

GAUR WORLD STREET, GREATER NOIDA (WEST) THESIS 2019-20

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THESIS REPORT ON GAUR WORLD STREET , GREATER NOIDA (WEST)

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

BACHELOR OF ARCHITECTURE

BY

ARUSHREE RAJ (1150101020)

UNDER THE GUIDANCE OF PROF.K.K. DIXIT (SESSION 2019-20)

TO THE
SCHOOL OF ARCHITECTURE
BABU BANARSI DAS , UNIVERSITY
LUCKNOW

SCHOOL OF ARCHITECTURE AND PLANNING BABU BANARASI DAS UNIVERSITY, LUCKNOW (U.P.).

CERTIFICATE

I hereby recommend that the thesis entitled, "GAUR WORLD STREET, GREATER NOIDA (WEST)." under the supervision, is the bonafide work of the student and can be accepted as partial fulfillment of the requirement for the degree of Bachelor's degree in architecture, School of Architecture and Planning, BBDU, Lucknow.

Prof. Mohit Kumar Agarwal Dean of Department		Prof. Sangeeta Sharma Head of Department
	Recommendation	Accepted
		Not Accepted
External Examiner		External Examiner

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CERTIFICATE OF THESIS SUBMISSION FOR EVALUATION

1. Name :	
4. Degree for which the thesis is submitted:	
5. Faculty of the University to which the thesis is submitted	
6. Thesis Preparation Guide was referred to for preparing the thesis.	YES/NO
7. Specifications regarding thesis format have been closely followed.	YES/NO
8. The contents of the thesis have been organized based on t guidelines.	the YES/NO
9. The thesis has been prepared without resorting to plagiarism.	YES/NO
10. All sources used have been cited appropriately. 11. The thesis has not been submitted elsewhere for a degree	YES/NO e. YES/NO
12. Submitted 4 spiral bound copies plus one CD.	S/NO
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ACKNOWLEDGEMENT

First and foremost gratitude towards the almighty "GOD" for his blessings.

I am thankful to all my faculty members who have been extremely co-operative since the very beginning and who helped me to utilize my skills and creativity to the utmost.

Sincere thanks to **Ar. Urvashi Dixit and Ar. Shailesh kumar** (Thesis Co-ordinator), who left no stone unturned to shape our thesis in the best possible way and also for there untimely help whenever required.

I express my deepest gratitude to my **PROF. K.K. DIXIT SIR** (thesis guide), for his valuable dispassionate guidance, critical discussions, suggestions and continuous support all through my B.Arch thesis.

I would like to thank all my friends and batch mates for their support during my thesis as well as the whole 5 year of study. Each one of them has contributed towards making me a better person and the time I spent with all of them will always be cherished

DEDICATED

TO

THIS THESIS REPORT IS DEDICATED TO MY "LOVING FAMILY"

WHOSE BLESSINGS AND PRAYERS STRENGTHEN UP TO DO MY PROJECT SUCCESSFULLY.

DEDICATE TO MY "PARENTS", WHO HAVE ALWAYS SUPPORTED ME AND ENCOURAGING ME THROUGHOUT THIS LEARNING PHASE OF MY LIFE AND HAVE ALWAYS MADE ME BELIEVE IN HARDWORK.

THIS THESIS WORK I WOULD LIKE TO DEDICATE TO THEM FOR ALL THEIR EFFORT, GUIDANCE AND SUPPORT TO ME.

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GAUR WORLD STREET (COMMERCIAL PROJECT)

INTRODUCTION ABOUT PROJECT:

GAUR WORLD STREET IS A COMMERCIAL DEVELOPMENT IN (ALPHA 1 GR.NOIDA, GREATER NOIDA. THE PROJECT IS BUIT BY FASTIDIOUS BUILDMART. THEY PROVIDE COMMERCIAL SHOPS WITH ALL NECESSITIES. IT IS APPROVED BY UTTAR PRADESH RERA(UTTAR PRADESH REAL ESTATE REGULATION AUTHORITY).

- GAUR GROUP BRINGS A NEW WORLD ORDER OF DOING BUSINESS IN THE MOST PROFITABLE WAY
- GAUR WORLD STREET IS A UNIQUE AMALGAMATION OF COMMERCIAL AND RETAIL TO CHURN OUT BUSINESS OPPORTUNITIES AS NEVER BEFORE .
- INTELLIGENTLY LOCATED NEAR THE PRIME LOCATION OF GAUR CHOWK, SURROUNDED BY SEVERAL GROUP HOUSING PROJECTS AND CLOSE TO 5 LAKH RESIDENTS IN THE VICINITY TO PROVIDE YOU WITH A READYMADE CLIENTELE FOR UNPRECEDENTED SUCCESS.

SITE DETAILS AREA AND LOCATION:

- •RIGHT ON 130 METER WIDE ROAD
- APPROX 5 LAKHS* RESIDENT S IN THE VICINITY
 - •2.5 Km FROM GAUR CHOWK
 - •7Km FROM NH-9 (nh-24)
 - •9Km FROM SECTOR 71, NOIDA
 •3 SIDE OEN PLOT
- •AREA-LANDAREA 5 ACRES
- •TYPE -COMMERCIAL PROJECT
- •WELL CONNECTED TO NOIDA, GHAZIABAD AND DELHI
- •CLOSE TO AN UPCOMING METRO STATION
- 11Km DRIVE FROM NOIDA CITY CENTRE
- •5 LAKH RESIDENTS* IN THE NEIGHBOURHOOD ENSURING HEAVY FOOTFALL.

HISTORY AND BACKGROUND:

- FOUNDED ON THE TWIN VALUES OF QUANTITY AND TIMELY DELIVERY GAURS HAS TODAY ESTABLISHED ITSELF AS A BYWORD FOR TRUST IN REALITY SECTOR.
- AS ONE OF THE LEADING REAL ESTATE DEVELOPERS IN INDIA, THE NAME IS MARQUEE FOR PRESTIGIOUS PROJECTS IN RESIDENTIAL, COMMERCIAL AND RETAIL PROPERTIES LOCATED IN THE AREAS OF DELHI, NCR, UP. FOUNDED BY Sh. B.L. GAUR, THE GROUP HAD A HUMBLE BEGINNING AND STARTED BY DEVELOPING AN APARTMENT PROJECT IN SAHIBABAD IN THE YEAR 1995.
- TODAY THE GROUP STANDS TALL WITH ALMOST 45+ COMMERCIAL PROJECTS, WITH A TRACK RECORD OF SUSTAINED GROWTH, ARCHITECTURAL AND ENGINEERING EXCELLENCE. AS A HIGHLY SKILLED PROFESSIONALISED REAL ESTATE COMPANY ADHERES TO THE HIGHEST STANDARDS IN QUALITY AND RELENTLESSLY PURSUE CUSTOMERS DELIGHT.
- GAURS IS ALSO AT THE VANGUARD OF ALL INITIATIVES TO INJECT TRANSPARENCY, CLARITY, CUSTOMER SECURITY AND ASSURANCE BY UPHOLDING ITS VALUES IN LEGISLATIVE MOVES LIKE RERA —BOTH IN LETTER AND THE SPIRIT.

AIM AND OBJECTIVES:

- TO PLAN, CO-ORDINATE AND DIVERSE ACTIVITIES OF MODERN COMMERCIALPROJECT.
- THE PROJECTION OF IDEAS AND ACTIVITIES IN TO NEW ENDEAVOURS.
- TO DEVELOP THE SKILLS OR INSIGHTS ALONG THE WAY THAT WILL ENABLE TO PROGRESS IN A GOOD MANNER.
- A SPECIFIC OBJECTIVE INCREASES THE CHANCES OF LEADING TO A SPECIFIC OUTCOME.
- OBJECTIVES SHOULD SHOW HOW SUCCESSFUL A PROJECT HAS BEEN

•PROJECT AIM AND OBJECTIVES CAN INVOLVE FOLLOWING ACTIVITIES;

- •PLANNING –DECIDING (WHAT IS TO BE DONE)
- ORGANISING –MAKING ARRANGEMENTS
- STAFFING-SELECTING
- DIRECTING —GIVING INSTRUCTIONS
- MONITORING-CHECKING ON PROGRESS
- CONTROLLING-TAKING ACTION TO REMEDY HOLD UPS INNOVATION-COMING UP WITH NEW SOLUTIONS
- REPRESENTING -LIAISING WITH USERS

PROJECT REQUIREMENTS:

- GAUR WORLD STREET IN FUTURE POISED TO BE ONE OF THE GREATEST RETAIL AND COMMERCIAL HUB IN GREATER NOIDA WST.
- THIS TEEMING HUB IS HOME TO A MASSIVE EMPORIUM EXCLUSIVELY FOR;
- RETAIL BRANDS
- SHOPPING COMPLEXES
- KIOSKS
- FOOD COURTS
- WHERE BRANDS WILL FIND OPPORTUNITIES THAT CAN LEAD TO UNPRECEDENTED SUCCESS.
- ONE-STOP DESTINATION, WHERE YOU —SHOP, DINE, MEET, CELEBRATE AND CREATE MEMORIES.
- CLIENT NAME -GAURSONS INDIA PRIVATE LIMITED

SITE STUDY

WORLD STREET, GREATER NOIDA (WEST)

ARUSHREE RAJ - 5TH YEAR ARCHITECTURAL THESIS (2019-2020)

SITE ANALYSIS > GENERAL INFORMATION

Location: Alpha 1 Greater . Noida

Land use: Commercial

Proximity: •Close to an upcoming metro station

•11Km Drive from Noida city centre

Roads: Well Connected to Noida, Ghazibad and Delhi Surroundings: Gaur city mall, Gaur city Centre, Gaur chowk

5 lakh residents in the neighbourhood, ensuring heavy footfall.



LOCATION ADVANTAGES

- •RIGHT ON 130 METER WIDE ROAD
- •APPROX 5 LAKHS* RESIDENT S IN THE VICINITY
- •2.5 Km FROM GAUR CHOWK
- •7Km FROM NH-9 (nh-24)
- •9Km FROM SECTOR 71, NOIDA
- •3 SIDE OEN PLOT
- AREA-LANDAREA 5 ACRES



Trees: Palm, neem, bargad, etc





SITE CONDITIONS

Soil Type: Alluvial soil consisting of Clay and silt. The alluvial soil is mainly sandy and with thickness of about 10-15m

Water Table: Ground water level is below the Alluvial soil about 60m below ground level. Limited thickness of aquifers resist the development of ground water. The availability of ground water is also limited and is controlled by secondary permeability imported by joints and fractures.

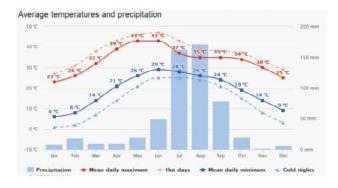
Topography: Plain but Unevenness in land level due to uneven digging of land.

More water is needed to settle down unevenness in land level.

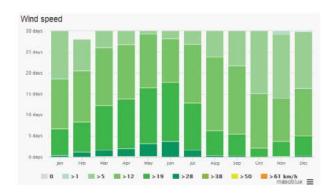
SITE STUDY

WORLD STREET, GREATER NOIDA (WEST)
ARUSHREE RAJ - 5TH YEAR ARCHITECTURAL THESIS (2019-2020)

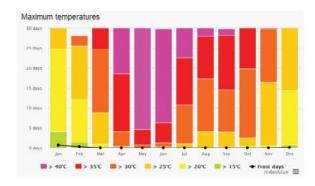
SITE ANALYSIS > Climate Conditions



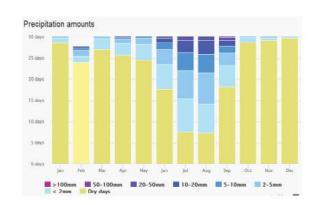
Precipitation is the lowest in April, with an average of 3 mm. In August, the precipitation reaches its peak, with an average of 188 mm.



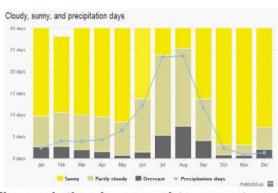
Highest speed of wind in June and lowest in Oct.



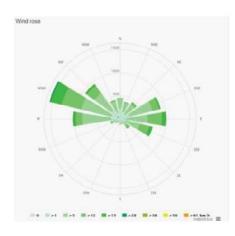
At an average temperature of 34.2 °C, June is the hottest month of the year. At 14.4 °C on average, January is the coldest month of the year.



Between the driest and wettest months, the difference in precipitation is 185 mm.



The variation in annual temperature is around 19.8 °C.



North-west and east winds at speed ranging from 0 to 28 km/h

SITE STUDY

WORLD STREET, GREATER NOIDA (WEST)
ARUSHREE RAJ - 5TH YEAR ARCHITECTURAL THESIS (2019-2020)

SITE PHOTOS











WORLD STREET, GREATER NOIDA (WEST)

ARUSHREE RAJ - 5TH YEAR ARCHITECTURAL THESIS (2019-2020)

CASE STUDY 1> DLF CYBER CITY, GURGAON,

General Information:

Location: Gurgaon, Haryana

Client: DLF

Program: Integrated Office & Entertainment Complex

Proximity: Surrounded by rapid metro 7km from

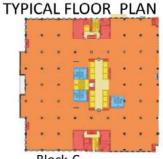
I.G.I Airport 7km from Gurgaon I.S.B.T 10.5km

from Gurgaon Railway

Architect: Hafeez Contractor



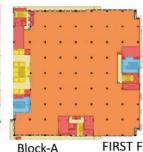
DLF Innov8 is spread across an area of approx 1.4 million sq.ft. It is divided into 3 blocks (8A, 8B & 8C), with a range of 6-16 floors. Conforming to modern work environment, facilities like food court, ATM and retail outlets, forms an integral part of the complex. The Design incorporates large efficient floor plates, wide column span of 8.4m and high floor to floor clearance of 3.8m, for optimal space utilization. The building structure is designed to Seismic zone V specifications for greater earthquake resistance.

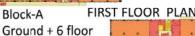


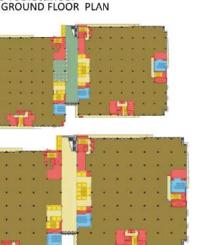
Block-C Ground + 15 floor



Block-B Ground + 8 floor







Area Det	ails(m2)	
Footprint area	14000	
Built-up area	143500	
Retail area	14500	10 %
Usable Office area	95450	66.5 %
Wet area	4000	3 %
Services area	12490	9 %
Vertical circulation	6920	5 %
Circulation	5170	4.5 %
Enterance Johby	2000	1 5 %

Ar	ea Program	Area (m2)
Retail	Gaming station	1800
	Bar	700
	Day care center	600
	Retail shops	60-300
	Restaurants	380
	Cafeteria	200
	Bank & ATMs	600
	Physical fitness	1200
Office	Small	1200
	Medium	1800
	Large	3200
Services	A.H.U	45-64
	Toilet	36-64
	Electrical room	1220



THESIS TOPIC - WORLD STREET, GREATER NOIDA (WEST)

ARUSHREE RAJ - 5TH YEAR ARCHITECTURAL THESIS (2019-2020)

DLF Cyber City, Gurgaon >> (Services)



Roof top AHU exhost fan units.



Solar panels 110 kw of solar pannels on roof top of innov8 building



Natural gas power generation 4units of power generator 1.4MW each Total power = $1.4 \times 4 = 5.6MW$

= 1600m² = 7.6 m

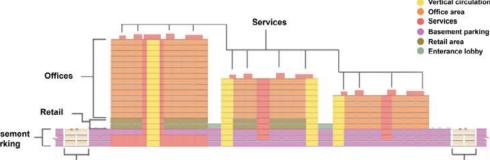
Area = 900m2

Location = 2nd basement below

Water treatment plant Height= 4m



Legend Vertical circulation



DLF Cyber City, Gurgaon >> (Zoning)

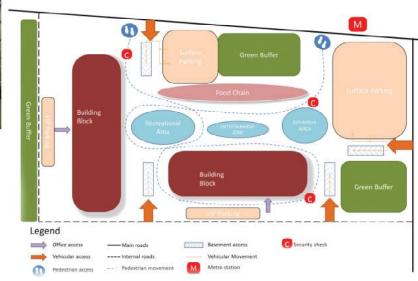


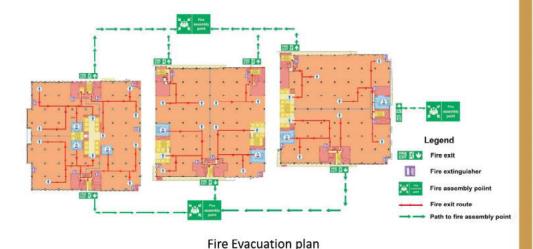
HVAC absorbtion chiller Plant Cooling by exhaust gas from power generation.

4units of absorption chillers cooling capacity 496RT each unit Total cooling capacity= 1984RT

Height = 7.6m

Area = 1200m²





THESIS TOPIC - WORLD STREET, GREATER NOIDA (WEST)

ARUSHREE RAJ - 5TH YEAR ARCHITECTURAL THESIS (2019-2020)

Case Study 1> DLF Cyber City, Gurgaon >> (Observations)

- VEHICULAR MOVEMENT RESTRICTED ALONG THE PERIPHERY
- RANDOM PEDESTRIAN MOVEMENT
- VIP PARKING PROVIDED IN FRONT OF OFFICE ACCESS
- PRIORITY FOR PEDESTRAIN MOVEMENT
- GROUND AND FIRST FLOOR DEDICATED TO RETAIL AND FOOD COURTS
- WARIATION IN BLOCK HEIGHT TO MENTAIN HIGH RISE OF BUILDING
- **OPEN OFFICE PLANNING TO MENTAIN FLEXIBLITY**
- SEGRIGATION OF RECREATIONAL AREA AND OFFICE ACCESS

- AS ORIENTATION OF BUILDING IS ALONG EAST-WEST DIRECTION LARGE FACE OF BUILDING IS DIRECTLY EXPOSED TO EAST & WEST SIDE SUN HENCE INCREASE IN HEAT GAIN AND INCREASE IN AIRECONDITIONING LODE
- DEPTH OF FLOORE PLATES IS LARGER SO THAT DAY LIGHT IS LIMITED IN OFFICE AND HENCE INCREASE IN ARTIFICIAL LIGHTING LOAD.
- AIRFLOW IS AFFECTED DUE TO HEAVY MASSES OF BUILDINGS

BUILDING 16

CYBER HUB

General Information:

Location: Gurgaon, Haryana

Client: DLF

Program: Integrated Office & Entertainment Complex
Proximity: Surrounded by rapid metro 7km from I.G.I

Airport 7km from Gurgaon I.S.B.T 10.5km from Gurgaon Railway

Architect: Hafeez Contractor

Overview:

CyberHub is India's first integrated Buisness and entertainment destination with

unique and one-of-its-kind concept. Spread over 2 lakh sq. ft. of area, A space catering to 50 food brands under its belt, CyberHub, not only caters to the corporate and business hubs in the vicinity but to the catchment in and around Gurgaon. CyberHub is a must visit place for the people who would want a new experience every time they visit & be it in food, beverages or social offerings.

Case Study 2> DLF Cyber Hub, Gurgaon

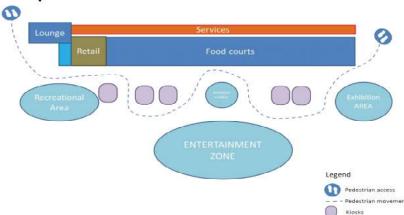
THESIS TOPIC - WORLD STREET, GREATER NOIDA (WEST)

ARUSHREE RAJ - 5TH YEAR ARCHITECTURAL THESIS (2019-2020)

Case Study 2> DLF Cyber Hub, Gurgaon

The facade towards NH8 is used for large size advertising and interactive map/promotions are well placed at the entrances

Zoning diagram





Case Study 2> DLF Cyber Hub, Gurgaon >> (Observations)

- VEHICULAR MOVEMENT RESTRICTED ALONG THE PERIPHERY.
- RANDOM PEDESTRIAN MOVEMENT
- PRIORITY FOR PEDESTRAIN MOVEMENT
- A 3 M WIDE CORRIDOR IS CREATED ON ALL FLOORS TOWARDS NH8 SIDE THAT IS DESIGNATED FOR SERVICE UTILITY AND IS COVERED WITH GREEN LANDSCAPED WALLS AND ADVERTISING PANELS. IT AMAZINGLY PROVIDES AS A SOUND BARRIER BETWEEN NH8 TRAFFIC AND THE PUBLIC AREAS.
- ADVERTISING AND BRANDING HAS BEEN TAKEN VERY CAREFULLY WITH STRATEGICALLY PLACED SIGNAGE, THE PARAPET ON THE FIRST FLOOR TERRACE IS PROVISIONED TO HAVE ADVERTISEMENTS.

 THE AMPHITHEATER AREA HAS ONE LARGE SCREEN WHERE DIGITAL ADVERTISEMENTS ARE DISPLAYED. A LSO THE BLANK WALLS OF THE STAIRCASE SHAFTS ARE USED FOR ADVERTISING.
- LOTS OF NEGITIVE AREAS OON BACKSIDE OF FOOD COURTS

THESIS TOPIC – WORLD STREET GR. NOIDA(WEST) ARUSHREE RAJ – 5th YEAR ARCHITECTURAL THESIS 2019- 20 LITERATURE STUDY 1> SAN FRANCISCO FEDERAL BUILDING, MORPHOSIS

General Building Information: - Program: Office

Location: San Francisco, California

Architect: Morphosis [

Site Area: 2.1 acres/0.8 hectares Building Area: 605,000 sq ft (56, 205 sq m)

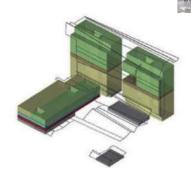
Number of Stores: 18 story office tower Building Height: 234 ft (71.3 m) Construction: 2003 - 2007

CONTEXT

The San Francisco Federal Building is situated on a site in San Francisco, California's South of Market (SoMa) District. It is situated on a block that is turned 45 degrees off the north-south axis which gives it a unique and challenging condition, environmentally. San Francisco is located in a highly active seismic zone which adds additional challenges and possibilities to the project.

FORM

The Federal Building is comprised of three major forms on site. At the northwest edge of the site is an eighteen-storey tower. To meet the scale of the public, a four-storey annex extends along the southwest. The remainder of the site contains an open plaza with a free standing pavilion at the east corner that provides interaction with the street level activities



The primary focus of the design was performance based which would have an impact on the urban scale as well as the internal reworkings of the traditional office building. As a mandate, the US government required this building to be a "model office building" which led the design team to develop the project around three major goals: sustainability; redefining office culture to increase heath, efficiency and creativity; and an "urban landmark that engages with the community"

the screen acts like clothing providing protection from the elements (Blum). The 50% porous stainless steel screen acts to protect the floor to ceiling glazed offices from excessive heat gain from its southern exposure. The screen is computer controlled that opens and closes based on climate conditions .Similar to skin, the building is able to regulate itself by "perspiring" if needed by opening pockets in the screen. The screens are opened to allow airflow from the opposite end of the floor plate to exit without hindrance. The building can also "insulate" itself by closing the screen and maintaining an air pocket between it and the building face similar to hair rising over skin to do the same . SCREEN



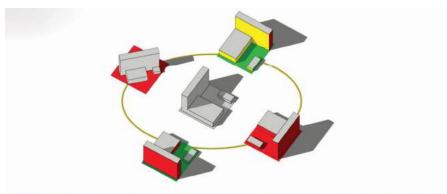




PARTIALLY OPEN SCREEN

The San Francisco Federal Building handles natural weather patterns to achieve independence from energy-reliant methods typical of many government buildings. The building utilizes its orientation to the environment in a way that takes advantage of natural occurring systems that aid in the heating and cooling of the interior spaces. The Federal Building is the first US federal building to be constructed without a mechanical air conditioning system. It relies entirely on natural wind and cross air flows across its shallow floor plate as it is oriented to predominant winds from the northwest.

The different permutations of its current form on the site yield conditions that make its decided orientation the most ideal. Full utilization of the site is critical for any building. By realigning to the north-south axis off the existing city grid, the site becomes disjointed and disconnected. A full 180 degree reorientation refocuses the site to a less active street thus completely closing the site off from the major pedestrian traffic. Each of the 90 degree rotations provide openness in the site, but do not reinforce the idea of it being a border marker between the low-rise and highrise districts. This orientation does not allow for natural ventilation capturing predominant winds critical to the energy saving schemes sought by the government and architect.





The internal logic of the Federal Building is primarily hinged upon improved co-worker relationships and improved health of its users. For the former point, the idea of improving social conditions by means of architecture is revealed in Morphosis' organizing of the vertical access to each level. This employs what Morphosis describes as "a Jacobsian 'sidewalk life' of cross sectional interactions" (Morphmedia). Malcolm Gladwell also notes that "...one study after another has demonstrated [that] the best ideas in any workplace arise out of casual contact among different groups within the same company" (Morphmedia). The elevator accesses every other level which is called Skip-Stop Circulation. By stopping only on every other level, the user is required to access the floor above or below by means of another circulation method such as a set of single storey stairs. With the intentional programming of the space of different departments within these 'mixing-zones', there becomes an increased chance of these casual contacts as Gladwell suggests.



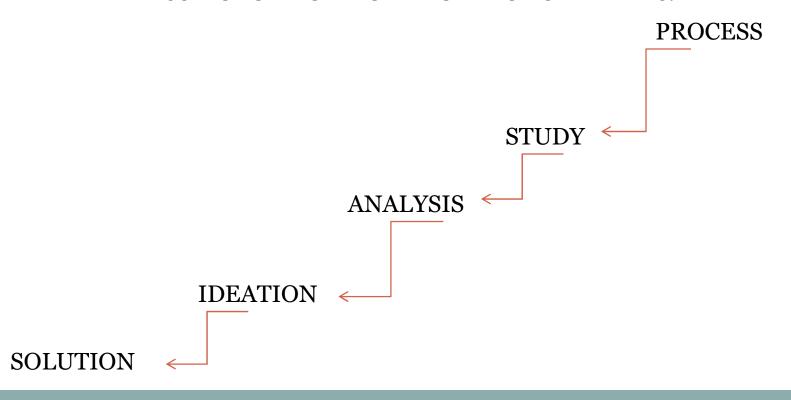


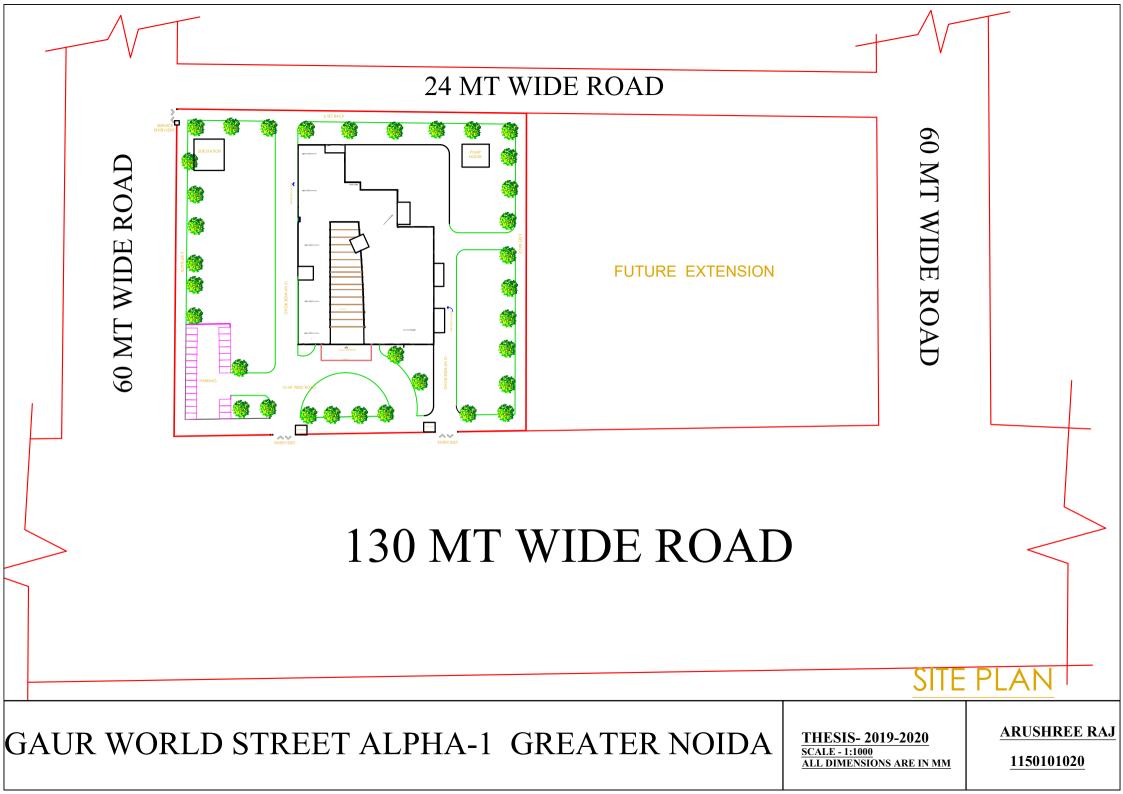
WHAT IS DESIGN & WHAT DESIGN CAN DO?

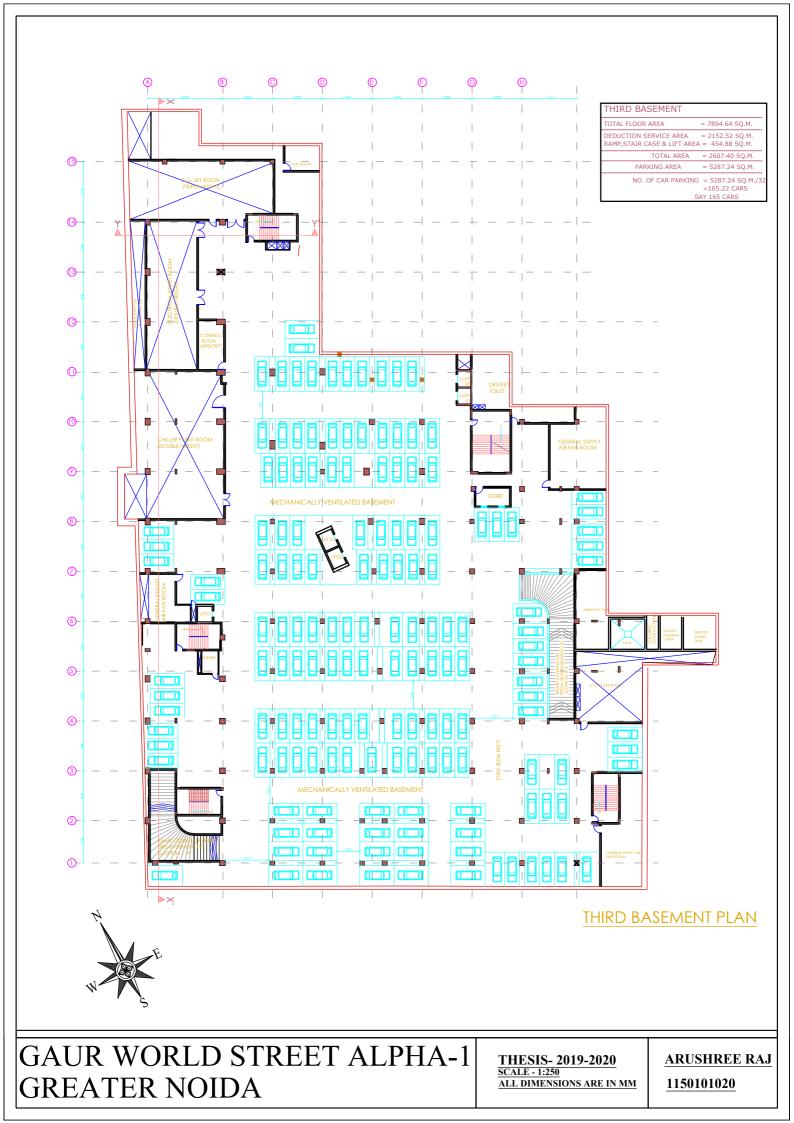
WE EXPERIENCE DESIGN EVERYDAY, IN EVERY MOMENT THAT WE LIVE, RIGHT FROM OUR BATHROOMS TO BEDROOMS, DEVICES TO PUBLIC PLACES

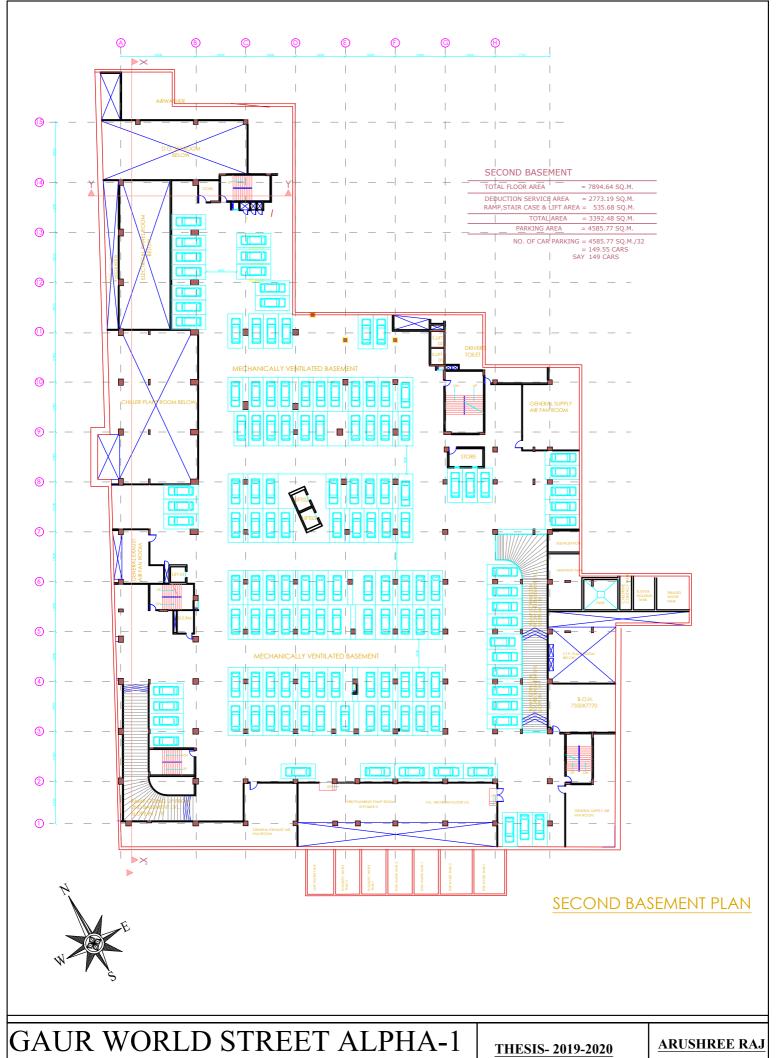
THERE IS NOT A SINGLE ELEMENT THAT IS UNTOUCHED BY DESIGN.

DESIGN IS THE TERM WE USE TO DESCRIBE BOTH THE PROCESS AND THE RESULT OF GIVING TANGIBLE FORM TO HUMAN IDEAS.





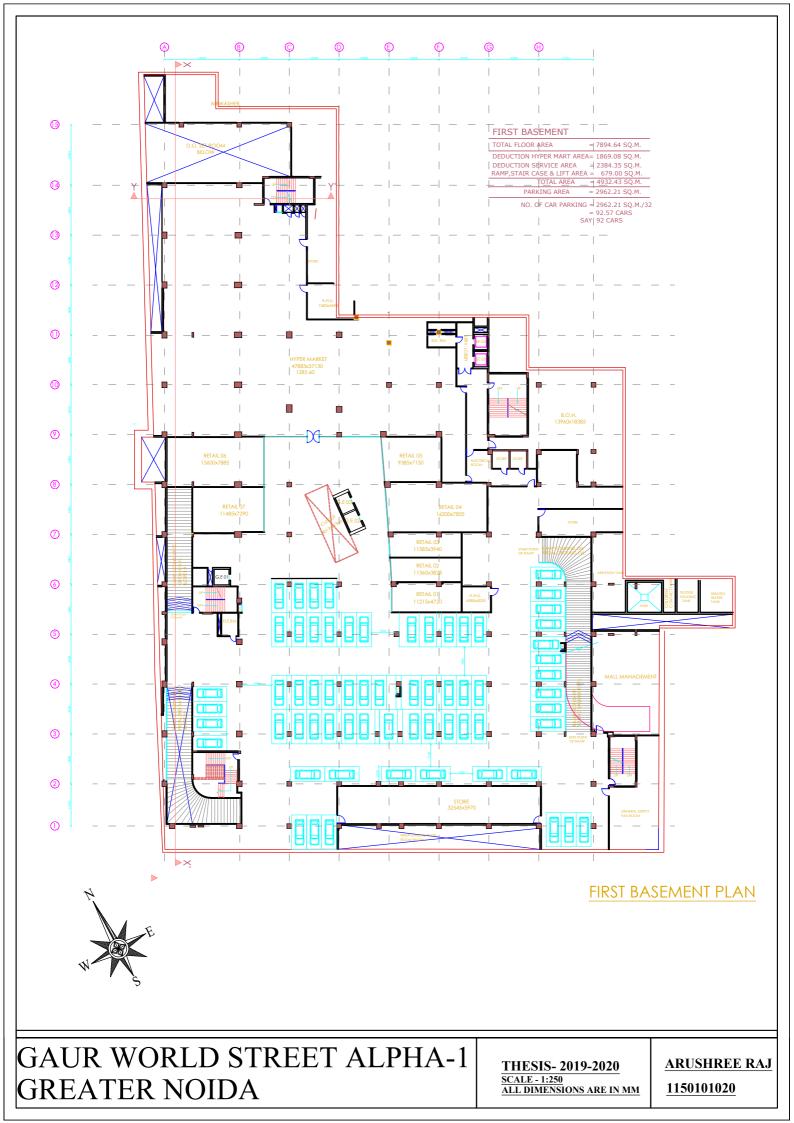


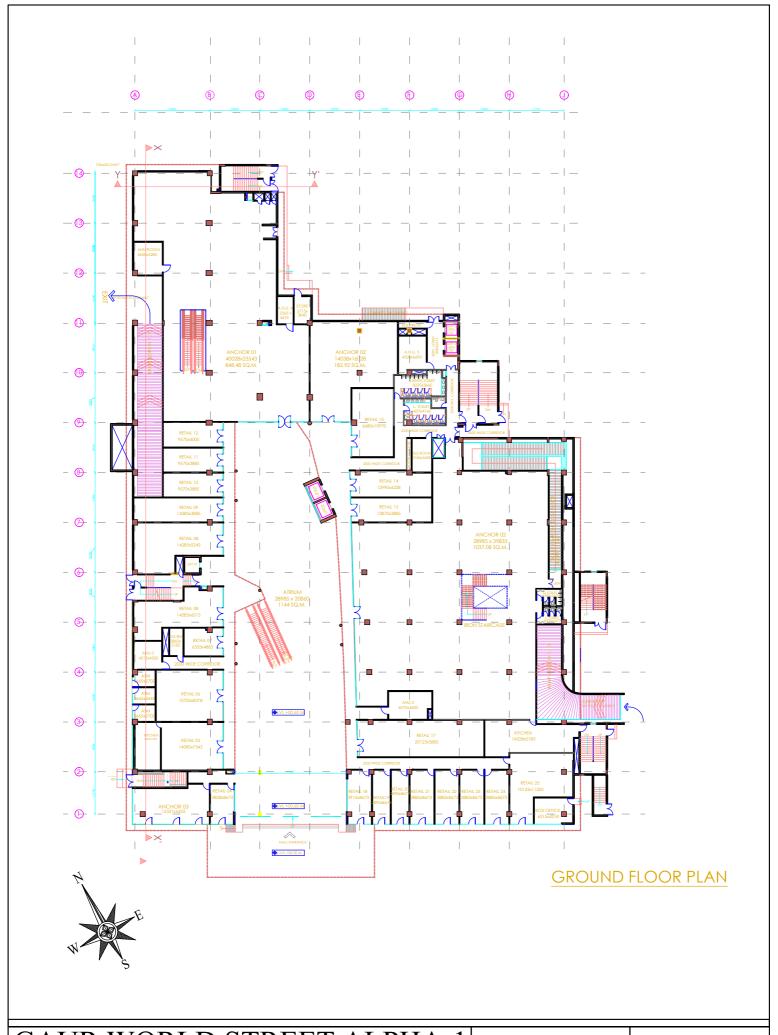


GREATER NOIDA

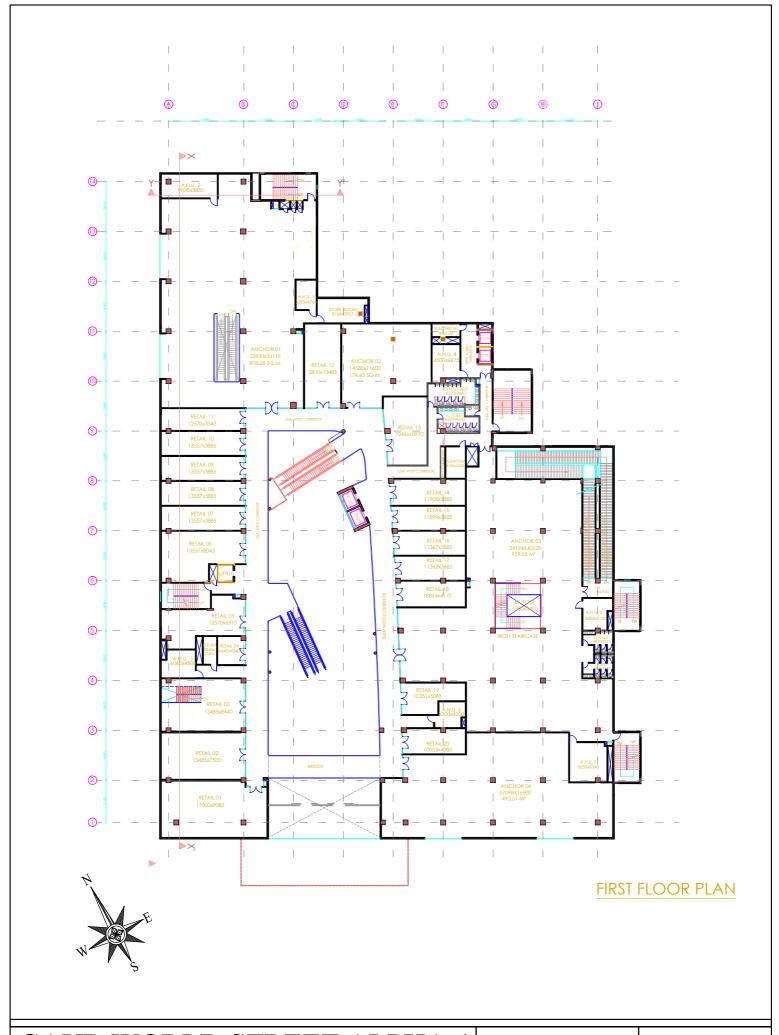
SCALE - 1:250 ALL DIMENSIONS ARE IN MM

1150101020

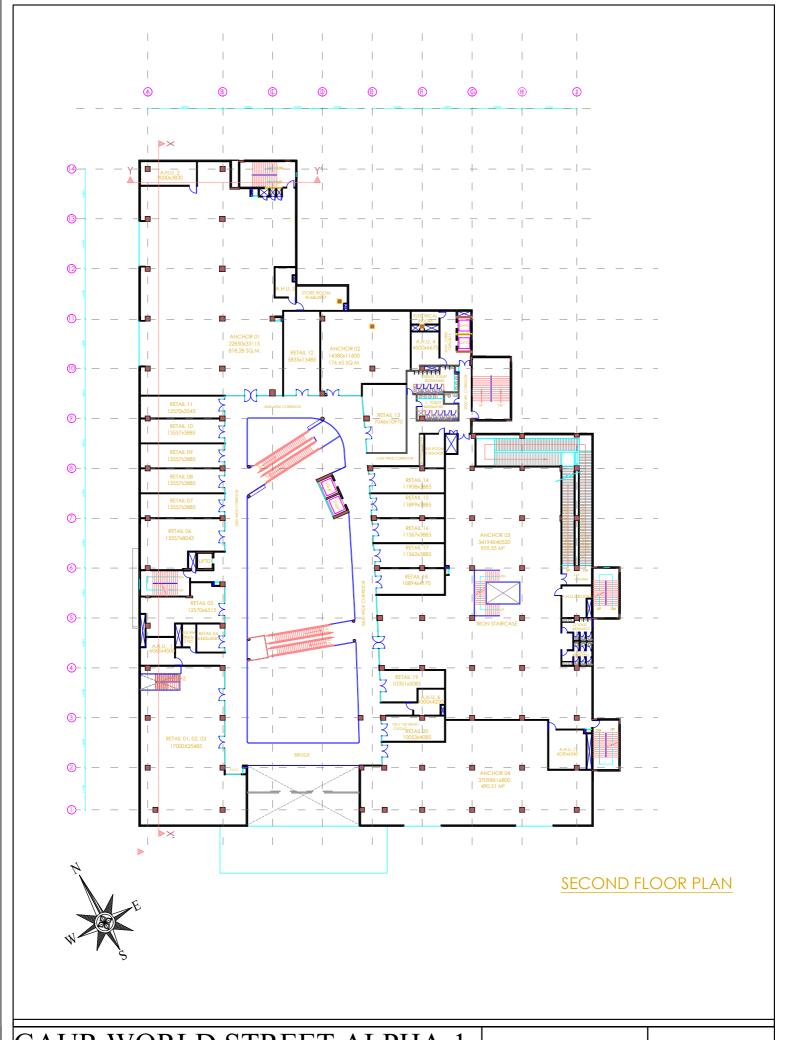




THESIS- 2019-2020 SCALE - 1:250 ALL DIMENSIONS ARE IN MM



THESIS- 2019-2020 SCALE - 1:250

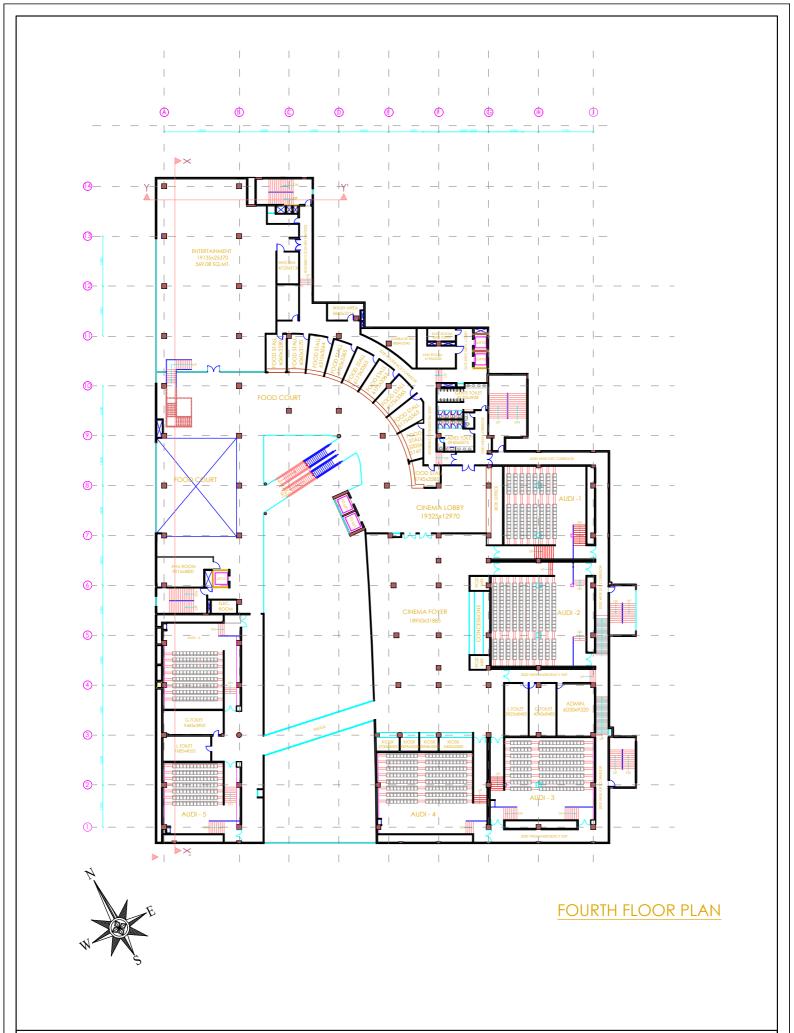


THESIS- 2019-2020 SCALE - 1:250

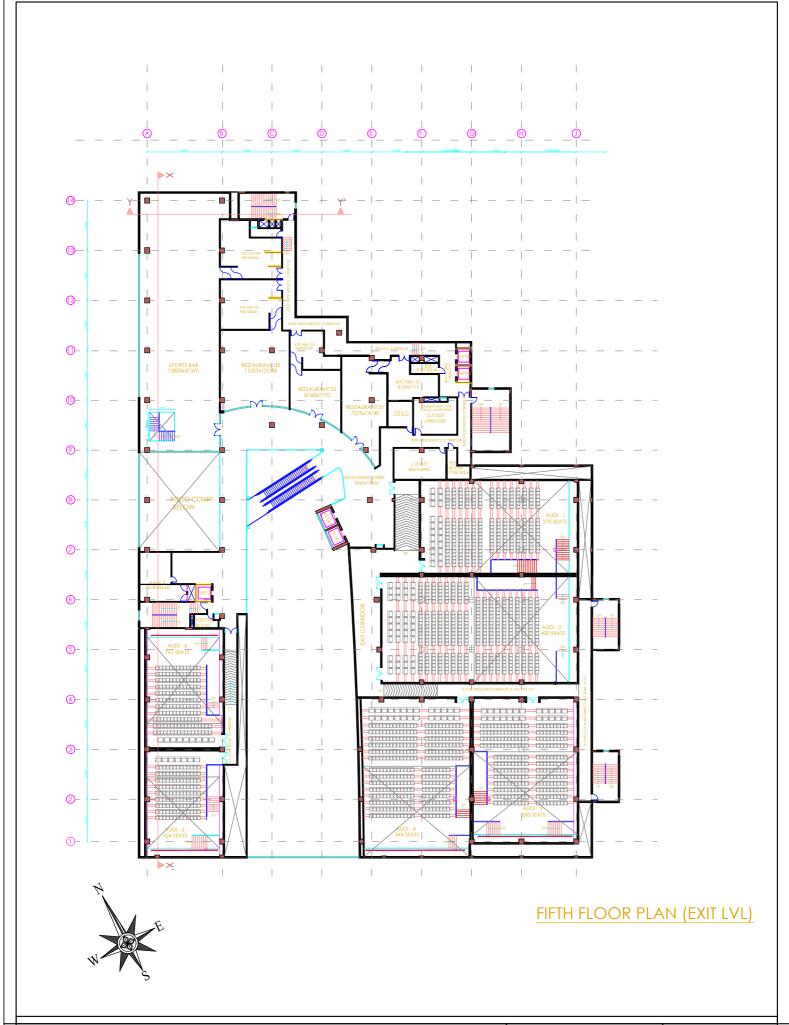




THESIS- 2019-2020 SCALE - 1:250 ALL DIMENSIONS ARE IN MM

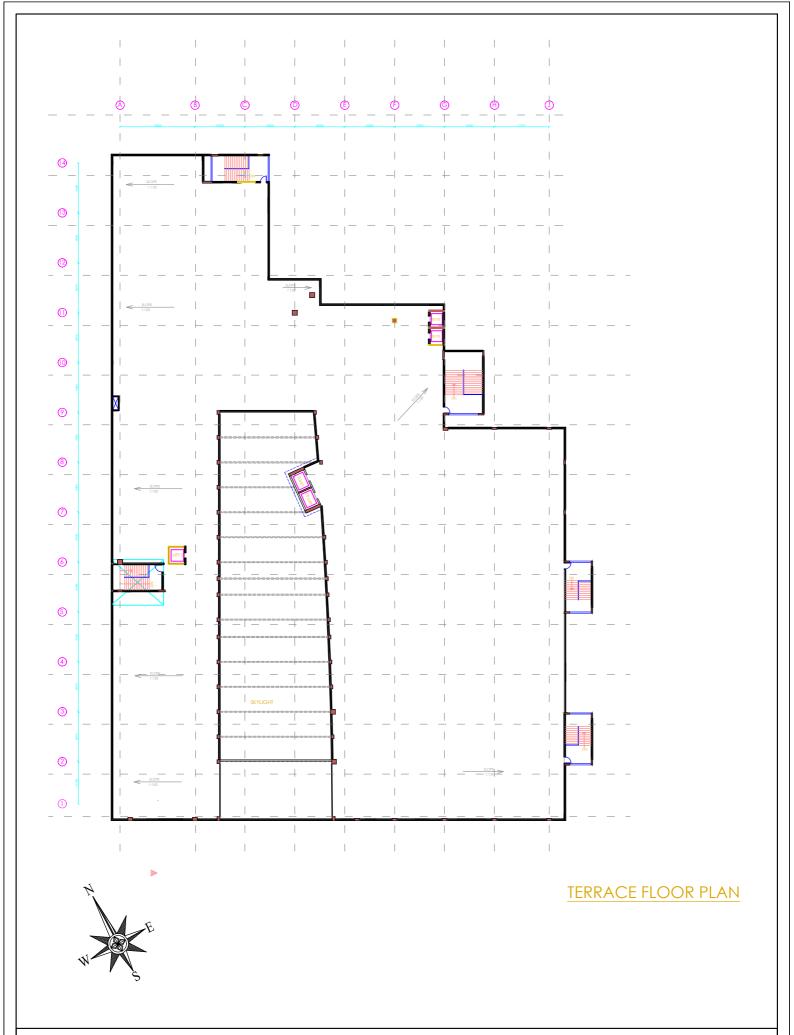


THESIS- 2019-2020 SCALE - 1:250 ALL DIMENSIONS ARE IN MM

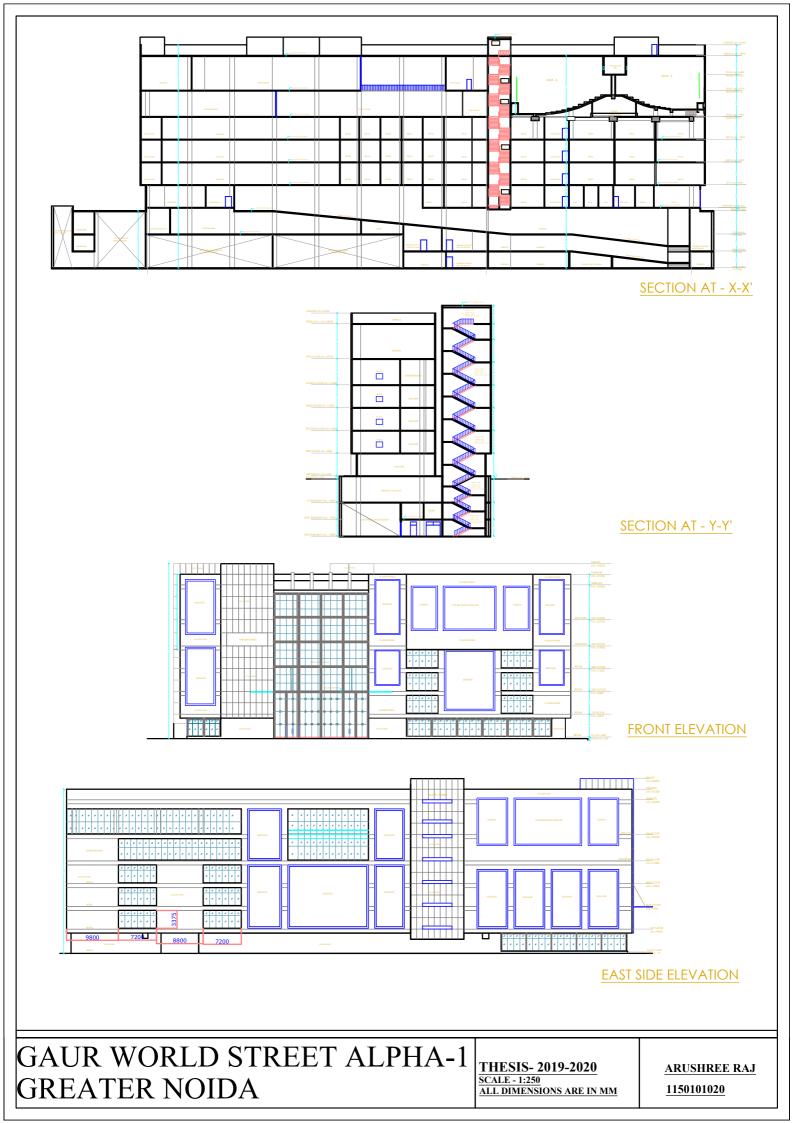


THESIS- 2019-2020

SCALE - 1:250 ALL DIMENSIONS ARE IN MM



THESIS- 2019-2020 SCALE - 1:250 ALL DIMENSIONS ARE IN MM



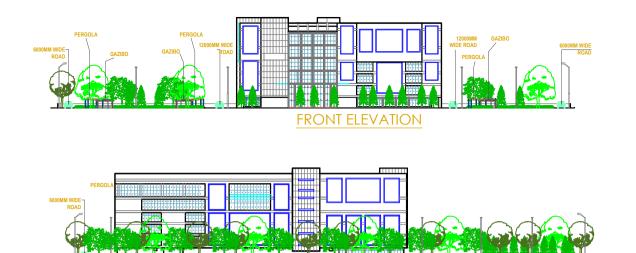
ELECTIVES:

- 1- LANDSCAPING DESIGN PROPOSALS IN DETAIL
- SITE SECTIONS AND ELEVATIONS

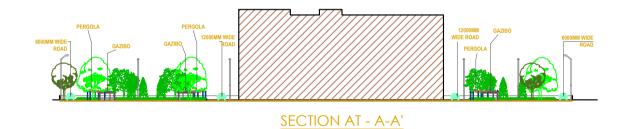
2- PROPOSAL FOR ELECTRICAL SERVICES AND ILLUMINATION

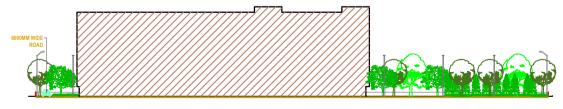


THESIS- 2019-2020 SCALE - 1:1000 ALL DIMENSIONS ARE IN MM



EAST SIDE ELEVATION

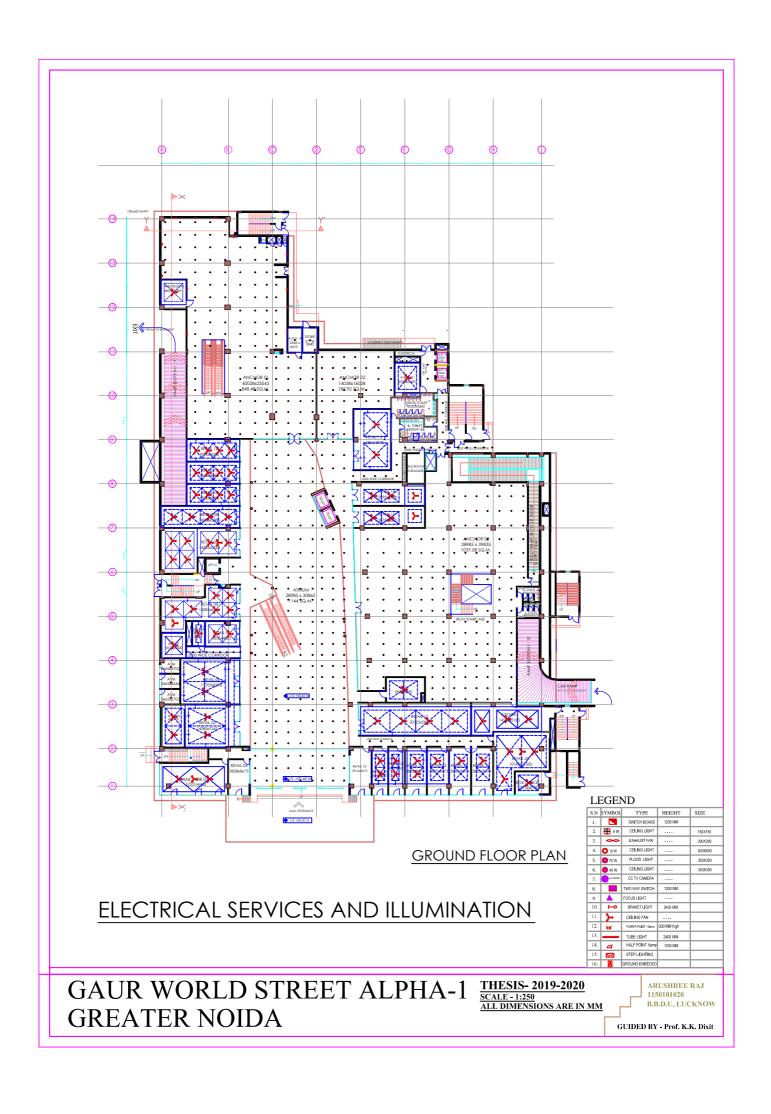




SECTION AT - B-B'

GAUR WORLD STREET ALPHA-1 GREATER NOIDA

THESIS- 2019-2020 SCALE - 1:1000 ALL DIMENSIONS ARE IN MM





DETAILED VIEW

