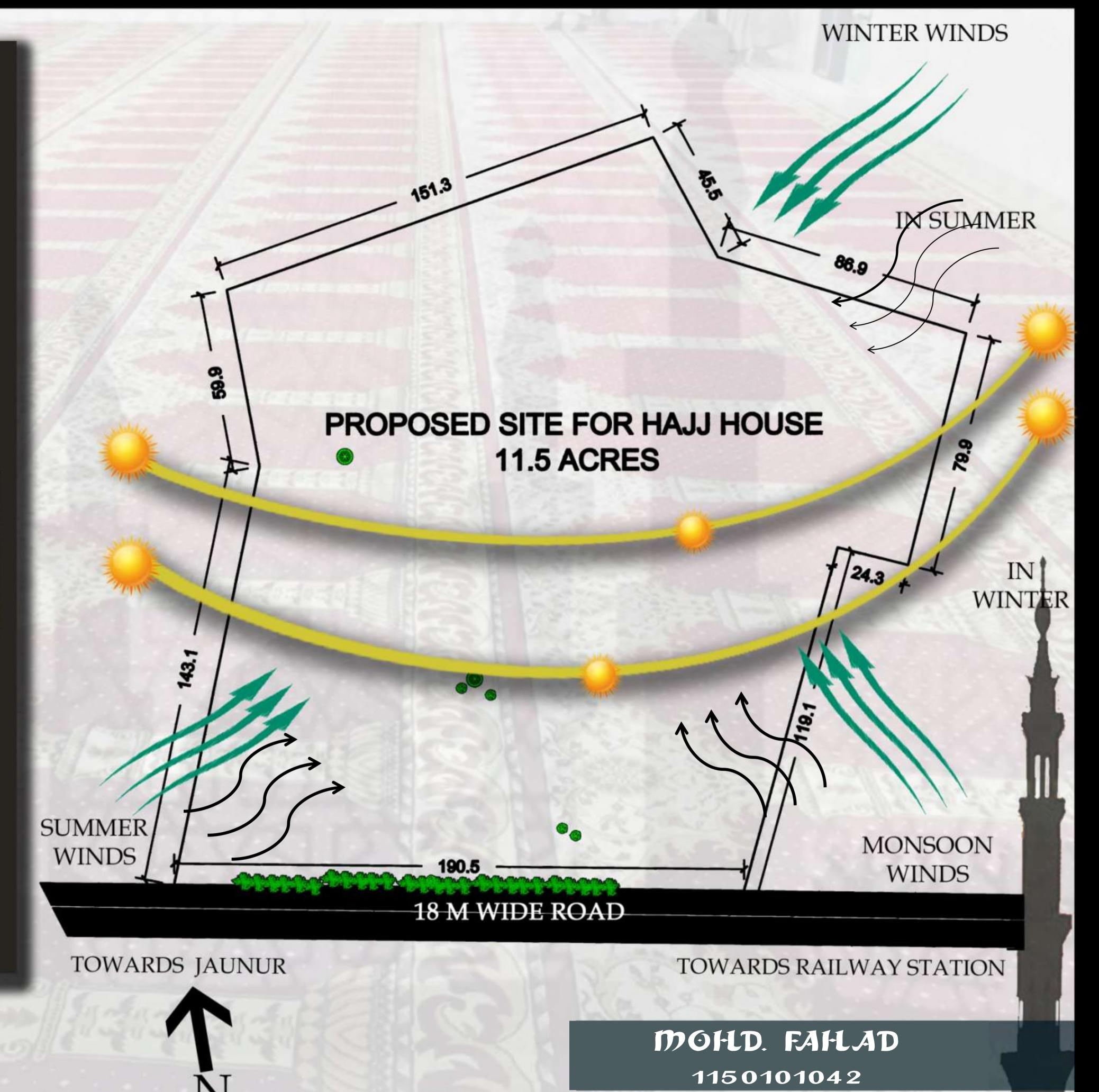
NORTH SIDE



WEST SIDE



SOUTH SIDE



HAJJ HOUSE VARADASI

- VEGETATION

Inside the site there is 5 Sheesham tree
 Neem trees and bamboo trees in front side of the site.

- TOPOGRAPHY

1- The site is usually Flat and and the slope of site in South side of the site (NH - 31).

- SERVICES

- 1- The site has electric poles on the front of the site.
- 2- Water will be supplied by the municipal auhority of varanasi.
- 3- Dranage line will be given.
- 4- Sewage line is present in the along the NH 31.



UNDER GROUND ELECTRIC WIIRES



TOWARDS HIGHCOURT

NH - 31

TOWARDS JOHNPUR

NH - 31



EAST SIDE



WEST SIDE



ELECTRIC POLE



SOUTH SID

- INFERENCES

- 1- CROSS VENTELATION SHOLUD BE DONE PROPERLY.
- 2- PLACEMENT OF BUILDING SHOULD BE DONE IN NORTH AND SOUTH DIRECTION.
- 3- 20 40% MEDIUM OPENING SHOULD BE GIVEN.
- 4- HEAVY EXTERNAL WALLS SHOULD BE GIVEN FOR THE REDUCE HEAT TRANSMITTION INSIDE THE WALL.
- 5- HORIZONTAL AND VERTICAL SHADING LOWERS CAN BE USED.
- 6- TREES SHOULD BE PLANTED TOWARDS WEST AND SOUTH SIDE.



TOWARDS HIGHCOURT

HAJJ HOUSE VARADASI

- LOCATION

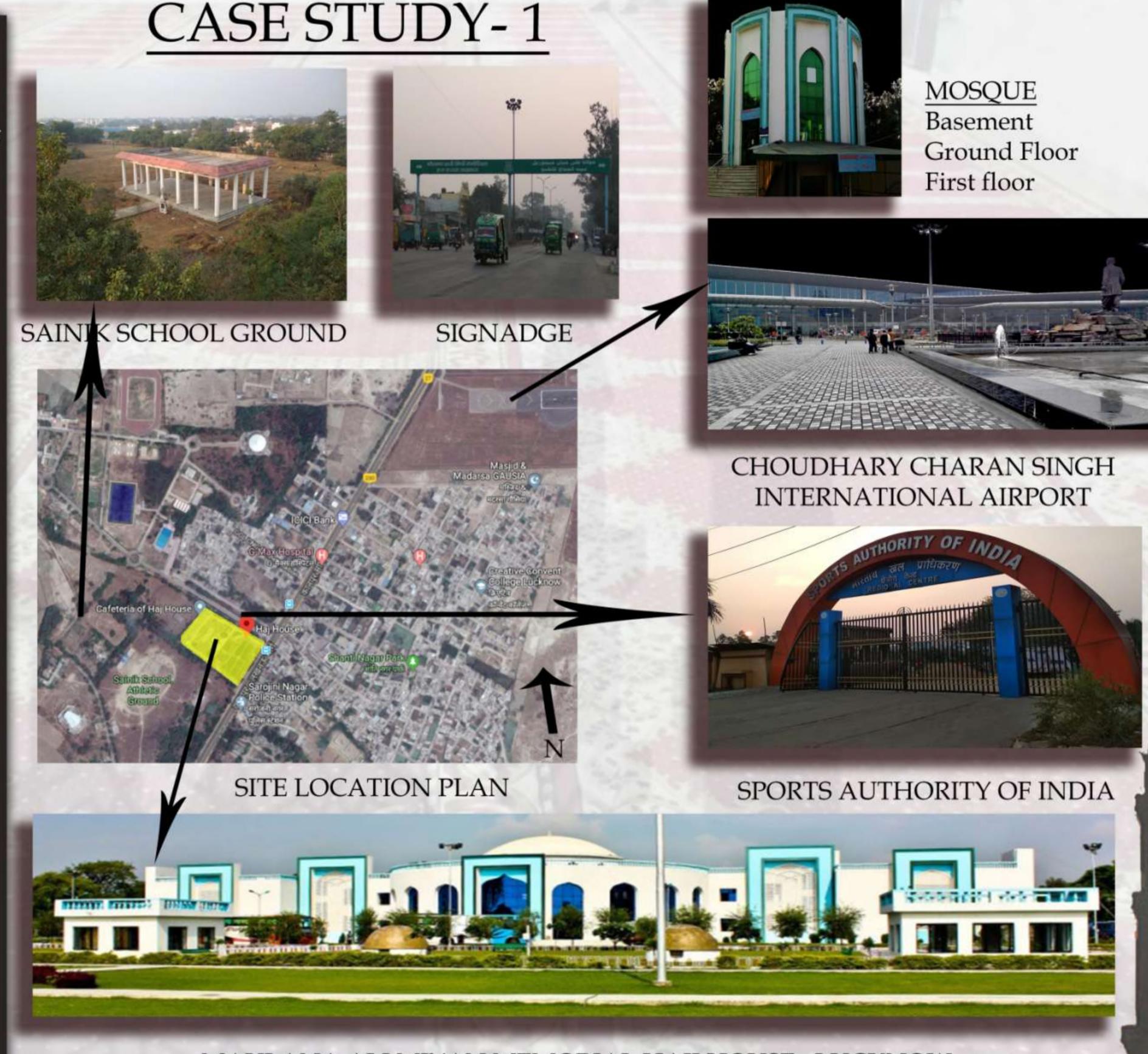
- 1- The Hajj House is located near CHOUDHARY CHARAN SIGH INTERNATONAL AIRPORT, kanpur road, sarojni nagar, Lucknow.
- 2- It is 2.2 KM from AIRPORT, 5 km from ALAMBAGH BUS STAND and 8 KM from CHARBAGH RAILWAY STATION.

- PROJECT DETAIL

- 1- Client Government Of Uttar Pradesh.
- 2- Architect Ar. Faraz USmani.
- 3- Site Area 9.9 Acres.
- 4- Capacity 1200 Pilgrims.

- STATE HAJJ QUOTA

- 1- It Accomodates the pilgrims comming from the other Districts of U.P (central districts like Ambedkar Nagar, Auriyya, Badayun, Balrampur, Banda, Barabanki, Bareilly, Basti, Amethi, Behraich, Chitrkoot, Etah, Etawah, Faizabad, Farrukhabad, Gonda, Hameerpur, Hardoi, Jhalun, Jhansi, Kannuj, Kanpur, Kasganj, Lakhimpur Kheri, Lalpur, MAhob, Manipur, Pilibhit, Pratapgarh, Rae Barelly, Ramabai Nagar, Shahjahanpur, Sitapur, Unnao, Sultanpur and Siddharth Nagar.
- 2 UTTAR PRADESH PILGRIMS QUOTA 32173.



MAULANA ALI MIYAN MEMORIAL HAJJ HOUSE, LUCKNOW.

HAJJ HOUSE VARADASI

- PLANNING FEATURES

- 1- Bacement parking for the staff, Visitors and officers is given, on site having 4 skylight for light and ventilation.
- 2- The building is planed arround the courtyard, along the with water body inside which has contain 72 abulition tap.
- 3- The central space is used for waiting area durig the arrival of the pilgrims from from respective districts.
- 4- The higher officer's office is placed on ground floor just near to the entrance of the main block.
- 5- Reporting offce block is seperated from the main block.
- 6-3 Meter wide corridor runs along the courtyard
- 7- In the mosque, the bacement is used for womens and groung floor or first floor is used for mens.
- 8- Others office and staff quaters has been provided in the east side of the site for police, telephones, nagarmigam, electricity and entrypass etc.





CAFETARIA BLOCK

ENTRANCE

HLA.J.J HLOUSE VARANASI

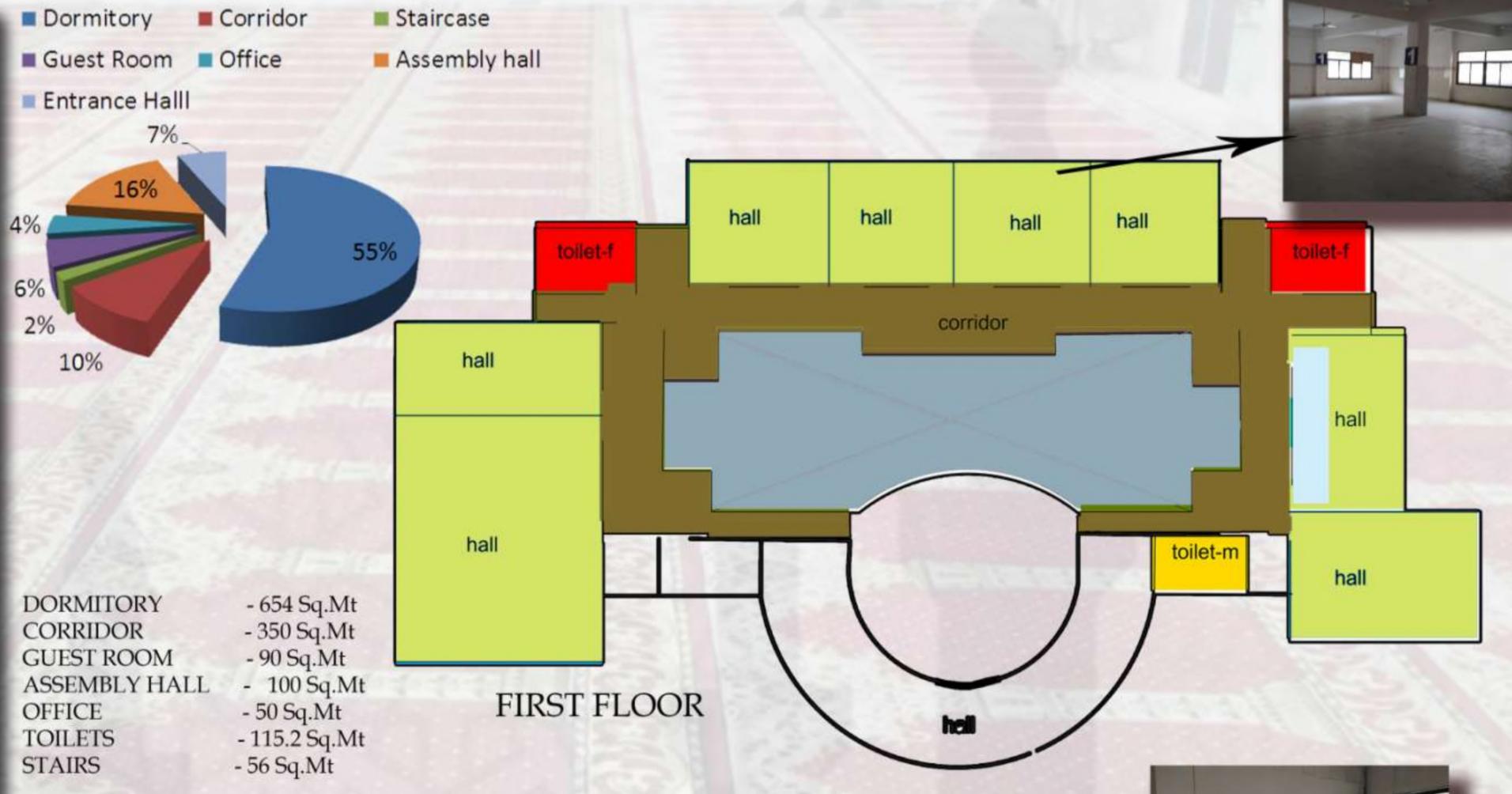


- SEVICES

- 1- 2 Septic tanks are given on site.
- 2- Two electricity line have benn taken on site 25kw and 89kw.
- 3- Provision for both indian and western toilets has ben given.
- 4- 4 Buses are parked on the south side of the site near the main block for taking the pilgrims to the airport.
- 5- 2 Water tanks of capacity is 20,000 ltr each.
- 6- 2 Ambulance and 1 fire sattion vehicle are present on the site during the arrival of pilgrims.
- 7- Fire existinguishers and pipes has been provided inside and outside the building.
- 8- Two ward room for men and women accomodates 3 patients each.
- 9- Water dranage line is present on site.
- 10- The plumbing pipes and drainage pipes were placed inside the duct.
- 11- Split a.c are provided for air conditioning of the offices and dormitories.



HAJJ HOUSE VARADASI





HOSE REEL



FIRE EXTINGUISHER

- AREA DETAILS

- 1- Ground coverage 30%
- 2- F.A.R: 1.5
- 3- Plot area: 9.9 Acres
- 4- Total buildup area: 49000 Sq.Mt
- 5- Office area: 403 Sq.Mt
- 6- Mosque (Men + Women): 500 Sq.Mt
- 7- Cafeteria: 438 Sq.Mt
- 8- Dormitories: 14222 Sq.Mt
- 9- Pantery: Dinning + Kitchen: 268 Sq.Mt
- 10- Rooms: 230 Sq.Mt
- 11- Toilet: 42 sq.Mt
- 12- Parking: 68 Cars + 25 Bikes + 5 Buses



LT PANNEL



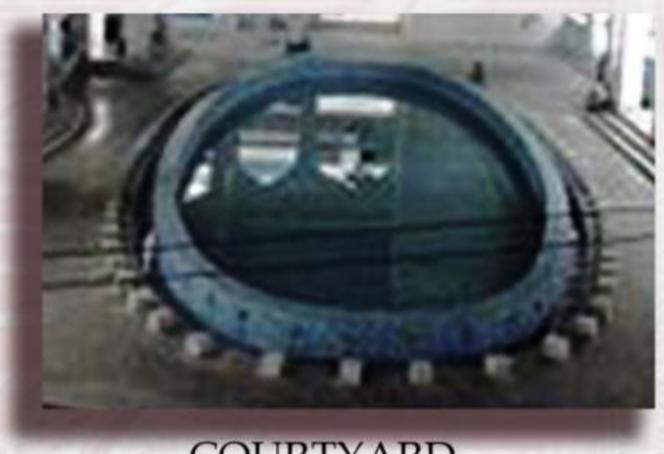
DB

- MERITS

- 1- Courtyard planning is suitable for the climate.
- 2- Rooms are easily approachable.
- 3- Central lobby can be used for taqreer and waiting area for visitors.
- 4- Proper ligte and ventilation.
- 5- All the necessary services are given on the site like fire fighting, drainage pipes and septic tank etc.
- 6- Windows provided enough light through the dome inside the building.

- DEMERITS

- 1- No ramp is given in the building.
- 2- No shade is provided over the window.
- 3- No facility of pantry or drinking area is given for the staff.
- 4- No ablution facility is given in the mosque.
- 5- No provision for handicapped.
- 6- The reporting ofice block should have been place near and before the main block which will be easily approached by the pilgrims and the attandant coming with him.
- 7- The clearance height of the ramp of the basement is too small for a bus to enter.



COURTYARD



CENTRAL LOBBY



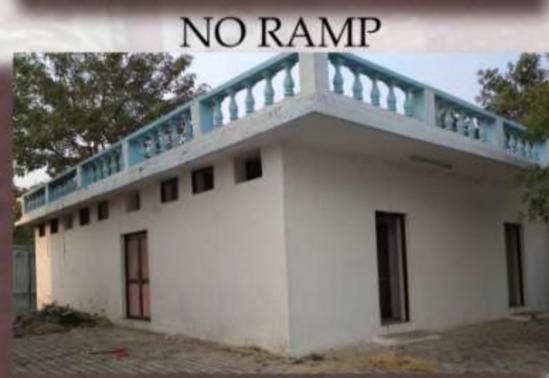
SPRINCLERS



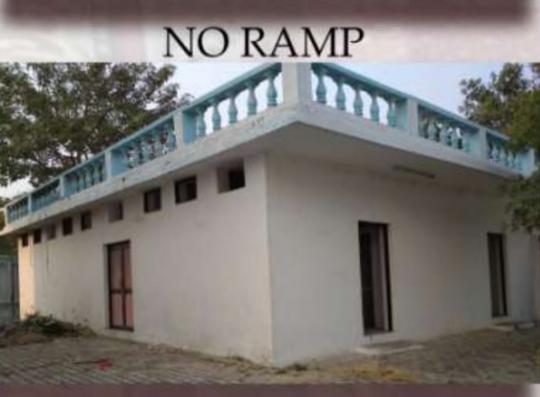
DAY LIGHT

HOZE REEL

COURTYARD



COMMON TOILETS





WINDOW

NO SHADESS ON



SHOPS



HEALTH ROOM



HANDPUMP

HA.J.J HOUSE VARADASI

- LOCATION

The Mosque is sitated to the west side of the site behind the main block of hajj house.

- DETAIL

- 1- Basement (WOMEN): 163.3 SQ.MT
- 2- Ground Floor (MEN): 163.3 SQ.MT
- 3- First Floor (MEN): 157.0 SQ.MT
- 4- Capacity: 500 PEOPLE.

- PLANNING FEATURES

- 1- It has a simple and compact circular plan of dia 14.6 M.
- 2- It is made up od RCC Column and Brick walls
- 3- It has a PLINTH of 1.3m from the ground.
- 4- The height of mosque about 10 M.
- 5- Staircase having a 0.3 M trace and 0.15M riser.



BASEMENT ENTRANCE

HLA.J.J HLOUSE VARADASI

MOSQUE

- MERITS

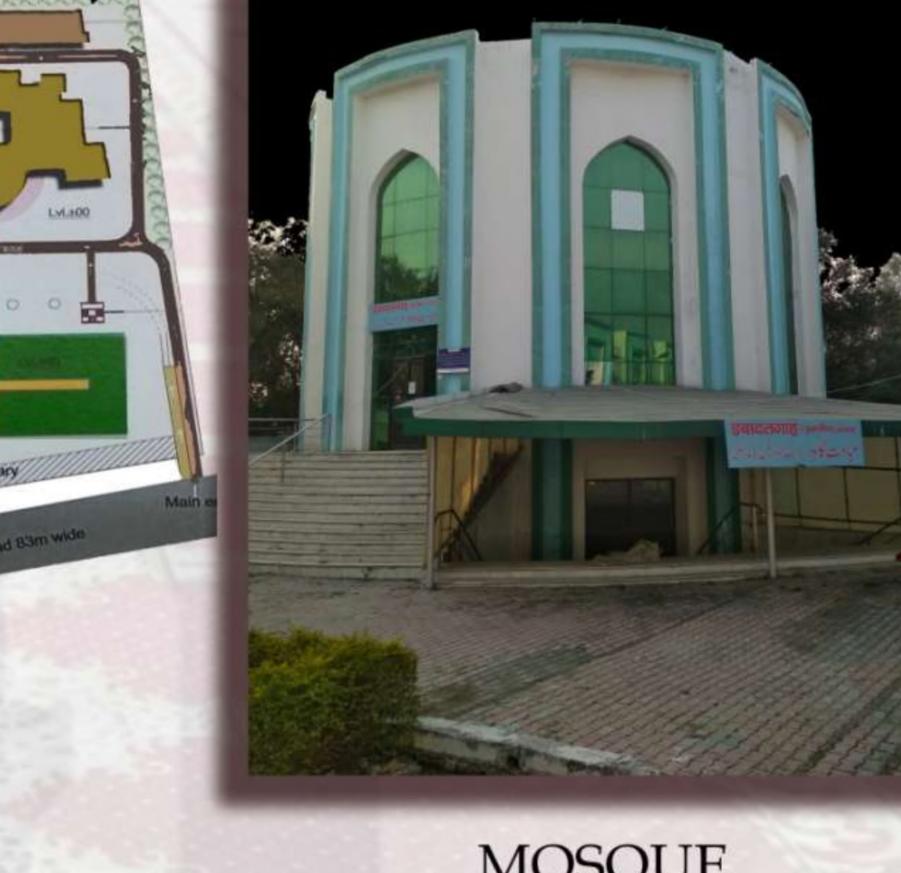
- 1- Segregation of women and men prayer hall through the floor.
- 2- Maximum use of natural light through the window on all the side.
- 3- Use of arches on the circumference of the Mosque.

- DEMERITS

- 1- No provision of ramp and no toilets.
- 2- No abulation facility inside the mosque.
- 3- No mehrab is made, i.e west direction toward quibla.
- 4- No shelves for shoes.



PRAYER HALL



MOSQUE







STAIRS

- INTRODUCTION

- 1- The hajj manzil, delhi establish by the Delhi government and hajj committee in 1989 with aim to give convenience and direction to Hajj pilgrims of delhi and another region of india to go to Jeddah by delhi.
- 2- As delhi as center point and no other city had International flight to jeddah at that time, therefore the hajj was built.
- 3- Every year thousands pilgrims use to goto Jeddah via Delhi.

- LOCATION

- 1- It is located in front of TURRAKMAN gate. It is 3 KM from the new delhi railway station and 22.5 KM from the indra gandhi airport.
- 2- The site has access from the ASIF ALI ROAD which is connected to the Delhi gate and chand mahal road.
- 3- Hajj mazil comes in the function of NEW DELHI and OLD DELHI

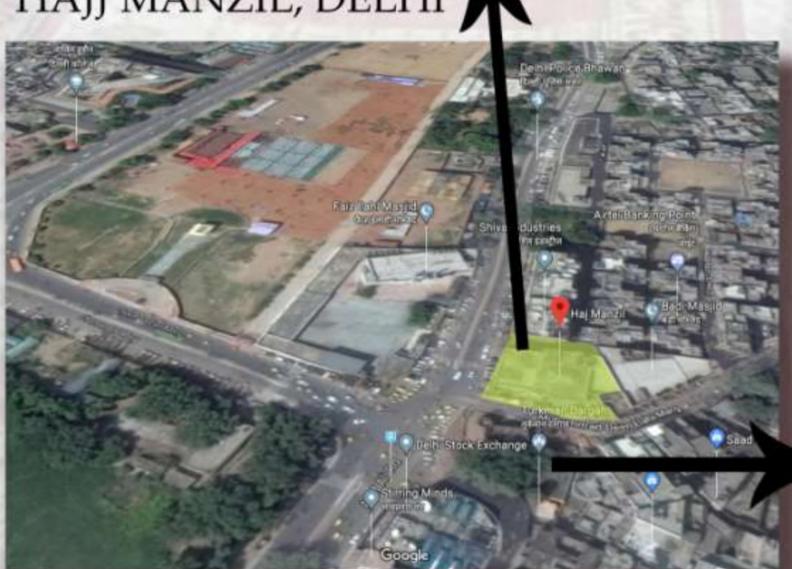
JI HOUSE, DELHI







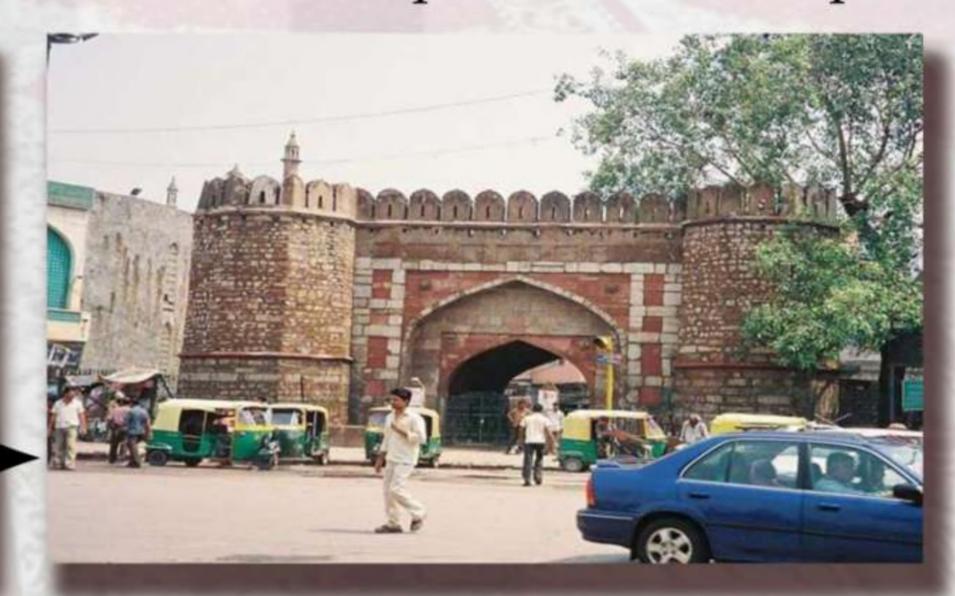
- 1- Client - Delhi government, hajj committee of Delhi.
- 2- Architect- Late Ar. Asima siddiqui
- 3- Total Plot Area 1090.4 Sq.Mt
- 4- Total Built up area 2610.8 Sq.Mt



LOCATION PLAN



STOCK EXCHANGE, DELHI



TURRAKMAN GATE



LOCATION PLAN

MOHD. FAHLAD 1150101042

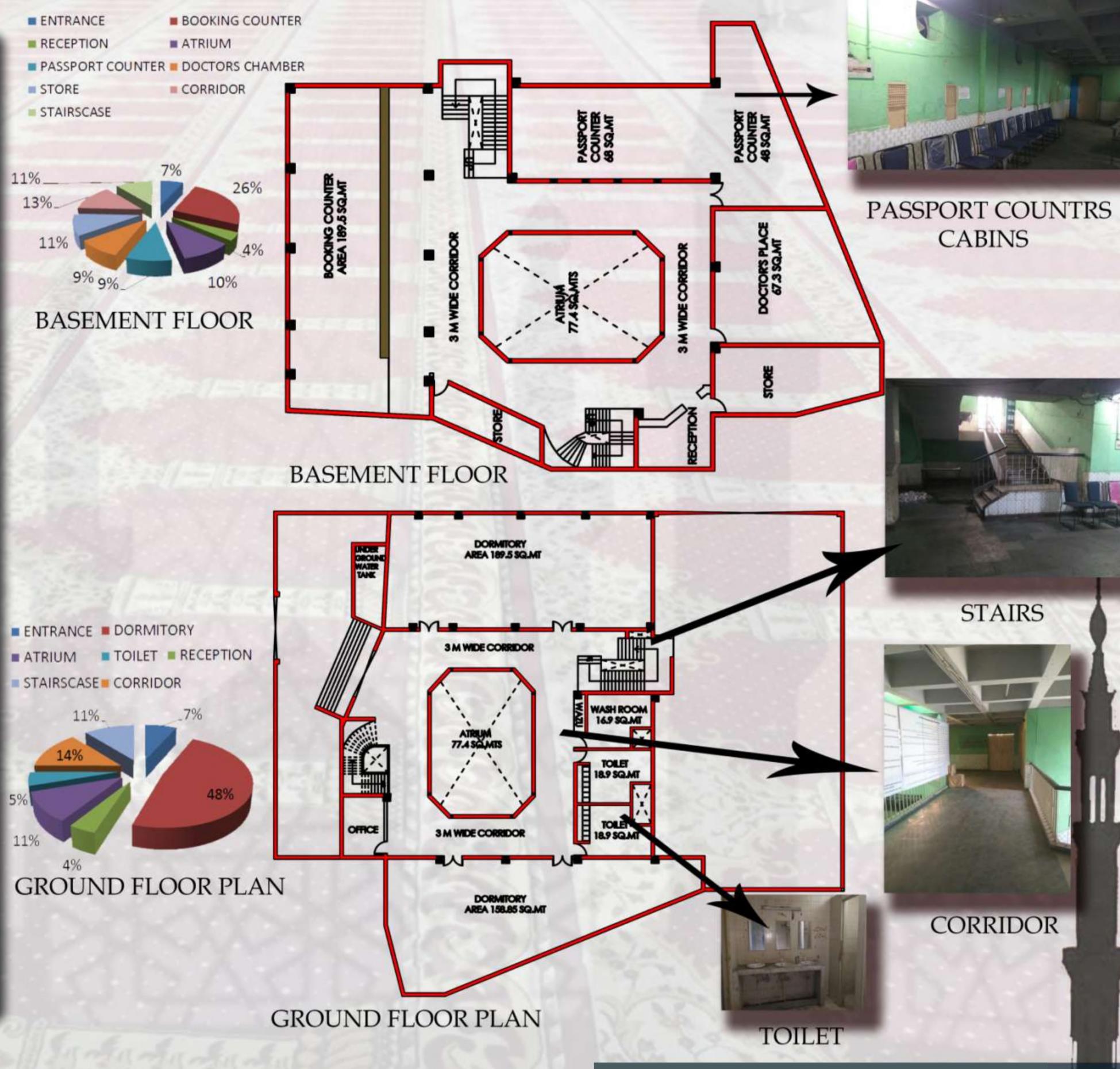
HA.J.J HOUSE VARADASI

- ARCHITECTS OBJECTIVE

- 1- To give adequate space for convenience of hajj pilgrims to complete all the formalities related with department of costomes and immigration and complete the paper work for the pilgrims in the building itself.
- 2- Gives grandness to the building through granite cladding on the external walls.
- 3- Gives different space arround central atrium 12 Mt. which also give the grandness within the building.
- 4- Gives maximum usable space in the small plot area.

- CONCEPT OF DESIGN

- 1- The hajj manzil built in one block with different space arrange around the central auditorium.
- 2- Area of the site small, so prayer hall and conference hall with capacity 350 people at a time is given in structure.
- 3- Dormitory having capacity 180 people are provided at a ground floor.



HAJJ HOUSE VARADASI



- 1- ATRIUM.
- 2- DORMITORY
- 3- TOILETS (MALE AND FEMALE).
- 4- STAIRS
- 5- ADMINISTRAITION
- 6- STORE
- 7- WAZOO KHANA
- 8- PRAYER HALL



DORMITORY

- SECOND FLOOR

- l- ATRIUM.
- 2- TRANING ROOM
- 3- TOILETS (MALE AND FEMALE).
- 4- STAIRS
- 5- TERRACE
- 6- STORE
- 7- WAZOO KHANA
- 8- OFFICE



SECOND FLOOR

PRAYER HALL **TOILET** PRAYER HALL AREA 189.5 SQ.MI ■ PRAYER HALL ■ ENTRANCE ■ ADMINISTRATION ■ ATRIUM **TOILET** CORRIDOR ■ STAIRSCASE 14% FIRST FLOOR FIRST FLOOR **CORRIDOR ■ TRANNING AREA** ■ TOILET ■ OFFICE TRANNING ROOM AREA 189.5 SQ.MT **TERRACE** CORRIDOR **ENTRANCE** ■ ATRIUM STAIRSCASE **STAIRS** 11% OFFICE 22% SECOND FLOOR SECOND FLOOR MOHD. FAHLAD

1150101042

HAJJ HOUSE VARADASI

- SERVICES

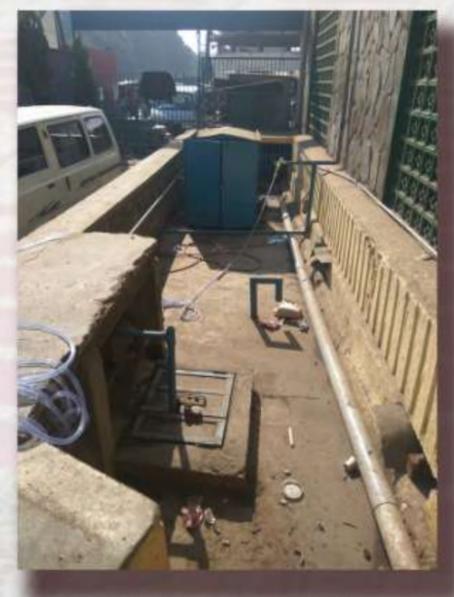
- 1- Water supply- 4 Overhead tank each of 500 Ltr capacity.
- 2- Total provision of water 20,000 Ltr.
- 3- No provision of lifts.
- 4- No proper provision of fire fighting.
- 5- No sapce for parking
- 6- No provision of ramp in basement.

- PARKING

- 1- No parking is provided in whole site.
- 2- The vehicles are used to park on road side during hajj periods.

- MATERIALS

- 1- Aluminium and glass window used on external facade for day light and proper ventilation.
- 2- Framed structure with coffered slab and brick masonary.
- 3- Granite usd on external facade to give grandness to the building.
- 4- Office partation is done by PVC.
- 5- Ceremic tiles is used in the toilets and wazoo khana.



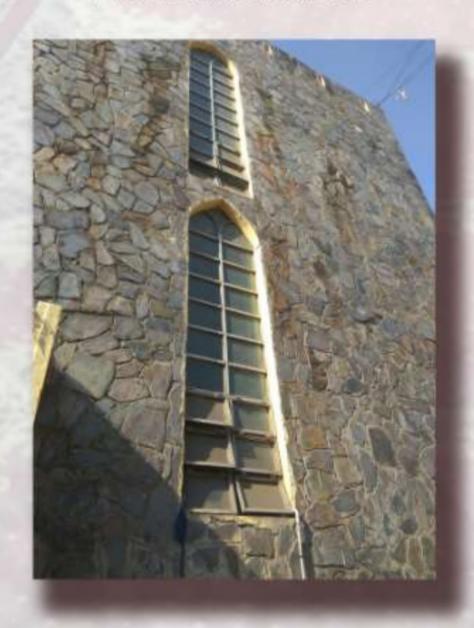
WATER TANK



PARKING



TOILET



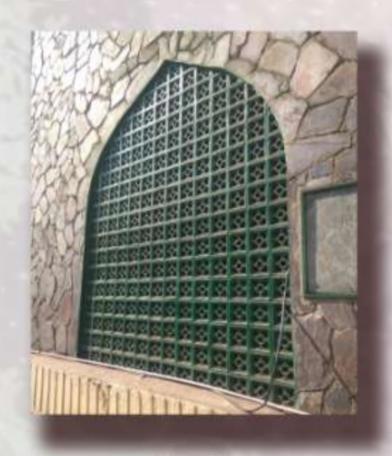
FACADE



COFFERED SLAB



DAYLIGHT



JALI

MOHD. FAHLAD 1150101042

HAIII HOUSE VARADASI

HAJJ HOUSE HYDERABAD

- LOCATION

- 1) The hajj house (razzak manzil), hyderabad is surounded by hotels and commercial complexes. it is located near nampalli railyway station and can be approached by public garden road and kalcha road.
- 2) From nampaly railway station 1.67 km and from rajiv gandhi international airport 30.3 km.

- PLANNING FEATURES

- 1- The hajj house has three different buildings height connected to each other,
 - Front block (G+7).
 - Rear block (g+12).
 - Mosque (g+2).
- 2- The front block has office only and the rear block have restaurent and office upto 3rd Floors.
- 3- Dormitories and rooms are 4th to 12th Floors
- 4- From 2nd floor blocks have connected through bridge.
- 5- Circle form of the mosque with use of iron jali window resembling mughals stone jali
- 6- Double heighted entrance of the building give the feeling of grandness.
- 7- It has a basement for staff and open parking for visitors.
- 8- Use pargolas and fiber glass.

HAJJ HOUSE VARANASI

LITERATURE STUDY



- FACILITIES

- 1- SPLIT AC WERE PROVIDED FOR AIR CONDITIONING.
- 2- FIRE EXTINGUISHERS WERE PRESENT FOR FIRE PROTECTION.
- 3- PARKING FOR 45 CARS AND 41 FOR BIKES IS GVEN.
- 4- LIFTS OF 13 PASSENGERS CAPACITY AND 1 STRETCHER LIFT HAS BEEN PROVIDED FOR THE VERTICAL MOVEMENT.
- 5- DIFFERENT TYPES OF FACILITIES HAS BEEN PROVIDED, FAMILY SUITES WITH LOUNGE AND BALCONY. DOUBLE BED ROOM WITH TOILET, DORMITORIES FOR 15 AND 40 PERSON CAPACITY.
- 6- NO SERVICE STAIRCASE HAS BEEN PROVIDED.
- 7- SEPERATE ENTRY FOR OFFICE BLOCK AND THE ACCOMODATION BLOCK.
- 8- PRAYER HALL FOR MEN, CAPACITY 170 AND PRAYER HALL FOR WOMEN, FOR 80 ONLY.
- 9- WATER TANK OF CAPACITY 170 LTR GIVEN.
- 10- UNDERGROUND WATER TANK OF 3,40,340 LITER HAS BEEN PROVIDED ON NORTH SIDE OF THE SITE.

- FLOORS

BASEMENT FLOOR GROUND FLOOR 1ST FLOOR 2ND FLOOR ---

3RD FLOOR
4TH FLOOR
5TH FLOOR
6TH FLOOR
7TH FLOOR
8TH FLOOR
9TH, 10TH, AND
11TH FLOOR

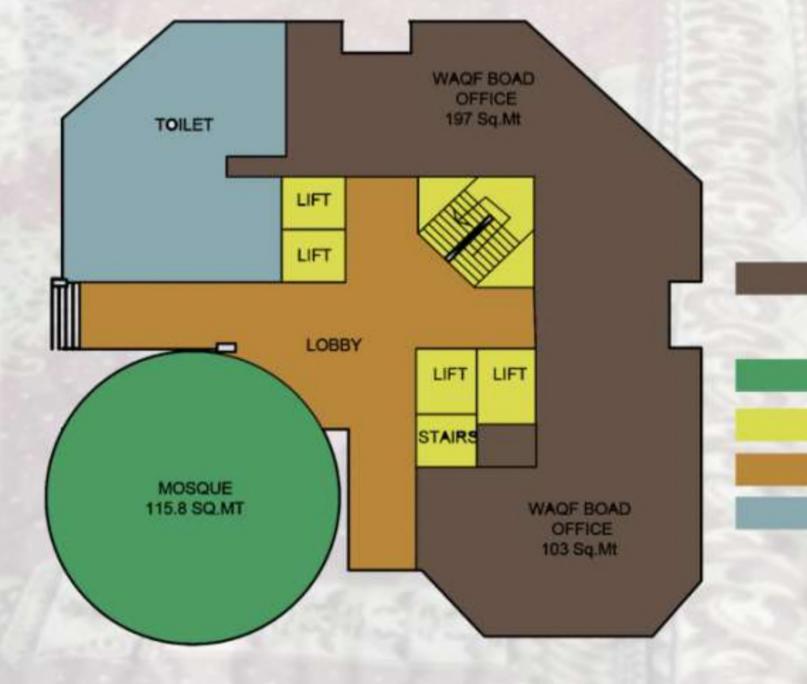
STORE, 35 CARS AND 45 BYKES PARKING.

MOSQUE, WAZU, TOILET, SHOPS, ARIVAL AND DEPARTURE AREA. CORPORATE OFFICE, TOILET, WOMEN PRAYER HALL, WAZU.

- -- WAQF BOARD OFFICE, LIBRARY, HEALTH CHECK, VISA PASSPORT, BANK TOILET, TRAVELLING AGENT AND P.C.O. WAQF BOARD OFFICE, FAMILY SUITE, TOILET, DOUBLE BED ROM.
- -- MINORITY WELFARE OFFICE, FAMILY SUITE.
 URDU ACADEMY, ROOMS AND TOILETS.
 KITCHEN, DINNING HALL, ROOMS, TOILETS.
 SEMI COVERED SPACE FOR DINNING, ROOMS AND TOILETS.
 FAMILY SUITES AND TOILETS.

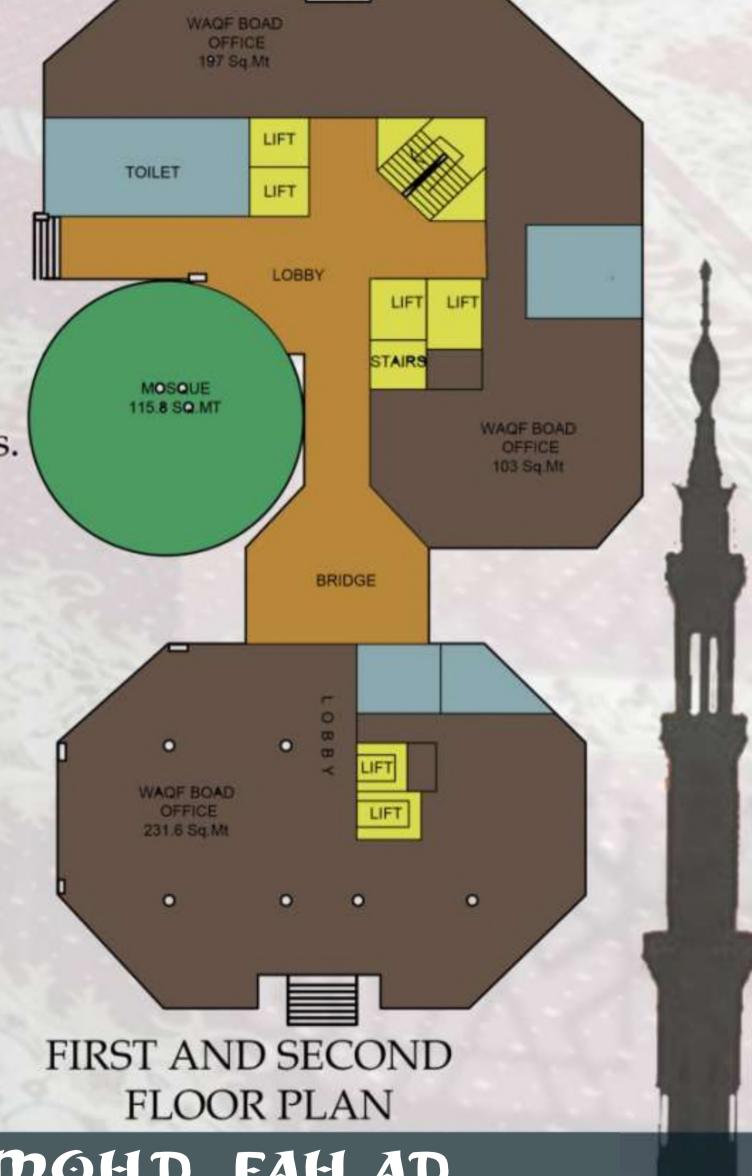
TWO DORMITORY FOR 15 PERSON, ONE DORMITORY FOR 40 PERSONS

H FLOOR TOILETS ON EACH FLOORS.



LEGEND

- 1- Waqf board office.
- 2- Mosque.
- 3- Lift and stairs.
- 4- Lobby.
- 5- Toilets.



MOHD. FAHLAD 1150101042



GROUND FLOOR PLAN
THESIS GUIDE: AR. ARVIND KUMAR SINGH

HAJJ HOUSE VARADASI

- MERITS

- 1- Compact planning.
- 2- Rooms are Easily approachable and less horizontal movement is required.
- 3- Seperate ofice area is required with proper ventilation facilities.
- 4- Different type of rooms and dormitories of different capacity is provided.
- 5- Site is near NAMPALLI RAIWAY Station.
- 6- Proper light and ventilation.



HAJJ HOUSE, HAYDERABAD

HA.J.J HOUSE VARADASI

- DEMERITS

1- Office.

2- Mosque.

4- Lobby.

5- Toilets.

3- Lift and stairs.

- 1- NO SERVICE STAIRCASE IS GIVEN.
- 2- NO PARKING SPACE FOR BUSS.
- 3- NO FIRESTAIRCASE HAS BEEN PROVIDED.
- 1- LESS SPACE GIVEN FOR MEN AND WOMEN IN THE MOSQUE.



6- Dormitory.

8- Family Suite

9- Double Bed.

7- Terrace garden.

COMPARATIVE ANALYSIS

CONTENT	HAJJ HOUSE, LUCKNOW	HAJJ HOUSE, DELHI	HAJJ HOUSE, HYDERABAD	INFRENCES
LAYOUT & PLANNING	Simple layout Courtyard planning.	Simple layout & linear Planning.	Layout according to surrounding views available and linear planning.	Large ventilated areas should be provided.
ZONNING	Floor wise segregation of semi - private and public areas.	No Floor wise segregation.	Floor wise segregation of public and private area.	Zoning should be such that it clearly separates varied zones while at the same time well connecting them.
NO. OF ENTRY/EXIT AND CIRCULATION	The main access along the service access to the building site is through a single entry point. Simple linear circulation pattern.	Circular Circulation	Linear circulation patterns.	Entry / exit should be such that the traffic movement of vehecular and pedistrian should be segregated.
USER GROUP SPECIFIC DESIGNING	Easy movement patterns.	Easy movement patterns.	Easy movement patterns.	Easy and defined movement patterns should be there.
SERVICES	All services provided in the site.	All services are not provided	-	All services will be provided.
PARKING	Parking is provided for visitors and staff	No parking is provided		Separate Parking should be given for staff and VIP.
RECREATIONAL SPACES	Courtyard, water body and Green area are provided	No recreational spaces are Provided.		Recreational spaces should be provided.
MATERIALS	Brick, reinforced concrete, stone, cement mortar etc.	Stone cladding on the exterior façade.	Brick, reinforced concrete, stone, cement mortar etc.	Brick, reinforced concrete, stone, cement mortar and glass etc.

HLA.J.J. HLOUSE VARADASI

AREA ANALYSIS

	REQUIREMENTS	CAS	E STEIDY - 1	(LUCKNO)	N)	CASE STUDY - 2 (DELHI)			LITERATURE STUDY - 2 (HYDERABAD)				PROPOSAL			REMARK	
S.NO		NO. OF UNITS				NO. OF UNITS				NO. OF UNITS	The second secon	TOTAL AREA	STANDARDS	NO. OF UNITS UNIT AREA TOTAL			
			ME			METER			METER			METER					
1	ADMINISTRATION																FOR 720 PEOPLES
a)	Entrance lobby	1	100	100	G.F	1	50	50	Basement	122	_	_	1.0 Per Person	1	180	180	
b)	Reception	1	10	10	G.F	-		-	-	1	60	60	0.4 Per Person	1	72	72	
c)	Waiting Area				-	-	-			35		-	0.6 Per Person	1	108	108	
d)	Hajj committee office	1	66	66	G.F	1	211	211	Basement	2	-	427.26	24 Sq.mt	2	50	50	
e)	Computer Room	_	_		-	1	18	18	Basement	-	-	-	24 Sq.mt	2	40	80	
f)	Record Room	-	-	-	-	-	-	-	-		-	-	-	1	50	50	
g)	Passport Office	1	118	118	G.F	1	189	189	Basement	1	21	21	-	1	60	120	
h)	Currence Exchange	1	23.5	23.5	G.F	1	18	18	Basement	-	-	-	-	1	30	30	
i)	Immigration Office	1	75	75	G.F	1	18	18	Basement	US I	-	-		1	50	50	
j)	Secratory Room	-		-	-	1	25	25	Basement	-	-	-	1.0	1	30	30	
k)	ATM		21		-					1	-	Temporary		2	10	20	
1)	Conference Room	-		-	-		-		-	15		-	1.2 per person	1	25	25	for 15 per person
m)	Baggage Counter		-		- 2			-		14	-	·		1	20	20	
n)	Minority Welfare	2	143	286	G.F	1	336.1	336.1	Basement	-	-	-	•	1	350	350	
0)	Chairman Office	- S	-2	-		-			-			-	2	1	50	50	
q)	Toilets	2	75	150	G.F	1	140	140	Basement	1	72.3	-	1.8 PER W.C	2	24	48	
r)	Cafetaria (Indoor)					- ,						-	1.5 Per Person	1	100	100	for 25 per person
s)	Cafetaria (outdoor)	-		978	-		-			-		-	1.2 Per Person	1	70	70	for 15 per person
t)	Store Room	- 2			-		- 1		-		3-3	-		1	50	50	
	TOTAL			610.5				798.1				508.26				1503	
					TC	TAL AREA IN	NCLUDING :	25% CIRCUL	ATION = 1503	3 + 375.75 = 1	878.75		(eye			1878.75	
3	ACCOMODATION					30	();	//-									FOR 720 PEOPLES
a)	ENTRANCE LOBBY	-		-	-	-		-	-		-	-	1.0 Per Person	1	720	720	
b)	WAITING AREA	-		-	-	-		-	-	-			0.6 PER PERSON	1	432	432	
c)	DORMITORIES									4-		-					
*	14 BEDED	16	90.5	1432.5	-	2	253.4	506.8	F.F/S.F	6	240	1440	5.5 PER PERSON	26	100	2600	for 360 person
	6 BEDED	-		-	-	-		-		-	-	-	5.5 PER PERSON	30	50	1500	for 180 person
*	SINGLE ROOM WITH TOILET	4	13.5	54	G.F/F.F	-				-		i - i	17.5 PER UNIT	20	20	400	for 68 person
*	DOUBLE ROOM WITH TOILET	10	20	200	F.F	-	-	-	-	-	-	-	22 PER UNIT	56	25	1400	for 112 person
*	TOILET (M/F)	08/04.	23.5	190	G.F/F.F	04/02.	25	50.1	G.F/F.F/S.F	1		09/04.		18/14	1.8	90	
*	STORE	-	-		-		-		-		-	-		04-	1.8	96	
	TOTAL			1953		-	1000	568.9					1			7238	
1						TOTALAR	REA INCLUD	ING 25% CI	RCULATION =	7238 + 1809	.5					9047	
4	HEALTH CENTER						10				10						For 15 Person
a)	WAITING AREA	-	-				-			100			1.0 Per Person	1	40	40	
b)	DOCTOR'S CABIN WITH TOILET	2	12	24	F.F	1	70	70	BASEMENT	-	-)	-		1	50	50	
c)	OBSERVATION ROOM		-	-	-		3=0	-	-				5.5 PER PERSON	1	45	45	
<u>d)</u>	PHARMACY	-			ं	- 3	-	3	-			-		1	30	30	
e)	TOILET	-	-	-		-						-	1.8 PER W.C	3	10	30	1 For 25 Per Person
	TOTAL 865.5 150												195				
						TOTALA	REA INCLU	DING 25% C	IRCULATION	= 195 +48.79						243.75	
2016	All all the first the firs	TOTAL STREET	7 7 4								5-17-1	10-11	Man Salar V				

HAJJ HOUSE VARANASI

	CASE STUDY TATULCKNOWN CASE STUDY OF DOLLIN									LITERAT	THE CTHEY OF	LIVOEDADADA		ppoposai			REMARK
S.NO	S.NO REQUIREMENTS CASE STUDY - 1 (LUCKNOW) NO. OF UNITS UNIT AREA TOTAL AREA FLOOR						NO. OF UNITS UNIT AREA TOTAL AREA		STANDARDS	NO. OF UNITS UNIT AREA TOTAL AREA							
		NO. OF ONTIS	MET		FEOUR	NO. OF UNITS	T-111	TER	FLOOR	NO. OF DIVING	METER	TOTAL AREA	METER	NO. OF ONLIS	METER	TOTALANCA	#
-	DINNING AREA		INICI	EIV			IVIE	I ED			(V)E(ED)		Micron		WILLER	1	For 180 Person
2)	SEATING (M)	1	200	200	G.F	1	164	164	S.F	1	430	430	1.5 Per Person	1	350	350	For 108 Person
a) b)	SEATING (IVI)	1	146	146	F.F	1	100	100	S.F	1	240	240	1.5 Per Person	1	240	240	For 72 Person
c)	WASHING	2	40	80	F.F	1	30	30	S.F	-	-	-	1.0 Per Person	10	240	50	10172 PEI3011
6	KITCHEN	2	60	120	F.F	1	88	88	-	1		80.5	30% OF SITTING AREA		1	177	
a)	WASHING AREA	2	32	64	F.F	-	_	-	-	1	_	-	- DONG OF STEPANE	1		50	3
b)	STORAGE	1	30	30	1		_	-	_	-	_	-	_	1	1	70	
c)	SERVICE COUNTER	2	15	15	1	-	1 2			-	-		_	1	1	20	
7	CAFETERIA					-											For 360 Person
a)	PANTRY	1	140	140	F.F		- 1	-	-	- 4	_		-	1	190	190	
b)	SEATING	1	60	60	F.F	-	_	-	-	-	-		1.5 Per Person	1	500	500	
c)	WASHING	1	25	25	F.F	-	-	-	-	4		240	1.0 Per Person	10		50	
d)	TOILET(M/F)	-	-	-	-	-	-	-		1	-	32	1.8 PER W.C	08/06.		50	
	TOTAL			880	1				1						6	1747	7.
			-		TO	TAL AREA II	VCLUDING 2	25% CIRCULA	TION = 1747	7+436.75	*		*			2183.75	
8	MULTIPURPOSE HALL							A CONTRACTOR OF THE CONTRACTOR		O TO						107	For 360 Person
a)	ENTRANCE LOBBY		-		-		-	-	-	1	140	140	1.0 Per Person	1	100	100	
b)	WAITING AREA	- 2	1 12	-	E .	150	2	-2	_	12	8		1.0 Per Person	2	50	100	
c)	TOILETS (M/F)	-	-		-		-			-	+	-	L WC PER 25 PERSON	08/06.		50	
d)	SEATING	12	12	12.1	1 2	120	2	-21		1	200	200	0.5 PER PERSON	1	220	220	For 360 Person
e)	STAGE	-	-		-	-	-	-		-	1	-	30% OF SITTING A.	1	66	66	
f)	GREEN ROOM(M) WITH TOILET	1	12	12		, E.	2	2	_	2		30	5.0 PER PERSON	1	50	50	
g)	GREEN ROOM(F) WITH TOILET	-	-	-	-		-	-		-		-	5.0 PER PERSON	1	50	50	
h)	PROJECTOR ROOM	- 2	12	12/	2	-24	2	-2	<u> </u>	1	10	10	<u>=</u>	1	18	18	
- i)	STORE	-	-	-			-	*	*	1	10	10	+	1	30	30	
j)	SNACK COUNTER	- 20	12	12	20	1 3			-2	1	15	15	9	2	18	36	
k)	AUDIO VISUAL ROOM	*	+	·= i	+		+	-	+	+	9	-		1	30	30	
1)	LIBRARY												4.5 PER PERSON	1	300	300	
	TOTAL					1							-	\$ 4	2	1050	
m)			TOTAL	AREA INCL	UDING 259	% CIRCULATI	ON =1050 +	265.2		-						1312.5	
2	MOSQUE														8:	0 A	FOR 720 PEOPLES
a)	Prayer Hall (M)	1	370	370	U.F	1	379	379	First Floor	3	*	540	0.85 PER PERSON	1	-	450	for 432 per person
b)	Prayer Hall (F)	1	230	230	Basement	t -	-		-	-	-		0.85 PER PERSON	1	-	300	for 288 per person
c)	Wazoo Khana	-	-	-	+-		-	4.5	-	1	*	54.7	*	2	80	160	3
d)	Toilets (M&F)	_	-	=	2	-20	-		-	4	-		1.8 PER W.C	18/12.	1.8	90	1 For 25 Per Person
e)	Store Room	7.75		#2	÷	100	-	-	+	*	*	4.7	-	1	50	50	
f)	Imam Room	-		= 2	- 2	=27				- 2.	-	(##)	-	1	40	40	
	TOTAL			600				379				594.7				1090	
	TOTAL AREA INCLUDING 25% CIRCULATION = 1090 + 272.5															1362.5	

HLA.J.J HLOUSE VARANASI

THESIS GUIDE: AR. ARVIND KUMAR SINGH

Permissible Plot Area - 11.5 ACRES (46650.38 Sq.Mt) Permissible F.A.R - 1.5

Permissible Ground Coverage - 35% (16327.64)

Buildup Area = F.A.R x Plot Area = $1.5 \times 46,650.38$ = 69,975.57 Sq.Mt

Ground Coverage = 35% of Plot Area.

= 16327.64 Sq.Mt

No. of Floors = Buildup Area / Ground Coverage

= 69,975.57 / 16,327.65

= 4.3 - 4.5 Floors.

Achieved Ground Coverage = 4316.5

Achieved Ground Coverage = 4306.5 / 16327.5

= 26.4%

= 4.3 - 4.5 Floors.

Achieved F.A.R = total area / 46650.30

= 0.34

CONCEPT

CONTEMPORARY ARCHITECTURE

Contemporary Architecture is a architecture of 21st century. No single style is Dominant. LIGHT and AIR are two main Pillar of the contemporary Architecture.

Hajj House is a religious building and it is based on philosophy CONNECTING TO THE GOD by certain medium i.e, light and air.

ELEMENTS

EVOLUTION OF FORM

02 -: Additive Transformation

Geometrical Shapes

01

Juntion connected the blocks with each other.

- -: Subtractive Transformation
- Subtractive trans. is used for the maximum use of day light and air in the building.

04

FINAL BLOCK FORM

ROOF

Over Hanging,

Flat, Fake Facade

INTERIOR SPACE

Natural Light, Shadow **EXTERIOR**

Additional Shading Regions, Contours, Water Body.

OUTDOOR

RELATIONSHIP

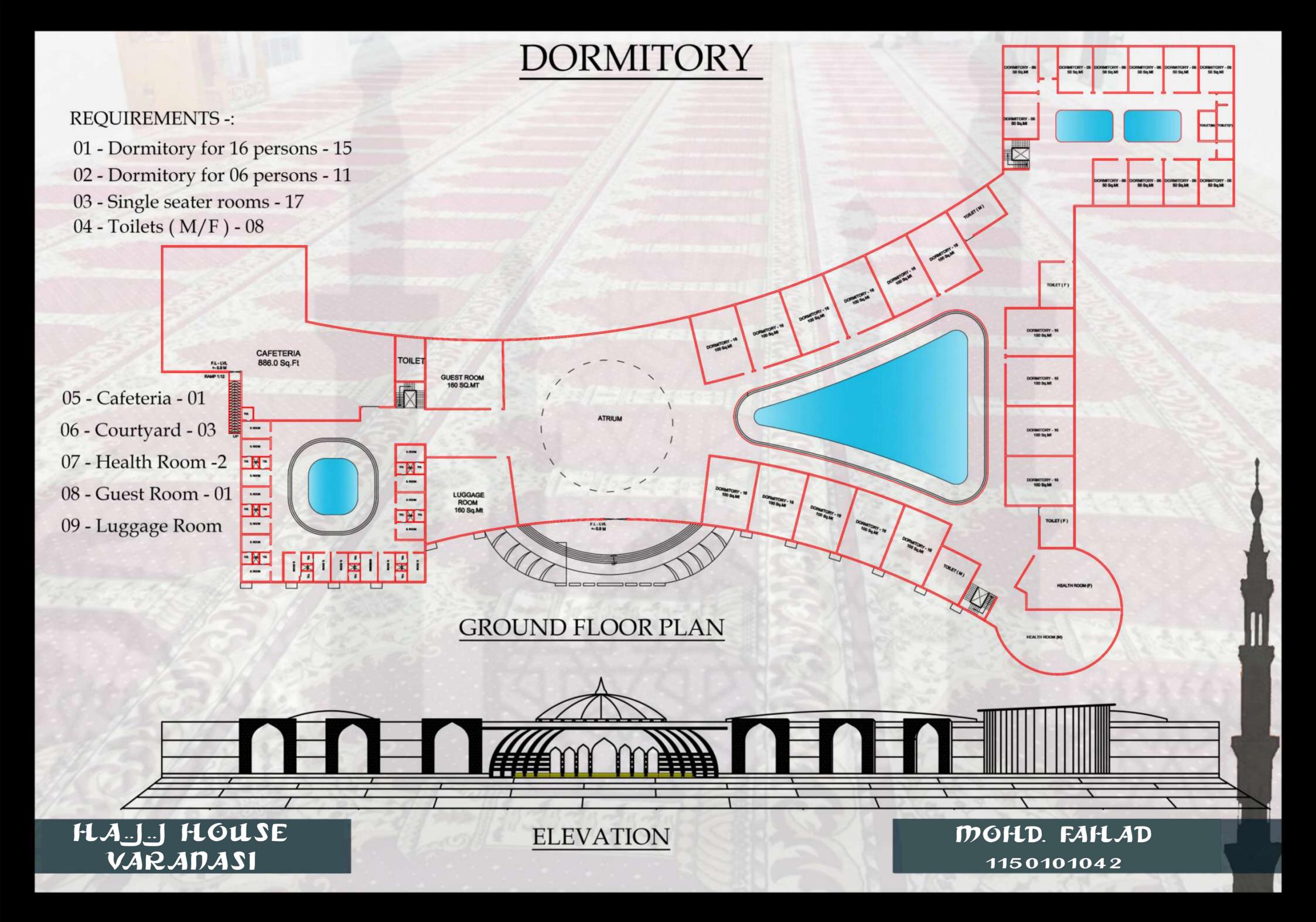
Large Opening, Glass Facade, use of light colours 05

HA.J.J HOUSE VARANASI



HAJJ HOUSE VARANASI

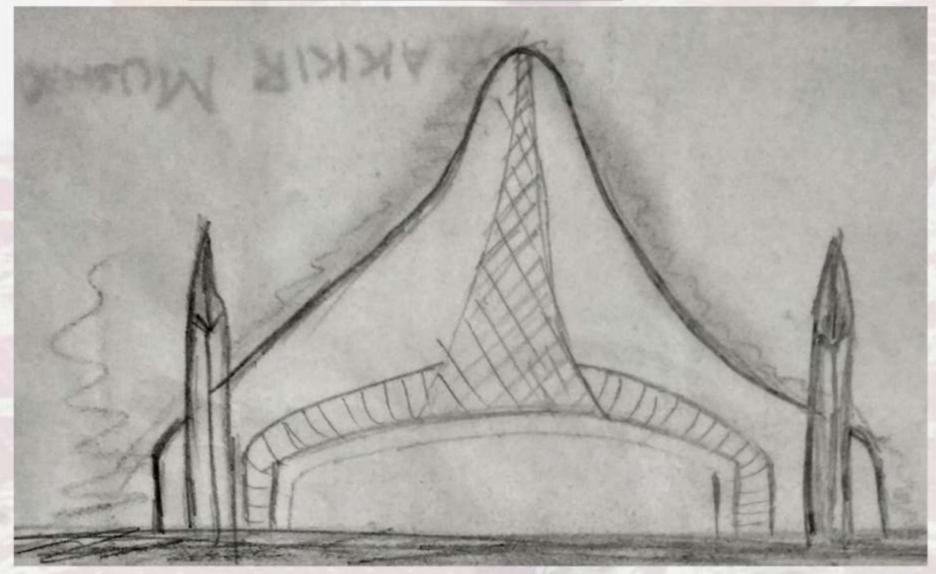
SITE PLAN



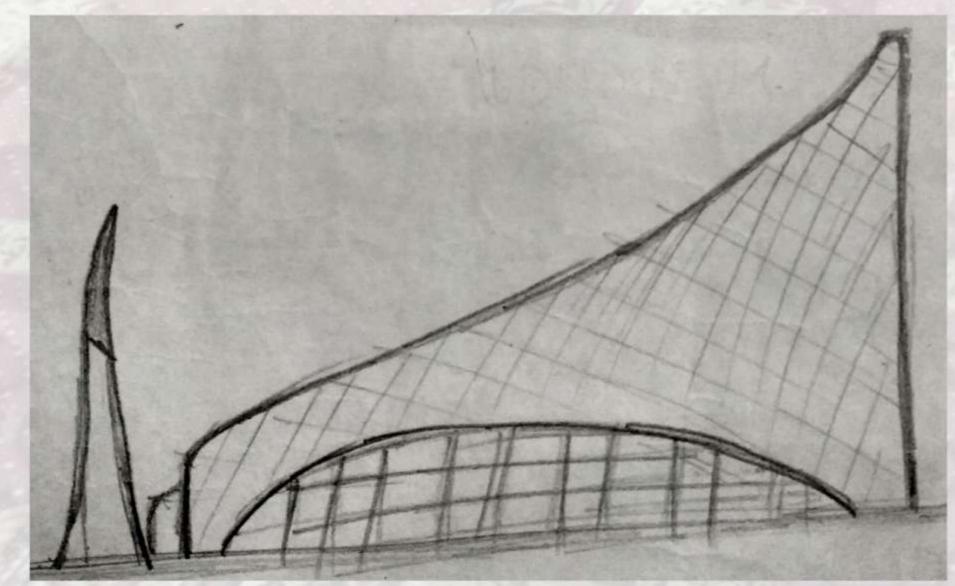
ADMINISTRATION BLOCK STORE 28 Sq.Mt RECORD ROOM 30 Sq.Mr CHAIRMAN OFFICE 38 SQ.MR MINOTITY WELFARE 390 SQ.M. WAITING AREA 108 Sq.Mt COMPUTER ROOM 42 Sq.Mr MMIGRATION OFFICE 65 SQ.Mt HAJI COMMITTEE OFFICE 55 Sq.MR ATTENDENT ROOM 18 Sq.Mt SECRATORY ROOM 30 Sq.MR ATRIUM ENTRANCE LOBBY 180 Sq.Mt CURRENCY EXCHANGE 32 Sq.Mr RECEPTION BAGGAGE COUNTER PASSPORT OFFICE 142 Sq.Mt CAFETERIA 108.0 SQ.M. **GROUND FLOOR PLAN** HA.J.J HOUSE MOHD. FAHLAD FRONT ELEVATION VARADASI 1150101042

AUDITORIUM

MOSQUE

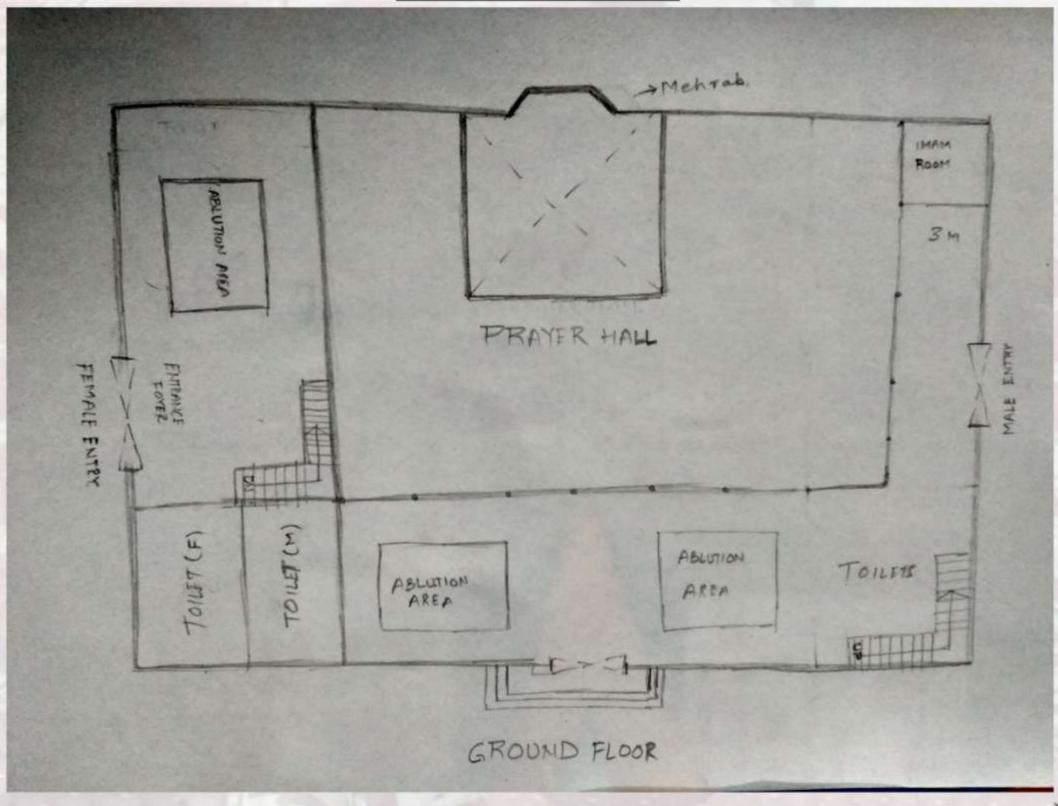


FRONT ELEVATION

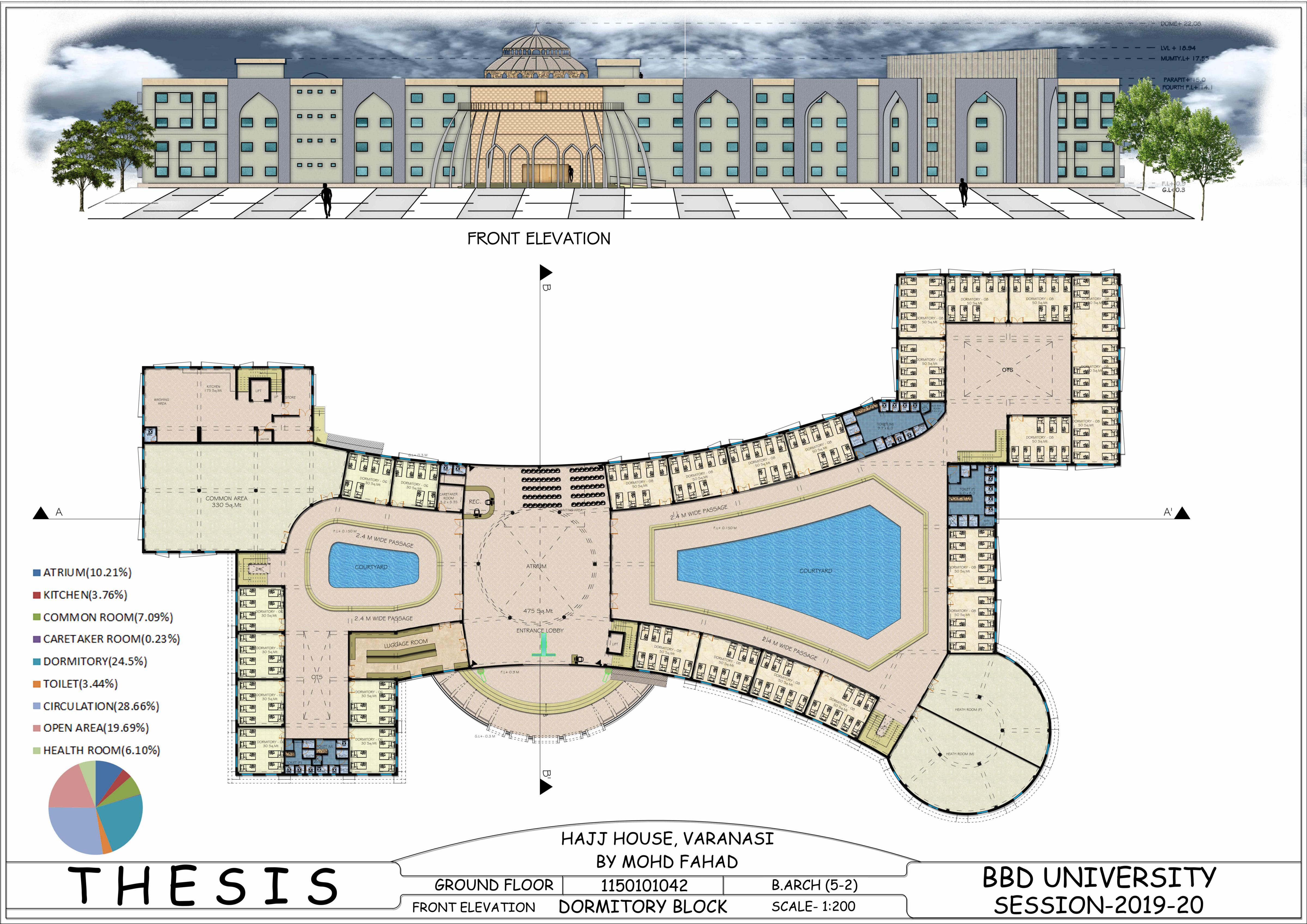


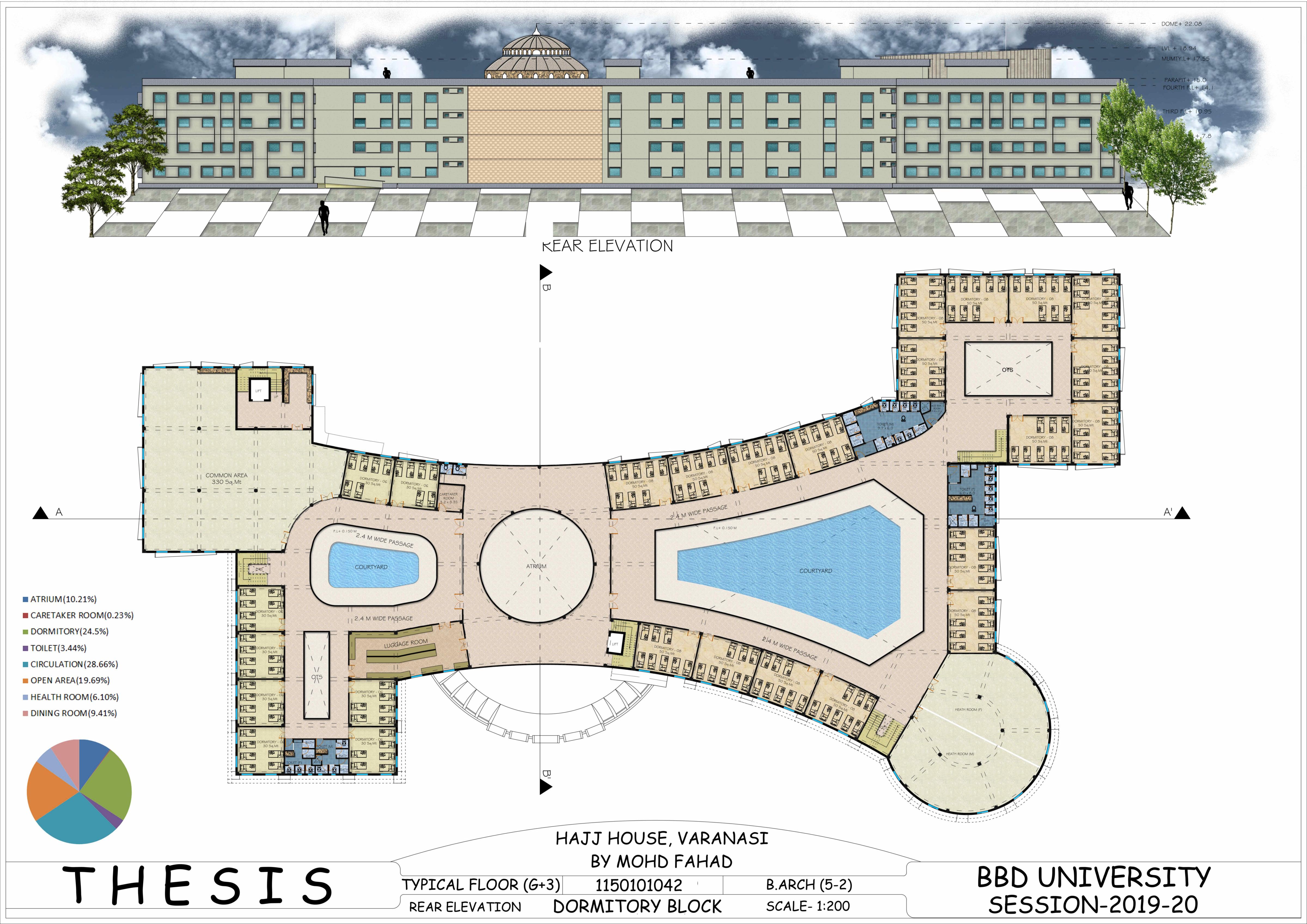
SIDE ELEVATION

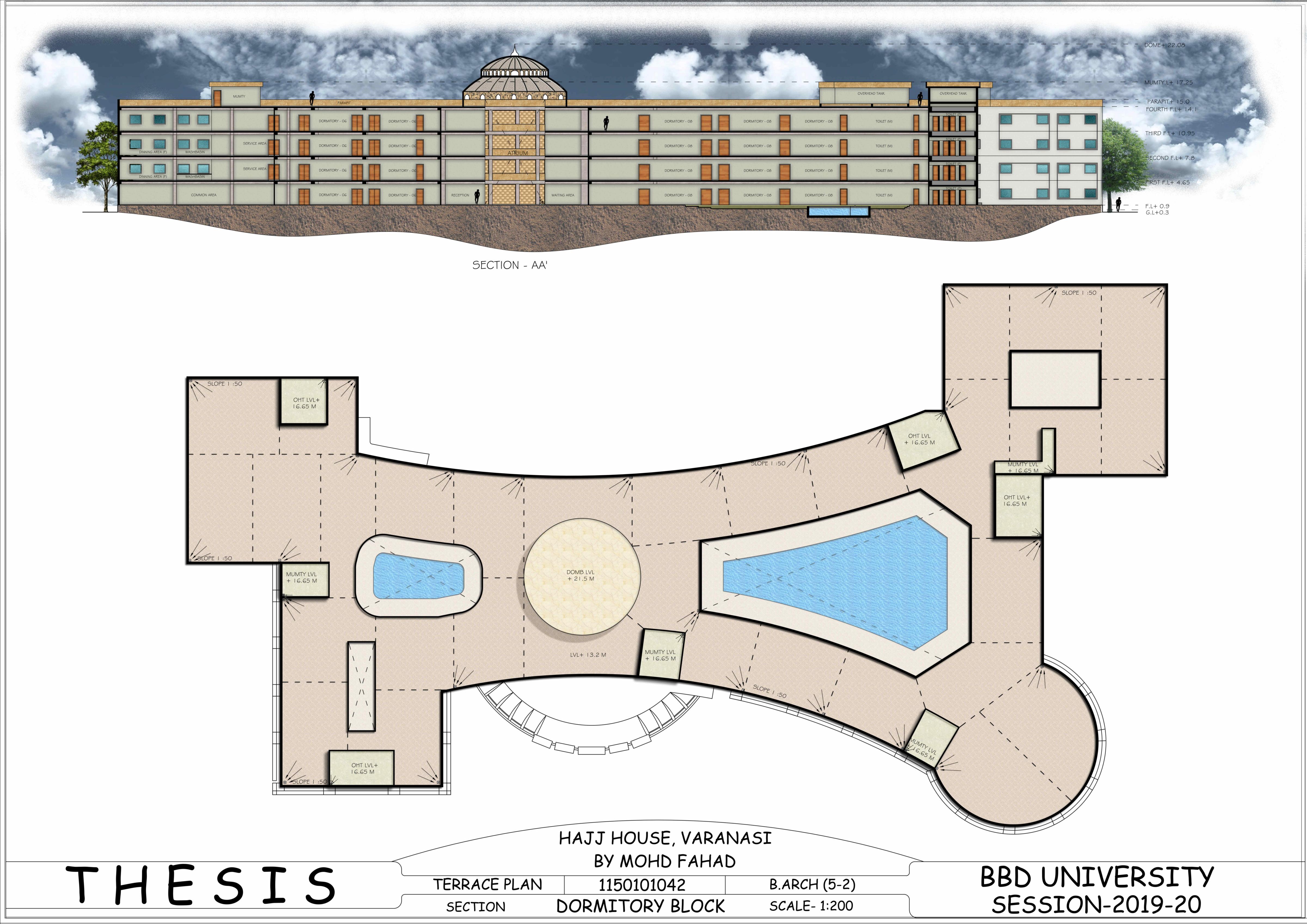
HA.J.J HOUSE VARANASI

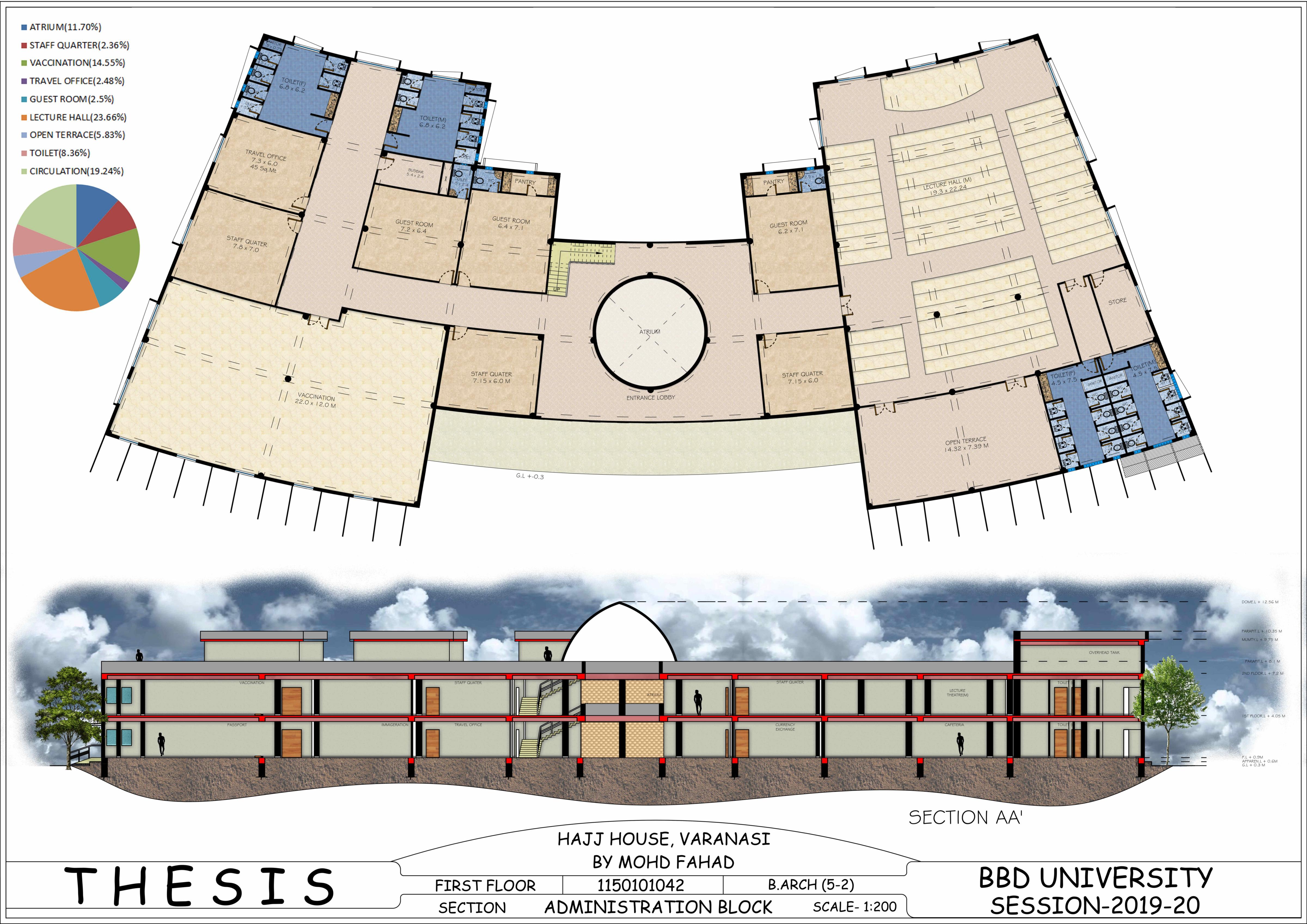


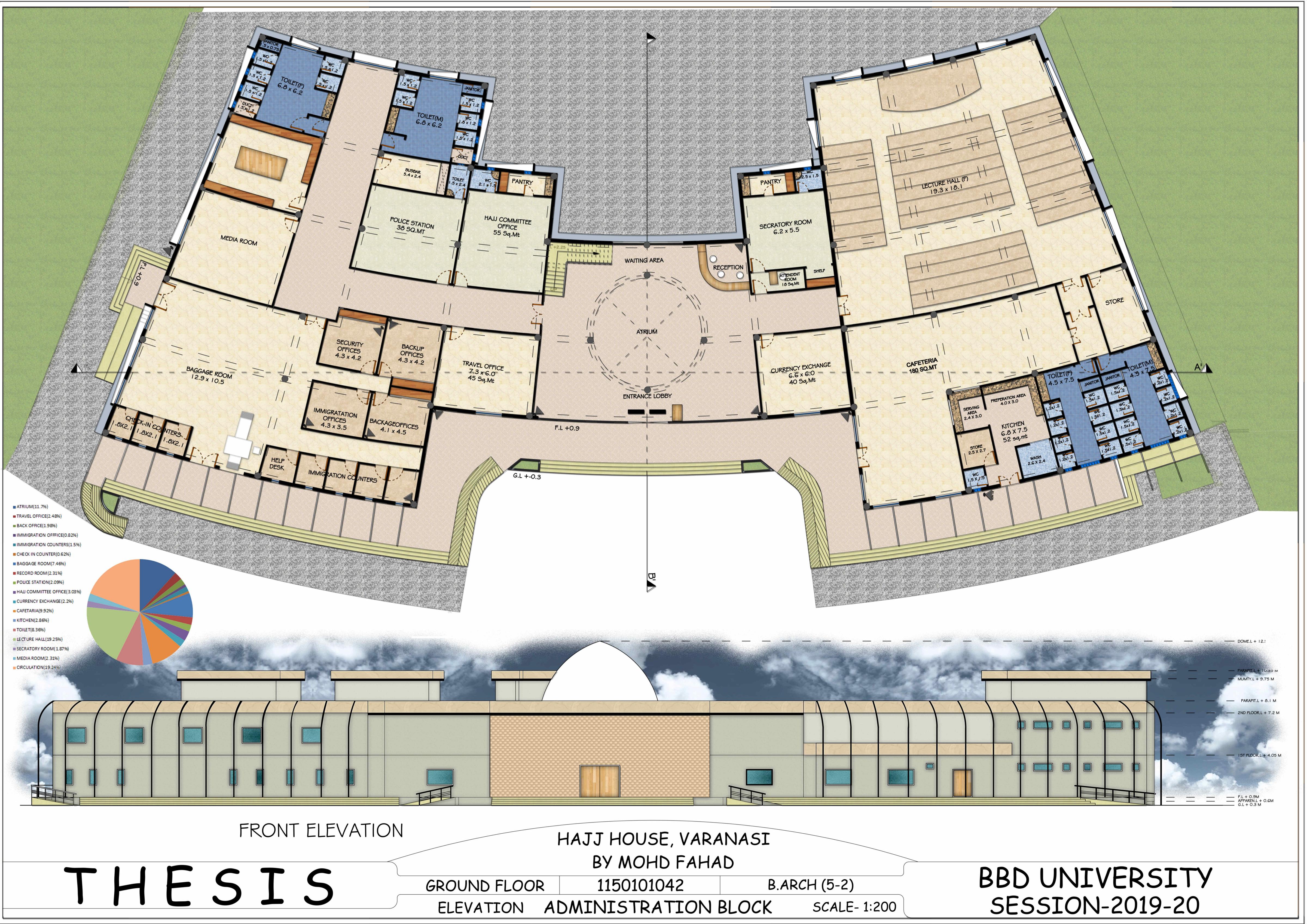
GROUND FLOOR PLAN



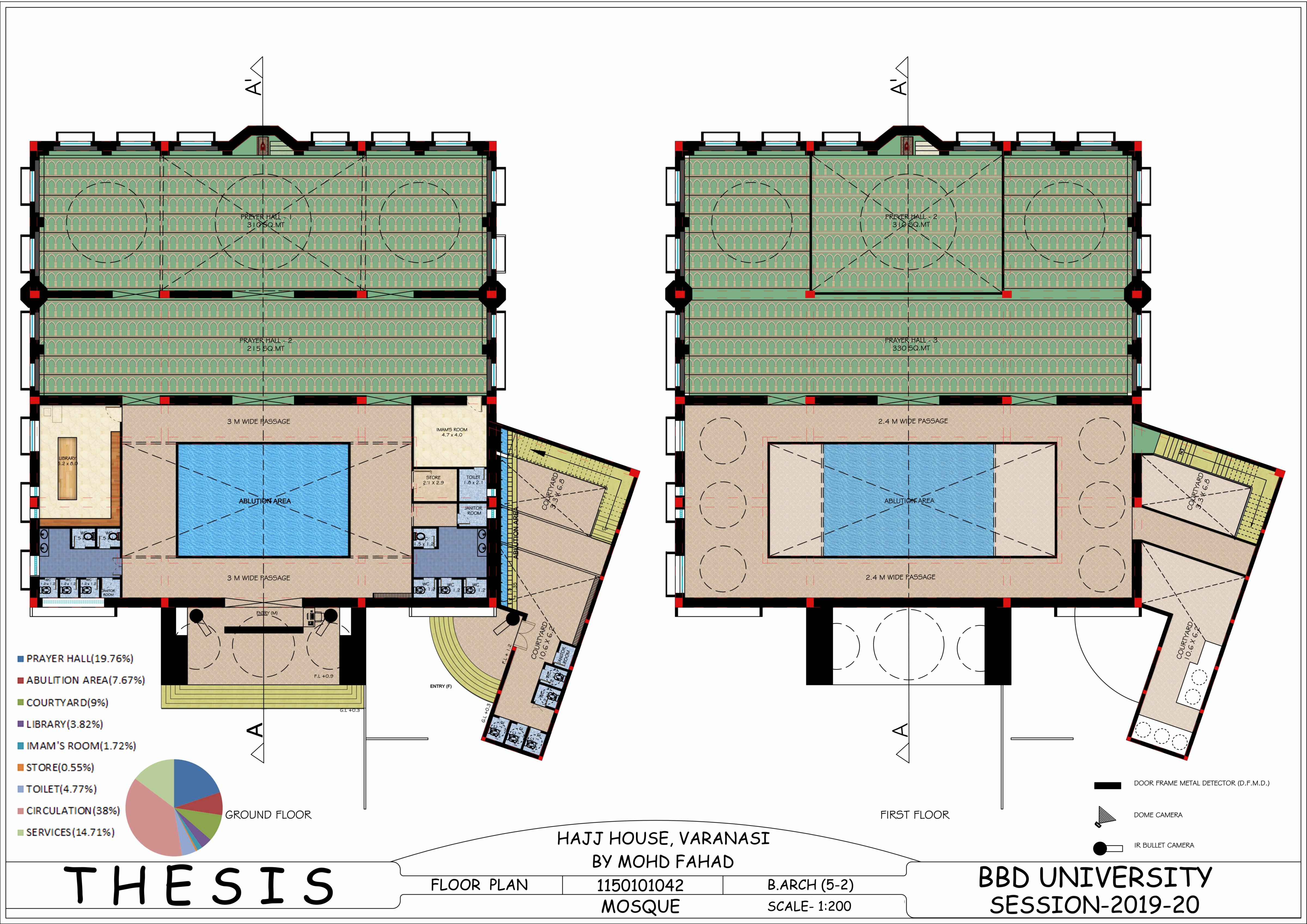


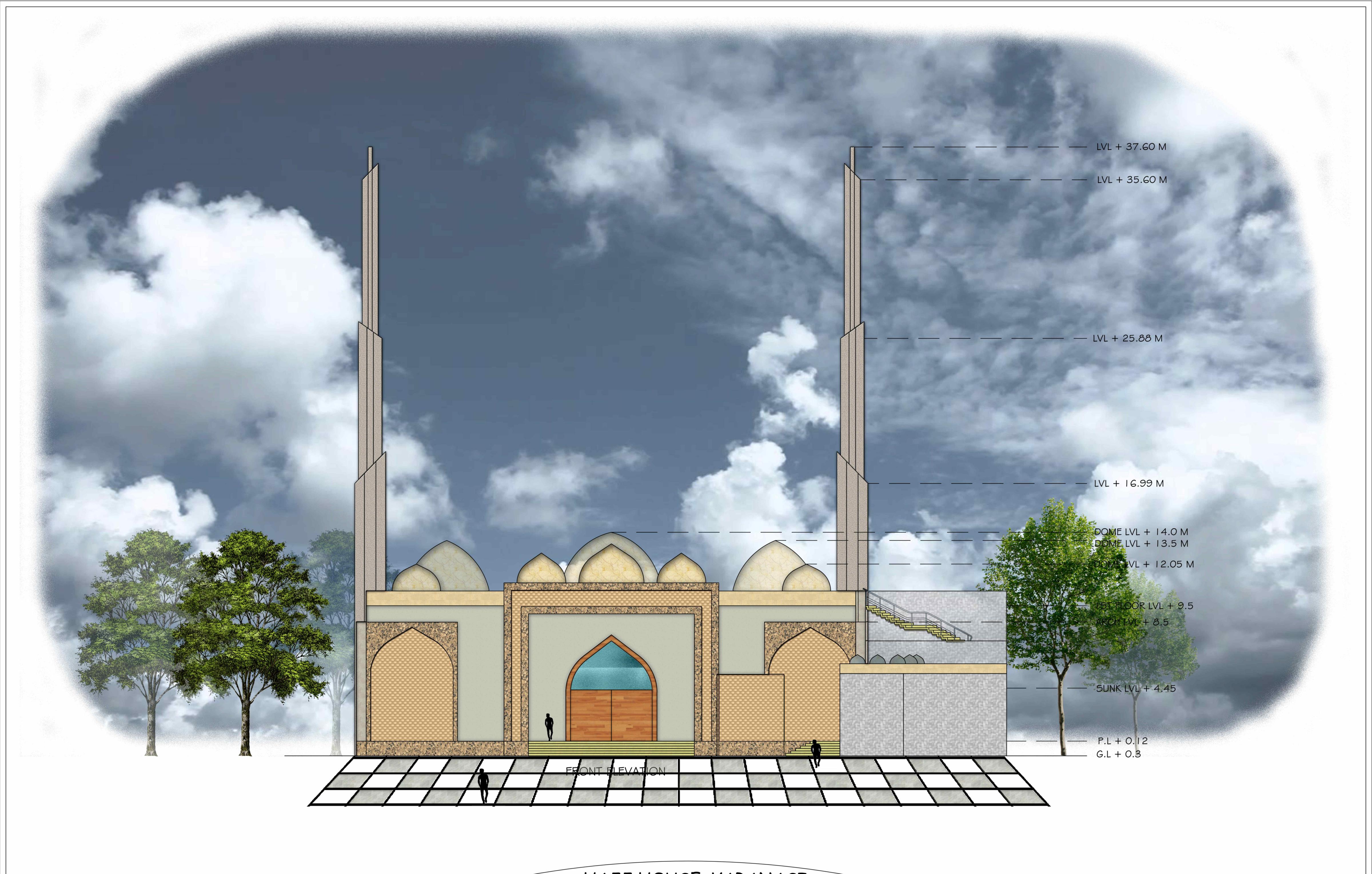










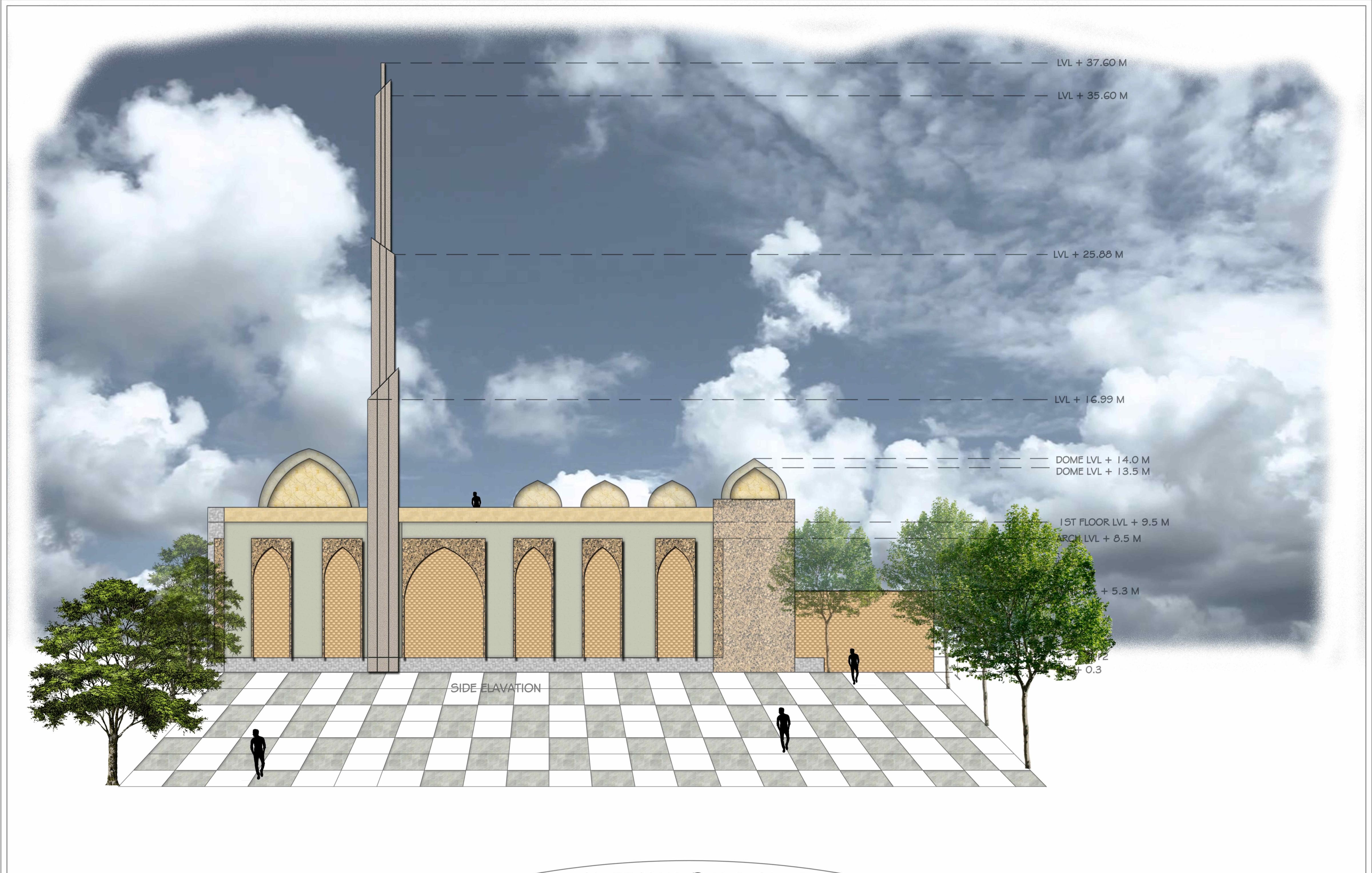


THESIS

HAJJ HOUSE, VARANASI BY MOHD FAHAD

FRONT ELEVATION 1150101042 B.ARCH (5-2)
SECTION MOSQUE SCALE- 1:200

BBD UNIVERSITY SESSION-2019-20



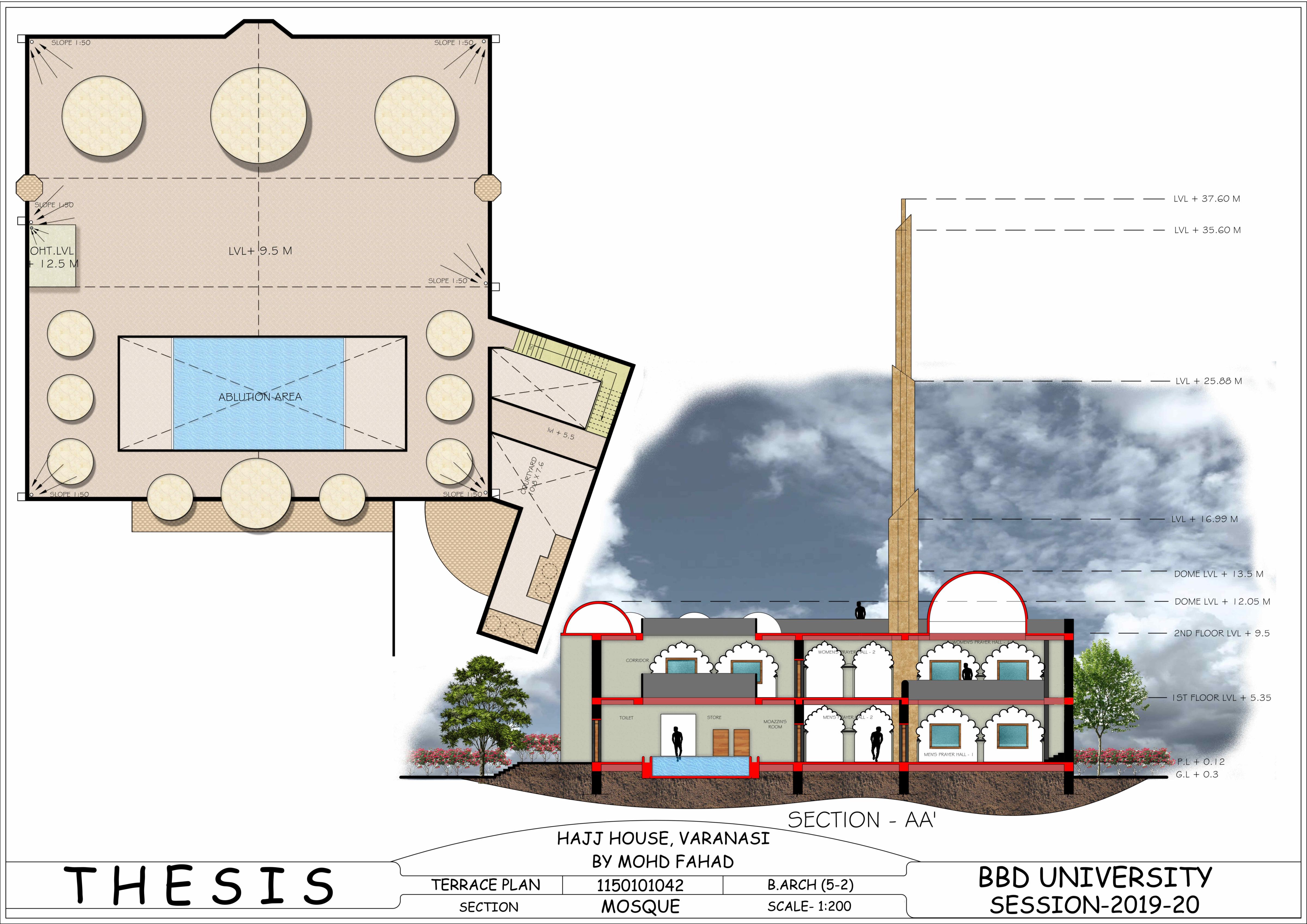
THESIS

HAJJ HOUSE, VARANASI BY MOHD FAHAD

 SIDE ELEVATION
 1150101042
 B.ARCH (5-2)

 MOSQUE
 SCALE- 1:200

BBD UNIVERSITY SESSION-2019-20







SITE PLAN

ELECTIVE LANDSCAPING

IMPORTANCE OF LANDSCAPING:

Asthebuildingsaremadefortheusageofthepublic,henceanimportanttaspectistomaintainac omfortableandenvironmentatmosphere. Even Inallkindofbuilding, this consideration should always bemades othat the building is just not internally comfortable but so has an ambiguous environmentandin corporate wrk with recreation for a better work input and development of the corporate world. FO LLOWINGARETHEMEASURESUSED TO CREATE A HEALTHAND COMFORTABLEENVIRONMENT:

- •Trees
- Plants
- Waterbodies
- Greenpavers





CASSIA FISTULA



Common name: Amaltas, Golden shower tree, Indian Laburnum Botanical name: Cassia fistula

Family: Caesalpiniaceae(Gulmoharfamily)

- •One of the most beautiful of all tropical trees when it sheds its leaves and bursts into a mass of long, grape-bunches like yellow gold flowers.
- •A tropical ornamental tree with a trunk consisting of hard reddish wood, growing up to 40 feet tall.
- •The wood is hard and heavy; it is used for cabinet, inlay work, etc. It has showy racemes, up to 2" long, with bright, yellow, fragrant flowers.
- •These flowers are attractive to bees and butterflies.
- •The fruits are dark-brown cylindrical pods, also 2' long, which also hold the flattish, brown seeds (up to 100 in one pod). Medicinal uses: The sweet blackish pulp of the seedpod is used as a mild laxative.

HAIJ HOUSE

Common name:GulmoharBotanical

name:Delonix regia Family: Fabaceae

- •its ornamental value
- •it is also a useful shade tree in tropical conditions, because it usually grows to a modest height but spreads widely, and its dense foliage provides full shade.
- •In areas with a marked dry season, it sheds its leaves during the drought, but in other areas it is virtually evergreen.





Common name:Blackboard tree,

Indaiandevil tree

Botanical name: Alstoniascholaris

Family: Apocynaceae

- ${\bf \cdot} Alstonia scholaris is a small tree that grows up to 40 mt all and is glabrous. The bark is grey is h; branch lets are copiously lenticellate.$
- •Theuppersideoftheleavesareglossy, while the underside is greyish.
- •Leavesoccurinwhorlsof3-10;petiolesare1-

3cm;theleatheryleavesarenarrowlyobovatetoverynarrowlyspathulate,basecuneate,apexusuallyro unded;lateralveinsoccurin25-50pairs,at80-

90° tomidvein. Cymesaredenseand pubescent; peduncleis 4-

7cmlong.Pedicelsareusuallyaslongasorshorterthancalyx.

 ${\bf \bullet Seeds of A. scholar is a reoblong, with ciliated margins, and ends with tufts of hairs 1.5-colors and the season of the s$

2cmThebarkisalmostodourlessandverybitter, withabundantbitterandmilkysap.

HAIJ HOUSE

BLACK BAMBOO

Phyllostachysnigra,orBlackBamboo,isagiantgrasscharacterizedbylargewoodystemsthatis nativetoSouthernChina.Plantsspreadbyveryvigorousrhizomesanditisconsideredarunningf ormofbamboo.Innature,plantswillreach25feet(>7.6m)tallandthestematmaturitywillreach2 inches(5cm)indiameter.ClumpscanbecomeverylargeifleftuncontrolledIncontainers,itmak eanoutstandinglookingplant,butduetothevigorousgrowththeywilloutgrowmostcontainersi nacoupleofyears.Ihaveseenthisplantbreakceramicpotswiththeirrhizomes.Inthelandscape,t heymakegreathedgeplant,butbecarefulaboutcontrollingtheirroots.Itishardyinthelandscape inUSDAzones8-10.

•CYCUS REVOLUTA

Cycasrevoluta(sagocycad),isan attractiveplantnativetosouther nJapan. Thoughoftenknownbyt hecommonnameofkingsagopal m,orjustsagopalm,itisnotapalm atall,butacycad.

Thisverysymmetricalplantsuppor tsacrownofshiny,darkgreenleave sonathickshaggytrunkthatistypic allyabout20cm(7.9in)indiameter, sometimeswider.Theleavesaread eepsemiglossygreenandabout50–150cm(20–

59in)longwhentheplantsareofare productiveage. They growout into a feather-

likerosetteto1m(3.3ft)indiameter. Thecrowded,stiff,narrowleaflets are8–18cm(3.1–

7.1in)longandhavestronglyrecur vedorrevoluteedges. Thebasalleaf letsbecomemorelikespines. Thep etioleorstemsofthe Sago Cycadare 6–10cm(2.4–3.9in)





HAJJ HOUSE

WATER BODIES:

Water bodies are so very important as it not only has the aesthetic value but as has its functional value. The water bodies generate a micro-climate around its and create a cool space. placed along the wind direction to generate an ambiguous environment. it decrease the temperature by about 5 c

.AESTHETIC FACTORS-

- Auditory
- Psychological
- Sensory effects
- Visual

FUNCTIONAL FACTORS-

- •Recreational
- Circulation control
- •Utilitarian

GREEN PAVERS:







HAJJ HOUSE

THANK YOU

HAJJ HOUSE VARANASI

GUIDE BY: AR. ARVIND KUMAR SINGH