THESIS REPORT ON

"CONVENTION HOTEL, DWARKA SECTOR 14,DELHI"

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

BACHELOR OF ARCHITECTURE BY VANSHITA VYAS 1170101030

THESIS GUIDE

AR. SANGEETA SHARMA

SESSION

2021-22

TO THE
SCHOOL OF ARCHITECTURE AND PLANNING
BABU BANARASI DAS UNIVERSITY

LUCKNOW.

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

CERTIFICATE

I hereby recommend that the thesis entitled "CONVENTION HOTEL, DWARKA
SECTOR 14, DELHI" under the supervision, is the bonafide work of the students
and can be accepted as partial fulfillment of the requirement for the degree of
Bachelor's degree in architecture, school of Architecture and Planning, BBDU,
Lucknow.

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

ACKNOWDLEGEMENT

I acknowledge my sincere thanks to my faculties **Ar. SANGEETA SHARMA**, **Ar. SATYAM SRIVASTAV**, who guided me through active participation in discussions and gave their kind cooperation throughout the process.

My sincere thanks to our Thesis coordinators **Ar. ANSHUL SINGH** and **Ar. SHAILESH KUMAR YADAV** for his cooperation and understanding at every stage of the study, which gave my study a new direction and made it more meaningful.

I am thankful to our Dean, **Prof. MOHIT AGRAWAL**, and HOD, **Prof. SANGEETA SHARMA** for their cooperation and invaluable support.

I am also thankful to people concerned with my studies for their cooperation and devoting themselves for me.

I would like to express my special thanks to my mentor **AR. MUDIT SHARMA** for his support and guidance, without which this report would not have been in its present shape.

Above all, thanks to my friends, SAURAV, UDBHAW, SHALINI, HARSH DIVENDRYU, UJJWAL for their sincere help throughout the project.

Last but not the least, I thank my Parents for their forever support and blessings.

BABU BANARASI DAS UNIVERSITY, LUCKNOW (U.P.).

Certificate of thesis submission for evaluation

1.	Name	: VANSHITA VYAS		
2.	Roll No.	: 1170101030		
3.	Thesis Title	: CONVENTION HOTEL		
4.]	Degree for whi	ich the thesis is submitted: BACHELORET	ΓΕ IN ARCHITE	CTURE
5.]	Faculty of Uni	versity to which the thesis is submitted:		Yes / No
6.	Thesis prepara	ation guide was referred to for preparing the	thesis.	Yes / No
7.	Specification r	egarding thesis format have been closely follow	lowed.	Yes / No
8.	The content of	the thesis have been organized based on the	guidelines.	Yes / No
9. '	The thesis has	been prepared without resorting to plagiari	sm	Yes / No
10.	All the sources	used have been cited appropriately		Yes / No
11.	The thesis has	not been submitted elsewhere for a degree.		Yes / No
12.	Submitted 3 ha	ard bound copied plus one CD		Yes / No
(Signat	ture(s) of the s	upervisor)	(Signature of th Name: VANSHI Roll No.: 117010	TA VYAS

S.NO	CONTENTS
1	INTRODUCTION
2	SITE STUDY
	a) INTRODUCTION
	b) SITE ANALYSIS
	c) CLIMATE ANALYSIS
	d) SITE SURROUNDING
3	a) LITERATURE STUDY -1 (HYATT REGENCY, PUNE)
	b) LITERATURE STUDY -2 (HOTEL VIVANTA, WHITEFIELD, BANGLORE)
4	STANDARDS
5	a) CASE STUDY – 1 (TAJ HOTEL AND CONVENTION CENTRE, AGRA)
	b) CASE STUDY – 2 (OBEROI, AMARVILLAS, AGRA)
6	AREA ANALYSIS
7	CONCEPT
	a) FORM EVOLUTION
	b) SITE ZONING
	c) FRAMED AREA REQUIREMENTS
	d) DESIGN REQUIREMENTS
8	BIBLIOGRAPHY
9	DRAWINGS

SITE ANALYSIS



1.Dwarka Sector 14, Metro Station



2.Metro Mall



3.Vegas Mall

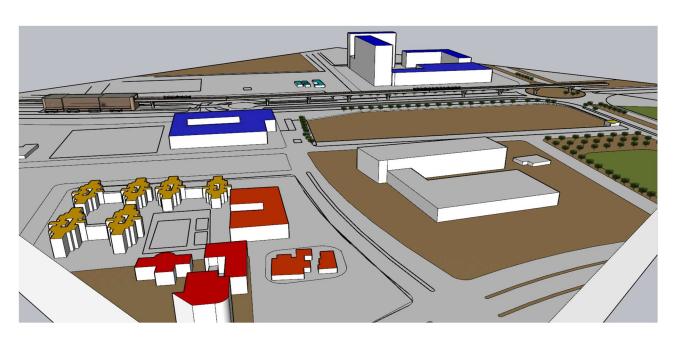


4.National Law



5.DDA Park Sector 14

University Campus



INTRODUCTION

Hotel is an establishment that provides for services such as accommodation, meals, and other services for travellers and tourists. Accommodation can be for any purpose such as over night stay, holidays, business stay, transit etc. Hotel are an important component of the tourism product. They contribute to the overall tourism experience through the standards of facilities and services offered by them. A hotel is a commercial establishment providing lodging, meals and other guest services. They are always located in the area having heavy traffic potential of tourist to target maximum number of visitors in their hotel.

WHAT DOES HOTEL INCLUDE

Social – Gathering Places Like Restaurant Café Bar Ballroom, Food Court

Cultural – Space For Carrying Out Cultural Activities. Open Garden, Banquet Hall.

Entertainment – Gaming Parlour, Cinemas, Theatres.

Leisure – Spa, Gym, Club, Yoga Hall.

Business – Meeting Room, Conference Hall, Offices, Residential, Deluxe And Premium Guest Rooms And Suits

NEED

Five Star Hotel Are Themselves A Tourist Attraction, Places We Go To Splurge And Pamper Ourselves After Long Tiring Schedule Of Our Daily Routine. These Hotels Are More Luxurious And Provide Much Better Quality Of Life Then We Live At Home. The Reason To Stay In A 5 Star Hotel Over A 3 Star Or 4 Star Hotel Is Same As To Go At A Hill Station Than Taking A Walk In A Central Park People We Get To Meet At A Five Star Hotel Are Financially More Secure, Hence The Opportunities Are Incredible To Expand Your Business.

From Business Point Of View Attracts Tourism And Tourism Add Various Multiplier To The Economy Which Further Creates Directs And Indirect Employment Inside As Well As Outside The Hotel.









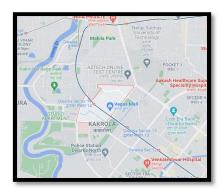




SITE LOCATION

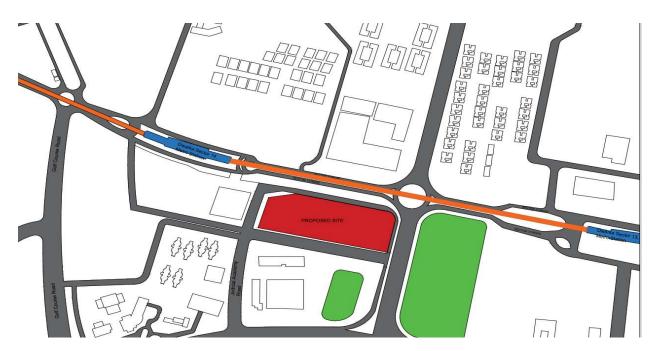












The site is located in Dwarka Sector 14,Delhi, adjacent to Vegas Mall, Eros Metro Mall, National Law University, and Dwarka sector 14 Metro Station.

LANDMARKS













The land has been allotted by DDA for the development of Hotel/Commercial Complex. The surrounded area is developed area. The site is well connected by road network and Metro also.

The proposed project will result in the increase in the social infrastructure as the population related to commercial complex in form of supporting staff, working staff and visitors will increase.

SITE SURROUNDING







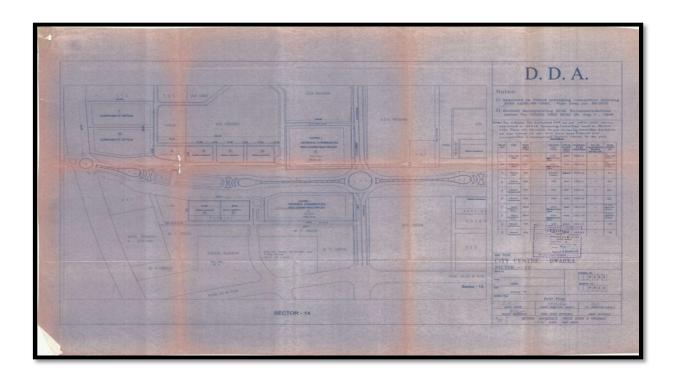








ACCESSIBILITY



The site is accessible from two sides.

Immediate Context - Vegas Mall, Eros Metro Mall, DDA Park, National Law University.

Nearest Metro Station – Dwarka Sector 14, Metro Station (150m)

Nearest Bus Stand – In front of Dwarka Sector 14 Metro Station(150m)

DTC Bus No. – RL75

Nearest Airport – IGI Airport (17.6 Km)

SITE DIMENSIONS

SITE AREA: 24,355 sq. m

GROUND COVERAGE: 40%FLOOR (9742 sq.m)

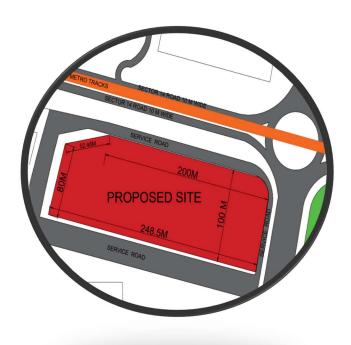
<u>F.A.R</u>: 3

SITE ORIENTATION: NORTH EAST FACING

SITE TOPOGRAPHY: FLAT SITE

SITE VEGETATION: SHRUBS

ACCESS ROAD: Sector 14 Road







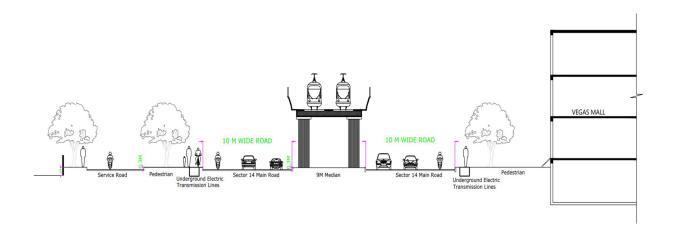


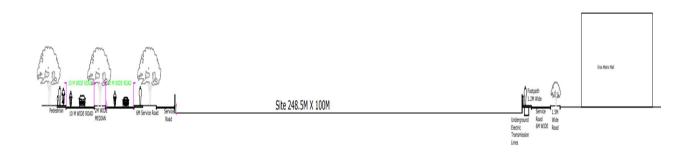


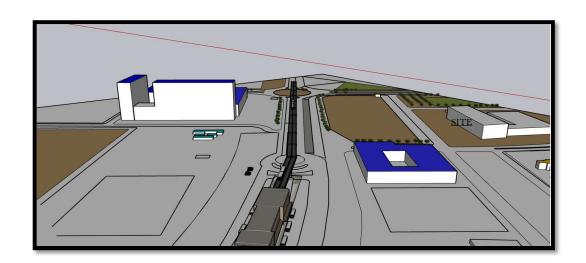


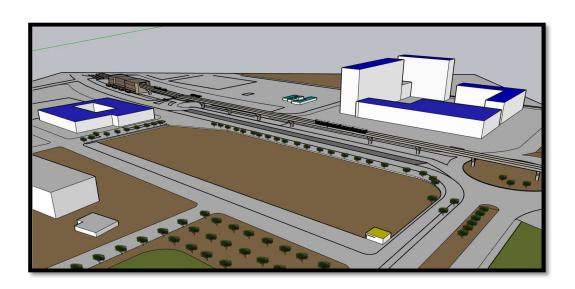


SECTIONS

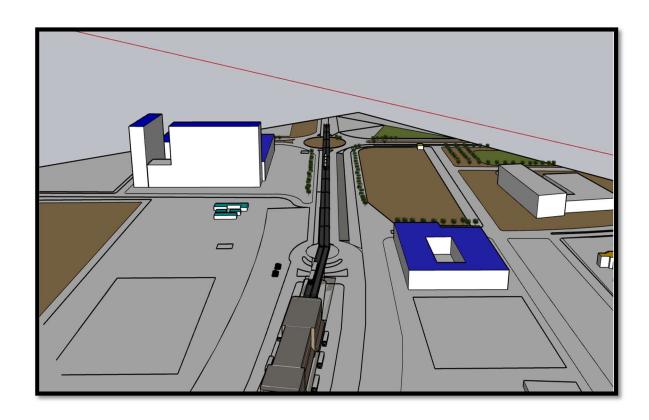


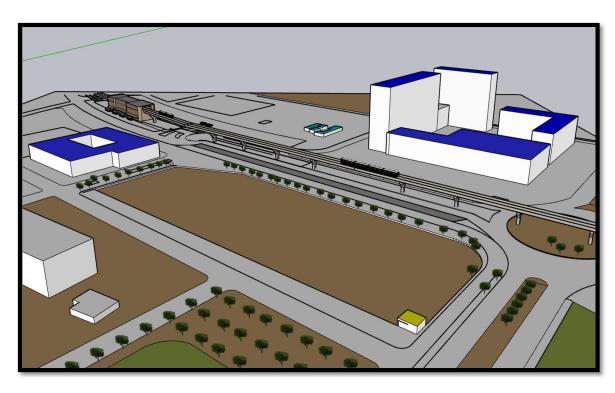






MODEL IMAGE





S.W.O.T ANALYSIS

STRENGTH	WEAKNESS
 Plain Land(low Gradient). Easily Accessible. Surrounded By Road From Two Sides Abundant Natural Resources Like Wind, Daylight Etc. Facilities Like Sewer, Water Supply, Security, Treated Water Etc. Low Ground Table 	• In Earthquake Zone 4.
OPPORTUNITIES	THREATS
• Opportunities Of Increase Foot Fall In Coming Time Due To Propose sports complex in sector 13.	 Highly Earthquake Prone Area Subjective To Severe Damage Unavailability Of Local Market Place Near The Site Usually At Night.

CLIMATIC DATA

New Delhi - the capital of India - is a land locked city. The distance from the sea gives Delhi an extreme type of continental climate with the prevalence of continental air during major parts of the year. Only during the three monsoon months of July, August and September does the air of oceanic origin penetrate to this region and causes increased humidity, cloudiness and rain. The year can be broadly divided into four seasons.

<u>Cold season</u> - December to February

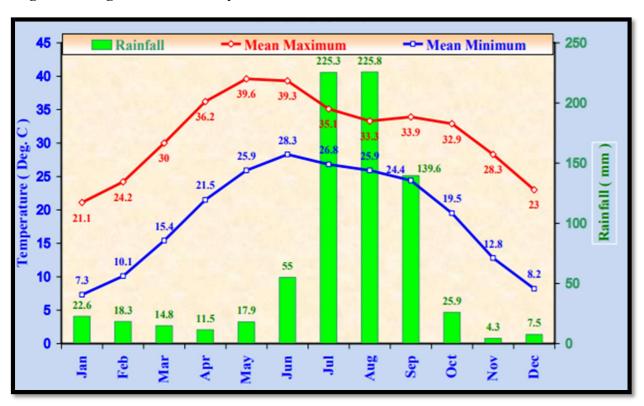
Hot weather season – March to June

<u>Monsoon season</u> – July to September

The two post monsoon months of October and November constitute a transition season from monsoon to winter conditions.

The temperature may **rise up to about 45 degrees** Celsius in summers, though the **average temperature** is around **39-40 degree** Celsius. There are about **4-6 days of heat wave** when the maximum temperature of a day rises 46 degree Celsius above the normal values.

The winters are not bitterly cold on most of the days, the temperatures may fall to 3-4 degree Celsius on for a few days in winters when the cold winds from the Himalayas prevail over the region making the winters chilly.



MAX/MIN TEMPERATURES AND MONTHLY RAINFALL IN DELHI

Month	Mean Mean Min. Temp. (°C) (°C)	Relative Humidity (%)		Month's Total Rain	Rainy days		Days with		
			Mor- Ning	Eve-	(mm)	≥ 2.5mm	≥ 0.3mm	Thunder	Fog
JAN.	21.1	7.3	77	45	22.6	1.7	2.8	1.4	6.8
FEB.	24.2	10.1	68	37	18.3	1.3	2.4	1.9	2.1
MAR.	30.0	15.4	56	29	14.8	1.2	3.0	3.1	0.3
APR.	36.2	21.5	39	20	11.5	0.9	1.7	2.6	0
MAY	39.6	25.9	37	21	17.9	1.4	2.8	4.8	0
JUNE	39.3	28.3	52	35	55.0	3.6	5.9	6.0	0
JULY	35.1	26.8	75	61	225.3	10.0	13.8	8.0	0
AUG.	33.3	25.9	80	68	225.8	11.3	14.6	7.8	0
SEP.	33.9	24.4	72	56	139.6	5.4	7.4	4.0	0.1
OCT.	32.9	19.5	62	41	25.9	1.6	2.1	1.6	0.2
NOV.	28.3	12.8	61	40	4.3	0.1	0.7	0.3	1.1
DEC.	23.0	8.2	73	47	7.5	0.6	1.2	0.8	6.2
Annual	31.4	18.8	63	42	768.5	39.1	58.4	42.3	16.8

DESIGN CONSIDERATION IN COMPOSITE CLIMATE

Objectives

Physical Manifestation

1) Resist Heat Gain In Summer And Resist Heat Loss In Winter

• Decrease Exposed Surface Area -

Orientation And Shape Of Building.

- e Emposou surrue raion
- Use Of Trees As Wind Barriers
- Increase Thermal Resistance
- Roof Insulation And Wall Insulation

• Increase Buffer Spaces

- Air Locks/ Balconies
- Decrease Air Exchange Rate
- Weather Stripping

• Increase Shading Overhangs, Fins And Trees

- Walls, Glass Surface Protected By
- Increase Surface Reflectivity Etc.
- Pale Colour, Glazed China Mosaic Tiles

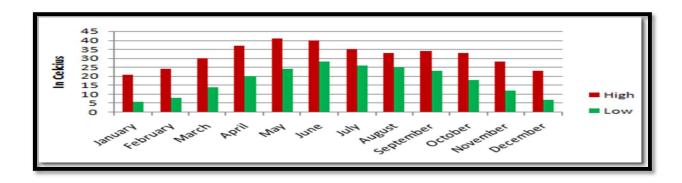
2) Promote Heat Loss In Summer/ Monsoon

- Increase Air Exchange Rate
- Courtyard/ Wind Tower/ Arrangement

Of Openings

• Increase Humidity Levels

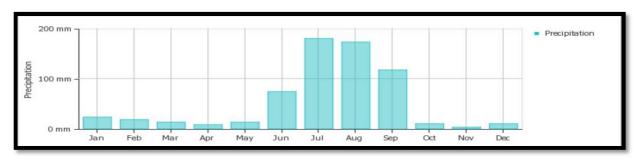
- -Trees And Water Ponds For Cooling Effect
- Decrease Humidity In Monsoon
- Dehumidifiers/ Desiccant Cooling
- Vegetation "Deciduous" These Type Of Trees Are Less Dense Than Evergreen Trees And Shed Their Leaves In Particular Season Of A Year.



RAINFALL

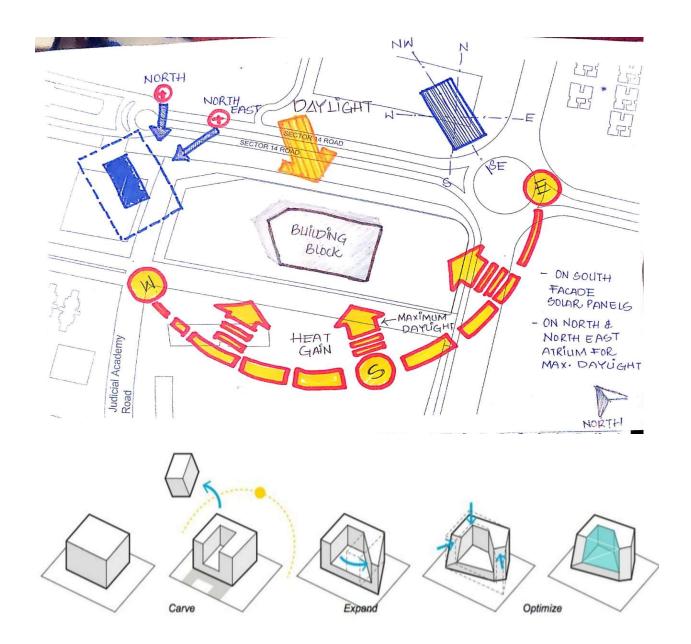


SOLAR RADIATION



PRECIPITATION

SUNPATH MOVEMENT



ORIENTATION OF BLOCK MODEL OF BUILDING

PROPOSED SOLUTIONS

Courtyard/Atrium is the best solution in composite climate. It excludes sun and trap wind.

Summer wind (+)

Sun Shading (+)

Evaporative Cooling (+)

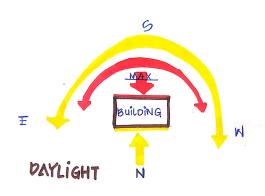
Winter wind (-)

The building's orientation is based on the path of the sun. The **atrium** bathes the building in northern daylight while the solar panels on the southern façade shield the workspaces from the sun.

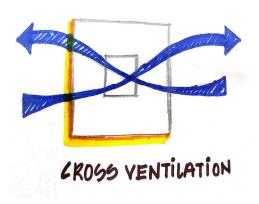
Louvers on the south facades are designed according to sun angles and provide additional shading for the spaces, reducing solar heat gain. The North facades are highly transparent and use thicker glass

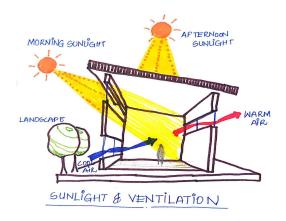
to dampen noise from the motorway.

The Atrium façade is totally transparent, allowing views out over the dyke, and steady north light in.

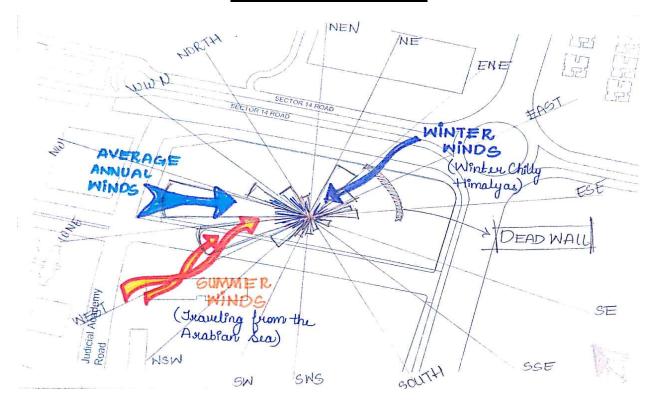








AIR MOVEMENT



EVAPORATIVE COOLING IN THE DIRECTION OF SUMMER WINDS

PROPOSED SOLUTIONS

In taller buildings, **STACK VENTILATION** can be used to draw fresh air through a building, and IN deeper building, atriums or courtyards can be introduced to allow light into the center of the floor plan.

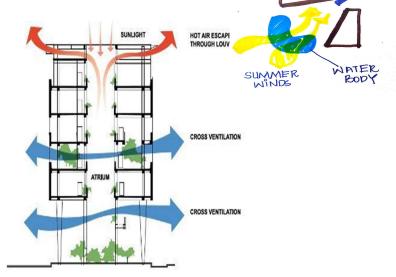
EARTH TUBES are often a viable and economical alternative or supplement to conventional central heating or air conditioning systems since there are no compressors, chemicals or burners and only blowers are required to move the air.

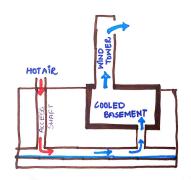
Light color coatings with high reflection.

Active Techniques which can be used are HVAC System.

SUMMER WINDS









Literature Study 1 - HYATT REGENCY, PUNE

INTRODUCTION

Hyatt Hotels Corporation, commonly known as Hyatt Hotels & Resorts, is an American multinational hospitality company headquartered in the Riverside Plaza area of Chicago that manages and franchises luxury and business hotels, resorts, and vacation properties. Hyatt Hotels & Resorts is one of the businesses managed by the Pritzker family. Hyatt has more than 1100 hotels and all-inclusive properties in 69 countries across six continents.

LOCATION



HYATT REGENCY, PUNE

Latitude: 18°33'36"N

Longitude: 73°54'43"E

PHILOSOPHY OF THE SPACE

The basic philosophy behind hospitality is ATITHI DEVO BHAVAH means prescribes a dynamic of the host—guest relationship, which embodies the traditional Indian Hindu-Buddhist philosophy of revering guests with same respect as god.

Offering warmth, comfort to people in an unfriendly place by providing them luxury accommodation through personalized services and a vast range of amenities.

HYATT REGENCY, PUNE

PROJECT DETAILS

Project name: HYATT REGENCY, PUNE

Location: 32/1-A&B, PUNE NAGAR ROAD, PUNE, INDIA

Project Type: **HOSPITALITY**

Client/Owner: Mr. R.K. JATIA

Year Completed: 2009

Architect: BILKEY LINAS DESIGN

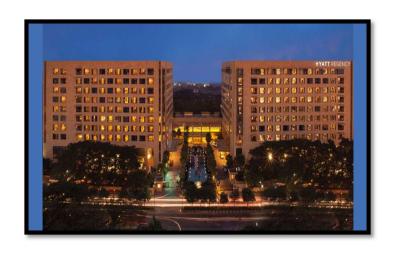
Landscape Architect: **JOEL BUREGA**

No. of floors: G + 9 (40 M)

Site Area: 15,224.11 SQ.M

Total Built Up Area: 55,574.6 SQ.M

Parking Area: 11,929 SQ.M



ACCESSIBILITY

Nearest Airport - Pune International Airport 2.5KM (7min)

Nearest Bus Stop - Wadgaon Sheri Phata 250m (3min)

Nearest Metro Station - Ramwadi Metro Station 290m (3min)

Nearest Railway Station - Pune Junction 6.9KM (15min)

LANDMARKS







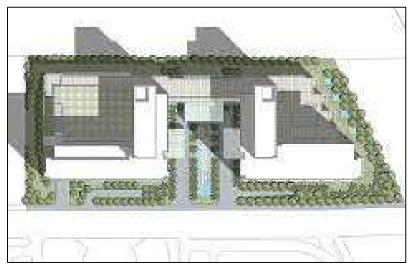
SITE PLAN

LEGEND

HOTEL BLOCK -

245 Bays (29,794 SQ.M)

<u>APPARTMENT BLOCK</u> –



227 BAYS (25,780 SQ.M)

BASEMENT AREA(2) -

18,533 SQ.M

PARKING AREA -

11,929 SQ.M

GROUND COVERAGE-

(46%) 7126.73 SQ.M

OPEN SPACE –

(10%) 1522.4 SQ.M

AMENITY SPACE –

(15%) 2283.6 SQ.M

NO.OF CAR PARKING –

353 CARS

FLOOR PLANS

LEGEND

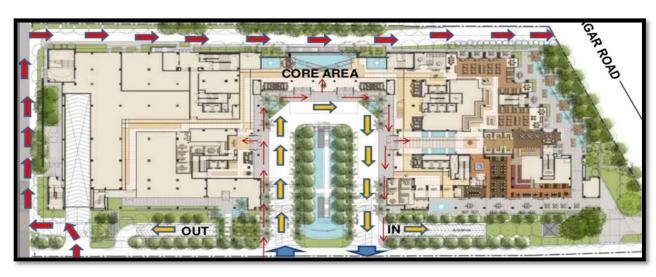
- 1. FRONT OFFICE DESK
- 2. WAITING AREA(LIFT LOBBY)
- 3. KITCHEN AREA
- 4. CAFÉ
- 5. RESTURANT
- 6. BAR





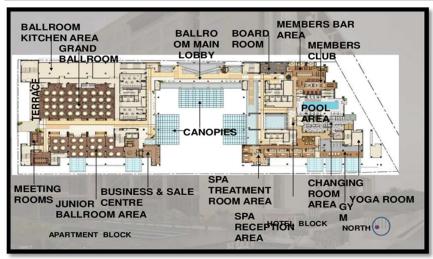












LEGEND

- 1. BALL ROOM
- BOARD ROOM
- 3. MEMBERS CLUB
- POOL AREA
- 5. YOGA ROOM
- CHANGING ROOM AREA
- SPA AREA
- 8. MEETINGS ROOMS
- KITCHEN AREA
- 10. BUSSINESS AND SALES CENTRE



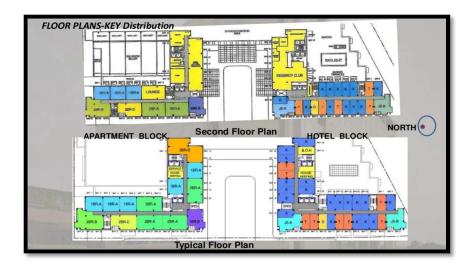
TWIN BED

DOUBLE BED

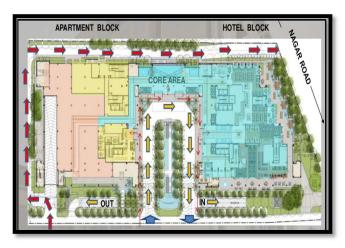
1 BEDROOM APPARTMENT

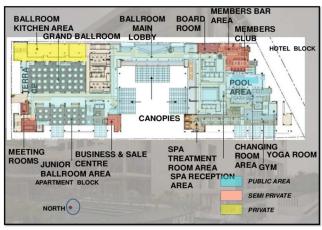
2 BEDROOM APPARTMENT

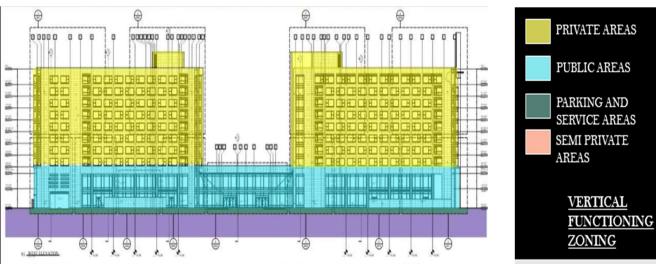
> 2 BEDROOM APPARTMENT

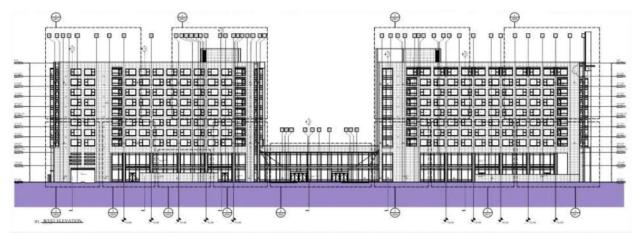


FUNCTIONAL ZONING

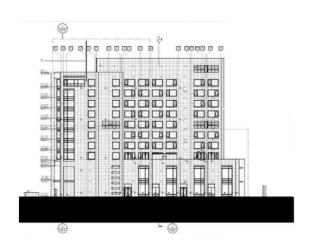


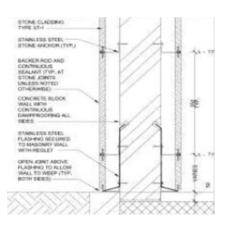






ELEVATIONS





MATERIAL USED











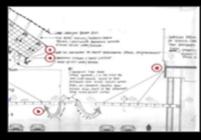


MERITS

- Proper circulation patterns.
- Adequate parking area.
- Proper segregations of spaces.
- Some attractive elements in the hotel.
- Proper light effects, proper use of materials.
- Simple yet attractive elevations.
- Planning done with proper context to urban spaces around.
- Building can stand at- temp variations,
 wind pressures, bomb blasts, earthquakes.
- Proper fire exits at each level and their circulation patterns.
- Landscape.
- Green boundary around which give a endless effect.
- Best suited views for each guest room.
- Best views from terraces.

SPECIAL FEATURE





- This canopy was one of the longest spanned canopies in Pune.
- It is supported at by steel rods and a hook specially designed.
- The rods were fixed to the exterior face of the building specially at a junction where 4 stones meet.

<u>Literature Study 2 - HOTEL VIVANTA B Y</u> <u>TAJ,WHITEFILED</u>

INTRODUCTION

Vivanta Bengaluru, Whitefield is a contemporary hotel that ushers global jet-setters into a dynamic lifestyle at the heart of India's technology capital. The hotel building is conceived as a 'Landscraper' a green-roofed promenade swoops up in a mathematically-inspired Möbius curve (infinite loop) and sweeps across the dynamic and inviting public spaces, blurring the distinction between architecture and landscape.

VIVANTA, inspired from "Bon Vivant," speaks of style, sophistication and refinement. The word symbolizes life and being alive. VIVANTA can be associated with vitality, all that is vivacious and vivid in character. Its identity is sophisticated, hand- crafted and contemporary.

LOCATION





HOTEL VIVANTA, WHITEFIELD

Latitude: 12°59'09"N Longitude: 77°44'13"E

LANDMARKS







HOTEL VIVANTA, WHITEFIELD

PROJECT DETAILS

Project name: HOTEL VIVANTA BY TAJ

Location: WHITEFIELD, BANGALORE,

KARNATAKA, INDIA

Project Type: **HOSPITALITY**

Client/Owner: THE INDIAN HOTELS

COMPANY LIMITED

Year Completed: 2009



Architect: WOW Architects

Area: 19368 m²

ACCESSIBILITY

Nearest Airport

Banglore International Airport

45KM (1 hr 10min)

Nearest Bus Stop

ITPL 64m (1min)

Nearest Metro Station

ITPL Metro Station 400m

(5 min)

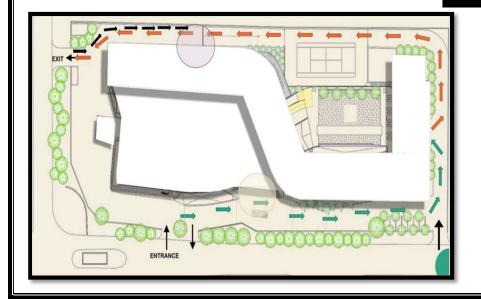
Nearest Railway Station

Krantivira Sangolli Rayanna

Railway Station (Bengaluru)

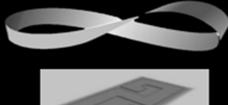
25.7KM (1hr 11 min)

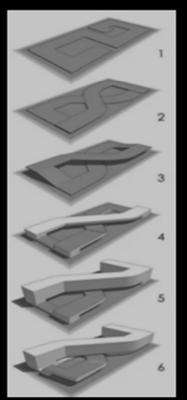
SITE PLAN



PHILOSOPHY OF THE SPACE

- Landscaper Over Skyscraper Mobius Strip
- Designed As A Flowing Landscrapper That Blends Earth To Sky
- Spaces Flow And Connect To Each Other Encouraging Exchange And Interaction.



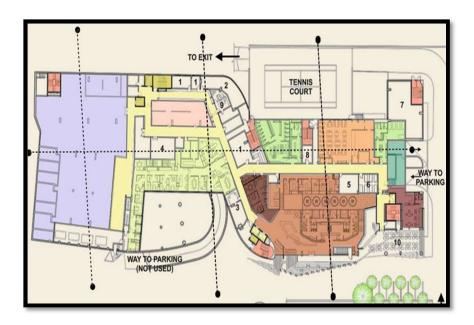


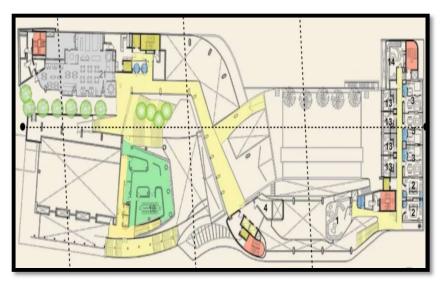
LEGEND

- 1. Indulgence Room
- 2. Charm/Delight Room
- 3. Deluxe Allure Suite
- 4. Lenin
- 5. Temptation Suite



- Tease Kitchen
 - Tease High Energy Zone
 - Tease Lawn Seating
- Circulation
- Toile
 - Service Stair/Lift





LEGEND

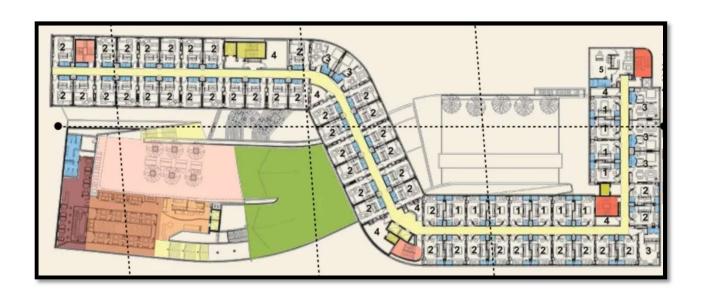
- 1. VIP Lounge
- Charm/Delight Room
- 3. Deluxe Allure Suite
- 4. Lenin
- 14. Loft Suite
- 15. Nirvana Presidential Suite
- Agenda (Business Centre)
- Fire Exit
- Terracotta (Restaurant)
- Circulation
- Toilet
- Service Stair/Lift

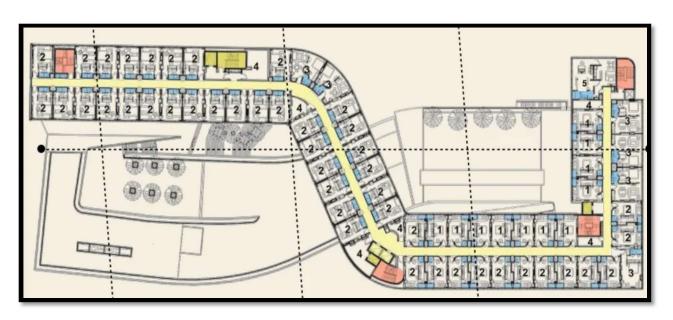
LEGEND

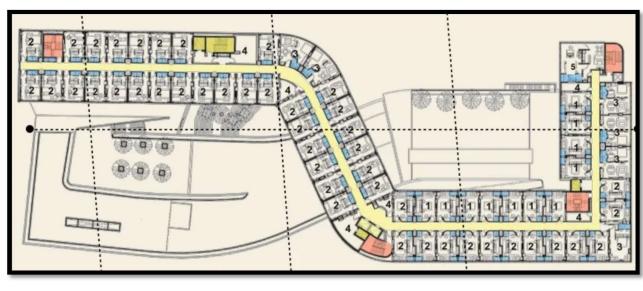
- 1. Lenin Room
- 2. House Keeping Office
- 3. IT Room
- 4. Liquor Store
- 5. Training Room
- 6. Bunker Room
- 7. STP
- 8. Electrical Panel Room
- 9. Staff Office
- 10. Caramel Outdoor Seating
- Carmel Pastry Shop
- Fire Exit
- Ladies/Gents Locker Room
- Circulation
 - Staff Cafe
- Spa
- HR Room Complex
- Executive Office Rooms
- Kitchen Support Store
- Service Stair/Lift
- Service Lifts/Stairs Services (Store +battery + AHU Unit+ HVAC + lv/Lt)
 - Swimming Pool Plant Room

LECEND

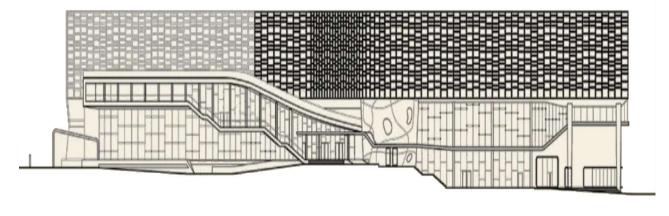
- Entrance Porch
- 2. Lobby
- 3. Business Centre
- 4. Banquet Entry Porch
- 5. Banquet Hall 1
- 6. Pre Function Area
- 7. Shop
- s. Gym
- Banquet Hall 2
- 10. Swimming Pool
- 11. Pool Lounge
- 12. Cascade
- 13. Loft Suite
- 14. Nirvana Presidential Suite
 - Time Room & Security
 - Loading & Unloading Area
- Bakery
- Main Kitchen
- Latitude(All Day Dinner)

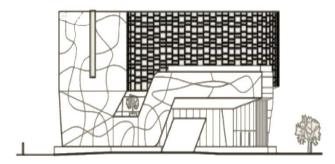






WEST ELEVATION

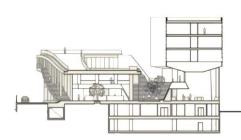




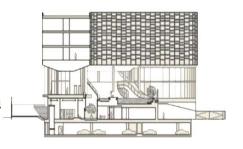
NORTH ELEVATION



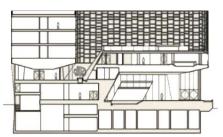
SOUTH ELEVATION



SECTION THROUGH LOBBY



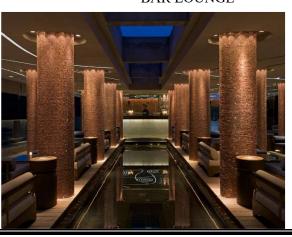
SECTION THROUGH POOL



SECTION THROUGH

BAR LOUNGE





MATERIAL

MATERIAL

- Workmanship defects embraced raw rustic look
- Bush-Hammer finish; enhancing or hide the texture of exposed concrete
- In places where conc. is inappropriate—stone or timber paneling
- Flux lines' embedded in concrete interior and exterior symbolize brand, avoid/conceal expansion joints
- All local materials to avoid carbon expenditure
- Ground plane becomes green roof
- Highly reflective glass with dark and light tinted ones save energy

SUSTAINABLE MEASURES

- Water Savings Initiatives 80% use of recycle water within hotel premises i.e. irrigation, Flushing and cooling towers
- Flow control device in Water taps for guest rooms.
- Touch less Sensor water taps in lockers
- Energy Savings Initiatives
- Motion Sensors in Public area toilets
- Timers On External Lighting
- -5 KW Solar Panel commissioned last year which supply fire exits lights for entire hotel.
- In process to replace 12 v, 50 w halogen with 7 watt LED in guest room.
- 40% LED's has already been fixed and rest will be done by March 2016.
- Water usage
 - Basement 3 tanks
 - Roof 7 tanks
 - 150L/C/D
 - 9 kitchens 1000L/hr
 - Total usage 48000 KL/day

LEISURE SERVICES

• 24-hour in-room dining

- Jiva spa
- On-demand video and music
- I-Radio
- Beauty salon
- Fitness centre
- Cycling
- Outdoor swimming pool
- Choice of music in-car CDs
- Fitness centre
- Yoga and Aerobics

PLANTS AND MACHINERY

- Screw Chillers 250Tr X 03 No's Kirloskar
- Dg Set's 750 Kva X 02 No's Cummins
- Transformers 1000 Kva X 02 No's
- Hot Water Boilers 2 Lacs K. Calories Per Hour
- 10 Kl Per Hour Ro Plant For Water Treatment
- Sewage Treatment Plant 200 Kl Per Day

SERVICES

- Linen Room which accommodates 4 rotations of clothes
- Support Kitchen Major Storage and preliminary cutting
- In house doctor doctor for one hour and on on-call
- Departments Dean Finance Sales Food and Beverage Learning and development Security Front office/ Reception
- LT/HT, HVAC in the huge machinery room in the basement.
- Fire exits
- Waste water treatment room

BUSINESS SERVICES

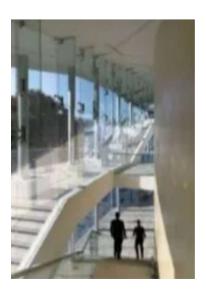
- Oval the 24-hour Business Centre
- High-speed internet access
- Wi-Fi access with printing

- Scanning services
- Online stock information
- Online world clock
- Online world weather
- Information kiosk in the Lobby
- Cellular phone in car with one-touch key for ASK services
- Facsimile Photocopying Secretarial services
- Laptops on hire
- Mobile phones; SIM cards on hire
- Portable printers on hire
- Translation/interpretation services
- Video-conferencing facilities
- Webcast facility
- Workstations Express check-in and check-out

WELLNESSAMENITIES

- Steam and sauna facilities
- Unisex Saloon
- Three Aromatherapy rooms
- Relaxation Lounge
- Outdoor Pool
- Gym





Case Study 1 – TAJ HOTEL & CONVENTION CENTRE, <u>AGRA, U.P</u>

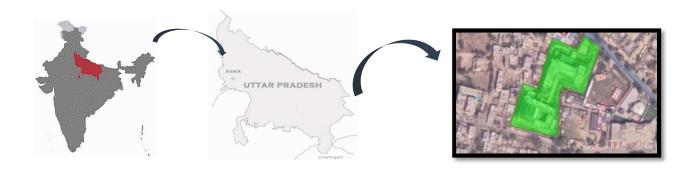
INTRODUCTION

Taj Hotels is a chain of luxury hotels and a subsidiary of the Indian Hotels Company Limited, Incorporated by the founder of the Tata Group, Jamstji Tata, in 1903.

The Taj Hotel & Convention Centre, lies a short walk away from the Eastern Gate of this fabled monument. This modern 5 star hotel near Taj Mahal reimagines all that Agra can be. The luxury hotel in Agra has 239 plush rooms including 12 lavish suites and one presidential suite to whisk guests away into a world of repose.

Spread on 4.5 acres of land

LOCATION



TAJ HOTEL AND CONVENTION CENTRE

<u>Latitude</u>: 27°09'47"N <u>Longitude</u>: 78°03'22"E

LANDMARKS







TAJ HOTEL AND CONVENTION CENTRE

PROJECT DETAILS

Project name: TAJ HOTEL

Location: AGRA

Project Type: **HOSPITALITY**



Year Completed:

Architect: A SHARMA ASSOCIATES

No. of floors: **G+4**

Site Area: 4.5ACRE

ACCESSIBILITY

Agra Airport 9.5 km

Agra Fort Train

Station 4.4Km

PHILOSOPHY OF THE SPACE





SITE ANALYSIS

GEOGRAPHICAL DESCRIPTION:

- Agra is geographically located at 27°12' North latitudes and 78°12' East longitudes.
- The city is situated on plain land with plenty of fertile mud.

TEMPERATURE:

- The climate of Agra city is extreme hot and tropical.
- Max. in Summer- up to 47°C Min.
- In winter- up to 3°C b.



- Humidity: Range of humidity- 32 to 78 % Max.
- Humidity occurs between July and August
- Rainfall: Annual rainfall averages: 700 750mm





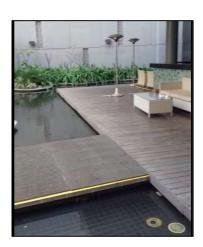
The property comprises of:

PHASE-1 (BLOCK-A).

- 150 Guest rooms with executive and presidential suites
- 5000-5500 Sq.ft. banquet hall with pre-function
- Hotel lobby with tea lounge
- Lobby Bar
- Three meal restaurant
- Specialty restaurant
- Executive lounge and Business centre
- Shopping arcade
- Spa and swimming pool

PHASE-2 (BLOCK-B).

- 100 Guest rooms with executive suites
- 12000-15000 Sq.ft. convention/banquet hall
- 9000 Sq.ft. Pre-function.
- Entrance lobby
- Meeting/party rooms
- Tree meal restaurant





- Cigar lounge
- Swimming pool & deck / pool bar etc.



FLOOR PLANS

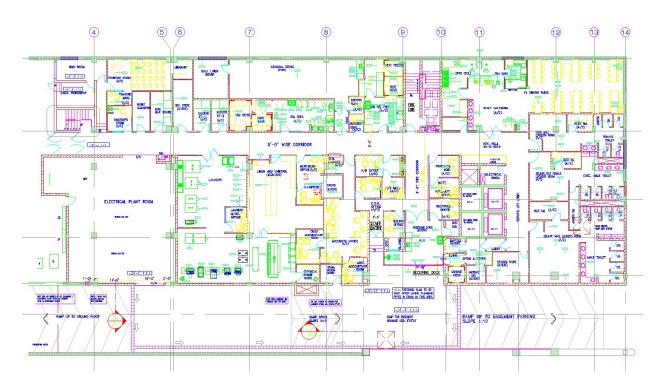
FORM:

- The 'modern look' means simplicity in form and design Modern architecture is created by clean lines, basic shapes, and forms. Thus, simple, plain, geometric forms, rectangular shapes, and linear elements make the characteristics of modern architecture.
- Pleasant colour scheme in facade in coordination with landscape.

VENTILATED FACADE:

- Dry tiles cladding is used with air gap to reduce heat gain.
- Installation of S.T.P to reuse sewage water for irrigation, flushing & cooling tower etc.
- Installation of rainwater recharge pit for water percolation.
- L.E.D lights are installed to reduce energy consumption.
- Solar panels & reversible heat pumps are installed as a renewable energy sources.
- Selection of toilet fixtures to attain efficient water consumption. Selection of glass to reduce heat gain and hence reduce energy consumption in HVAC.

• Fire and life safety measure in according with NBC & NFPA codes.











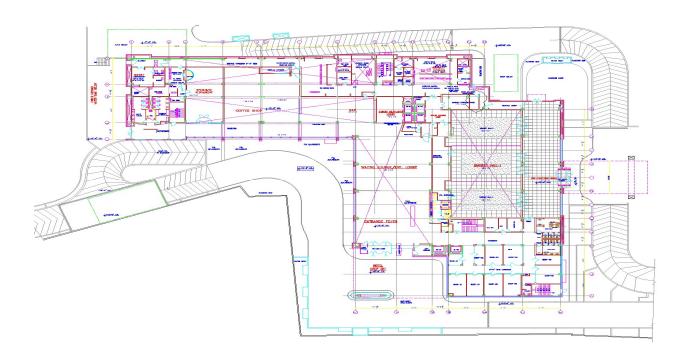
GROUND FLOOR PLAN

AREA CHART

Waiting lounge/

Ent lobby 5400 SQ.FT
Ent. waiting lobby 495 SQ.FT
Banquet hall 5400 SQ.FT
Banquet Kitchen 2150 SQ.FT
Pre Function Area 3125 SQ.FT

Bar 1250 SQ.FT
Coffee Shop 2480 SQ.FT
Dawat-e-Nawab 1488 SQ.FT
Coffee Shop Kitchen 2000 SQ.FT
Handicapped Toilet 46 SQ.FT
Corridor 1280 SQ.FT

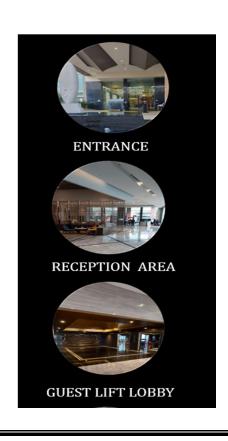




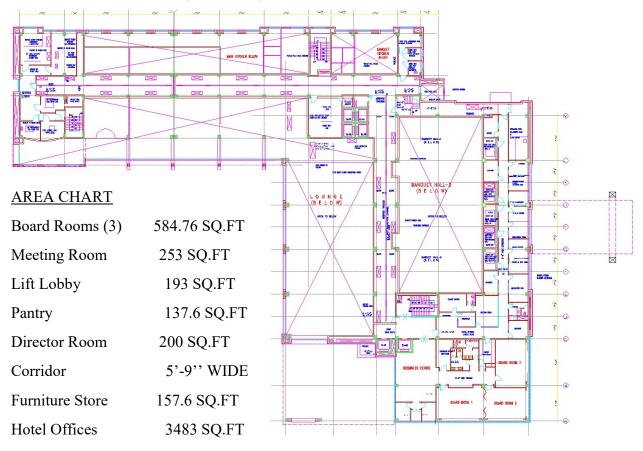








SERVICE FLOOR PLAN (BLOCK A)









FIRST FLOOR PLAN (BLOCK A)



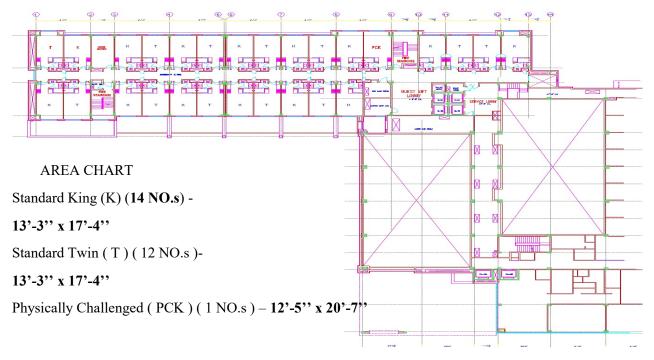




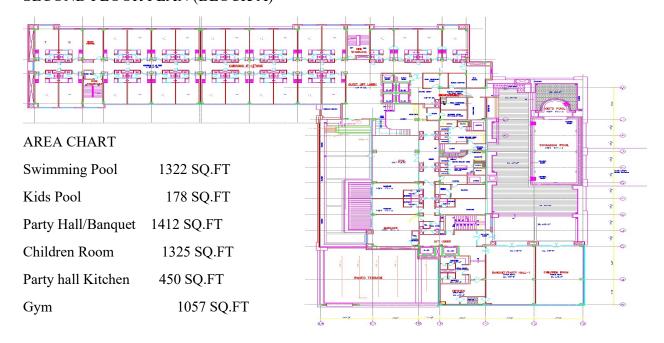








SECOND FLOOR PLAN (BLOCK A)



Furniture Store 157.6 SQ.FT

Hotel Offices 3483 SQ.FT

Massage 378 SQ.FT

Corridor 6'-1'' Wide

Paved Terrace slope 1:200





Standard King (K) (14 NO.s) -

13'-3" x 17'-4"

Standard Twin (T) (12 NO.s)-

13'-3" x 17'-4"

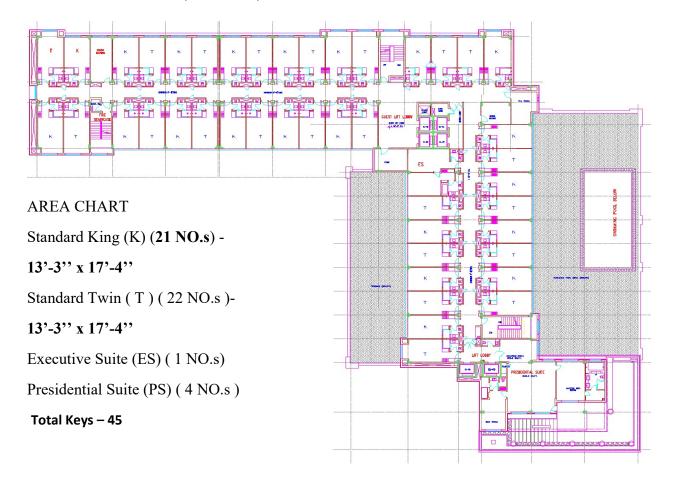
Total Keys – 27

Interconnecting - 02





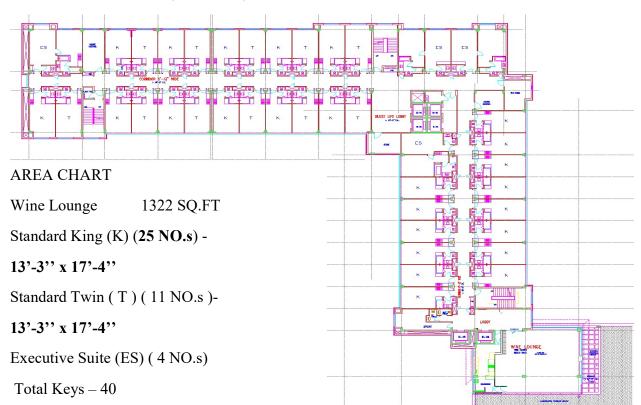
THIRD FLOOR PLAN (BLOCK A)



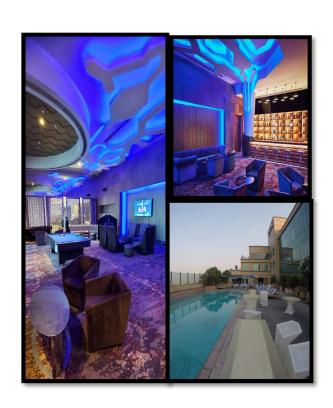
Interconnecting - 01

Interconnecting - 00

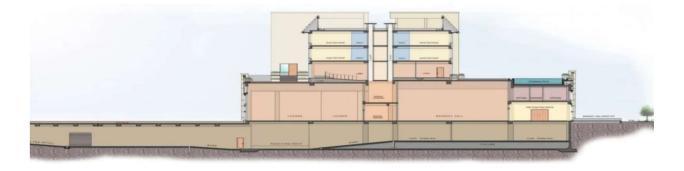
FORTH FLOOR PLAN (BLOCK A)\



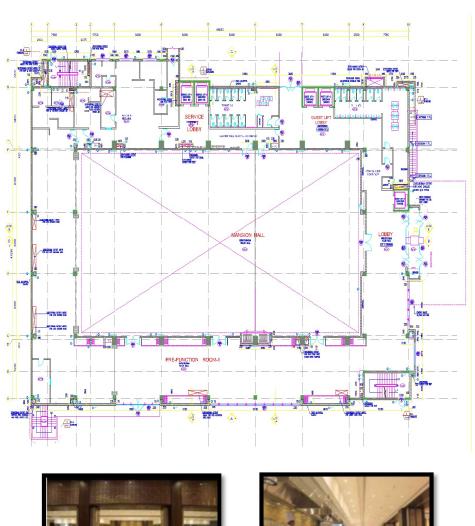
TAJ AGRA (OLD BLOCK)						
TYP. ROOM NET AREA 32.5 SQ.M.						
TY	P. ROOM GROSS AREA	37 SQ.M.				
S. NO.	FLOOR	AREA (IN SQ.M.)				
1	GROUND FLOOR	3962.50				
2	MEZZANINE FLOOR	882.50				
3	FIRST FLOOR	1537.00				
4	SECOND FLOOR	2679.50				
5	THIRD FLOOR	2491.50				
6	FOURTH FLOOR	2493.50				
7	BOH & MEP PLANT ROOM	1870.50				
	TOTAL GFA	15917.00				
	NO. OF BAYS	150				
	GFA PER BAY	106.11				



SECTION



GROUND FLOOR PLAN (BLOCK B)

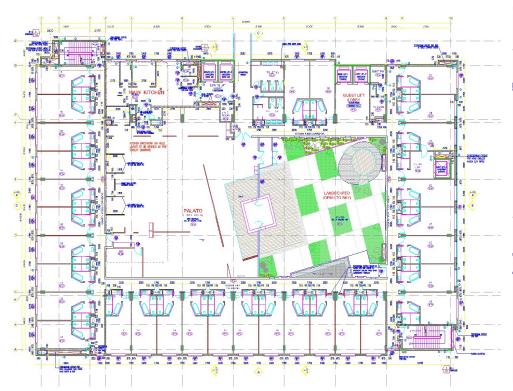






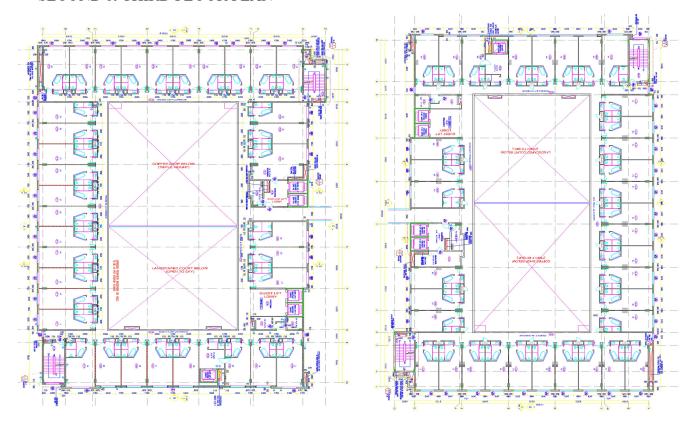


FIRST FLOOR PLAN





SECOND & THIRD FLOOR PLAN



TERRACE PLAN POOL DECK LVL (Block B)





SECTION



WATER SUPPLY & TREATMENT

• The Hotel Has Its Own Bore well And A Water Treatment Plant Both For Inlet Of Water And The Water Discharged.

- According To Govt. Of India, The Water Should Be Treated Before Being Discharged To The Sewer Line.
- The Hotel Has Its Own System Of Filteration, Chlorination And Purification.
- Hotel Has Its Own Ro Plant For Purification Of Water.
- The Stp Plant Is Located In Basement & Water Treatment Plant Is Clubbed With Boiler Plant And Fire Fighting Plant In Basement.

AIR CONDITIONING:

- The Whole Structure Is Centrally Air Conditioned.
- Fcu Are Provided To Each Room With A Separate Controller.
- Ac Plant Is Located On Basement.
- Total There Are 3 Chiller Plants.

KITCHEN:-

- There Are Total 5 Kitchen In The Hotel, 1 For Each, GBR Kitchen caters the Banquet hall 1, Mansion hall has its own kitchen.
- The Main Kitchen GBR Caters The Coffee Shop.
- There Are Various Sections In The Kitchen Like Poultry, Baking, Veg., Non-veg, Etc.
- The Cold Storages Are Seperate For Each Kitchen.
- There Is A Special Area In Basement Where All Expensive F & b Products Are Stored Like Dry Fruits, Wine, Chocolates Etc.

BOILER

- The Boiler Room Is Provided On Basement 2.
- At Hotel, Steam Boilers Are Used To Produce Steam For Heating Water Which Is Then Supplied To Various Areas.

PASSENGER LIFT:-

- Passenger Lift Of16 Passenger Capacity = 3
- Service Lifts Of 21 Passenger Capacity = 2
- Luggage Lift Of 12 Passenger Capacity= 1







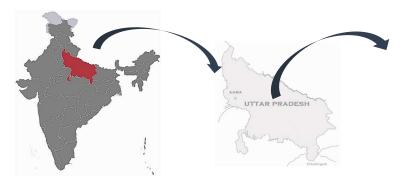
Case Study 2 – THE OBEROI AMARVILLAS, AGRA, U.P

INTRODUCTION

Spread across 9 acres of terraced gardens, pools, and pavilions. Though it was built from the ground up, the hotel's architecture and design is inspired by the Mughal heritage of Shah Jahan's dynasty, with intricate marble inlays, carved jali (screens commonly found in classical Indian architecture), colonnades, gold accents, and even fountains resembling the ones in front of the Taj Mahal.

Wall-to-wall windows ensure that every room—including the glassed-in shower—has a clear view of the Taj Mahal, while Indian antiques, artwork, and textiles lend a sense of place.

LOCATION





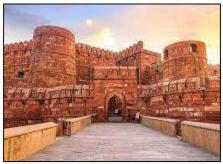
THE OBEROI, AMARVILLAS, AGRA

<u>Latitude</u>: 27°10'15"N

Longitude: 78°03'08"E

LANDMARKS







THE OBEROI, AMARVILLAS,

AGRA

PROJECT DETAILS

Project name: THE OBEROI,

AMARVILLAS

Location: AGRA

Project Type: **HOSPITALITY**

Year Completed:

Architect: **BENSLEY**

No. of floors: 3

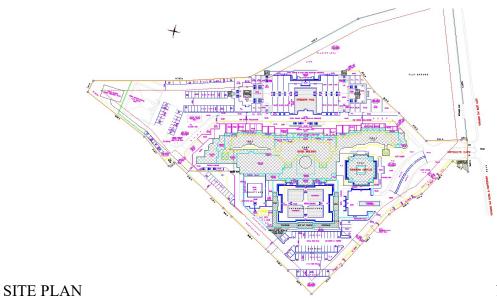
Site Area: **7.4 ACRE**

ACCESSIBILITY

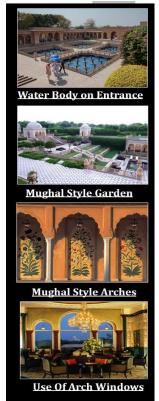
Agra Airport 9.5 km

Agra Fort Train Station 4.4Km

FLOOR PLANS



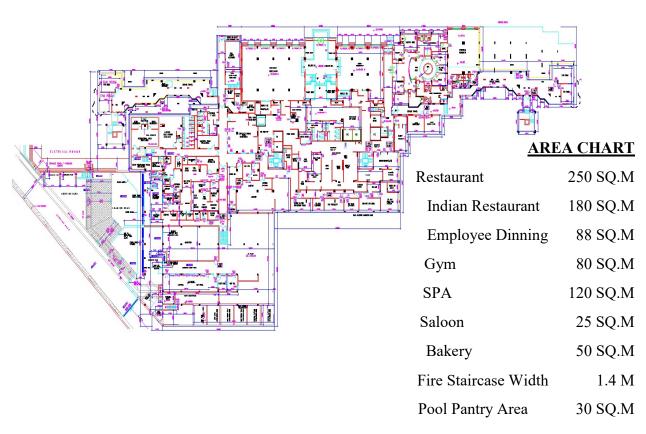




N

AREA STATEMENT						
FLOOR	F.A.R AREA	NON F.A.R	BUILT	GROUND		
FLOOR	F.A.R AREA	AREA	$\underline{\mathbf{UP}}$	COVERAGE		
Lower Basement		199	199			
Basement	4327.13	718.52	5045.65			
Ground Floor (Lobby lvl,						
${\bf Guest\ floor},{\bf shopping}\)$	4226.74	333.05	4559.79	4569.02		
First Floor (Guest Floor)	2053.8	1396.9	3450.7			
Second Floor (Guest Floor)	1751.96	160.07	1912.03			
Third Floor (Guest Floor)	1559.4	248.37	1807.77			
Fourth Floor (Guest Floor)	1304.78	135.56	1440.34			
Landscape Structure	1040.77	398.18	1438.95	624.67		
TOTAL	16264.58	3589.65	19854.23	5193.69		

UPPER BASEMENT PLAN



ZONING

ZONE I

Public Spaces

- Parking
- Lobby

- Reception
- Waiting Area
- Administrative Office
- Stairs / Elevators
- Corridors

ZONE II

Lodging Zone

- Bedrooms
- Luxry
- Deluxe
- Premium
- Kohinoor

ZONE III

Recreational Facilities

- Lawn
- Gym
- **Swimming Pool**
- **Outdoor Seating**

ZONE IV

Restaurants

- Banquets
- Bar
- Restaurant







WINDOW STYLE: ARCH







FLOORING PATTERN







TEA LOUNGE (FRENCH INFLUENCED)







LUXURY SUITE







MAIN ENTRANCE







POOL AREA







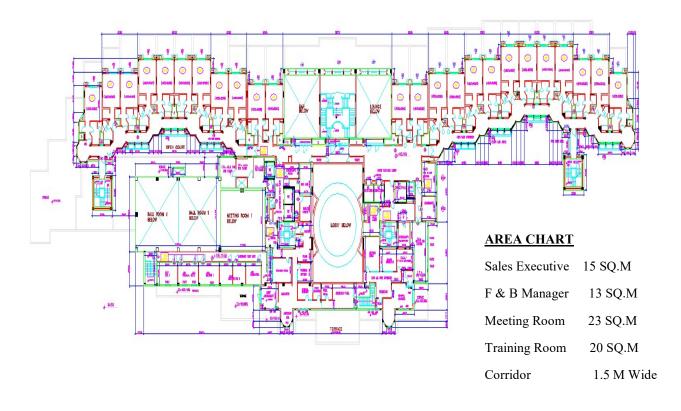


KOHINOOR SUITE

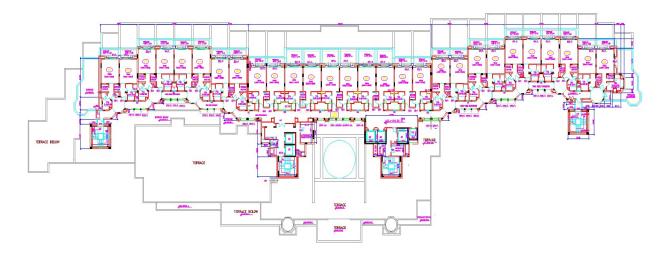
GROUND FLOOR PLAN



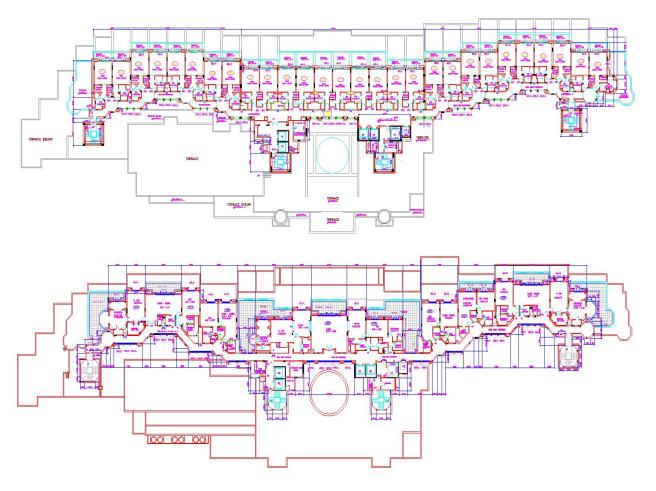
FIRST FLOOR PLAN



SECOND FLOOR PLAN

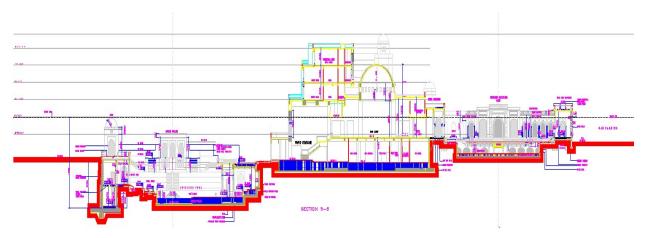


THIRD FLOOR PLAN



FOURTH FLOOR PLAN

SECTION



MATERIALS

ANALYSIS

- Mughal Architecture.
- Well planned space with utilization of each space. Well designed flooring patterns.
- Concept was also visible through the staff uniform. Large arched windows and carved wooden doors.
- Sandstone and marble stacked pillars.
- Central golden domed ceiling with crystal chandelier in the center.
- Wall to wall glass windows for better view & natural light.
- Décor was majorly classical with a combination of different similar styles and movements.

MATERIALS

- Teak wood
- Sandstone
- Carrera marbles
- Italian tiles
- Mughal theme inspired
 - Rugs,
 - Carpets ,

- Furniture,
- Upholsteries,
- Wallpapers
- Wood Framework,
- Metal Framework
- Mica,
- Veneers

STRENGTH

- Major tourist place
- Taj Mahal near it
- Fatehpur Sikri
- Located at Fatehabad road
 which is the major shopping area in Agra

WEAKNESSES

- Too expensive
- Many hotels are near around it

OPPORTUNITY

- Uniqueness
- Local and International tourism
- Cushion the local economy

THREATS

- Pandemic
- Slum area near it

FURNITURE STYLE: CLASSICAL/ART NOVEAU/ ECLECTIC



















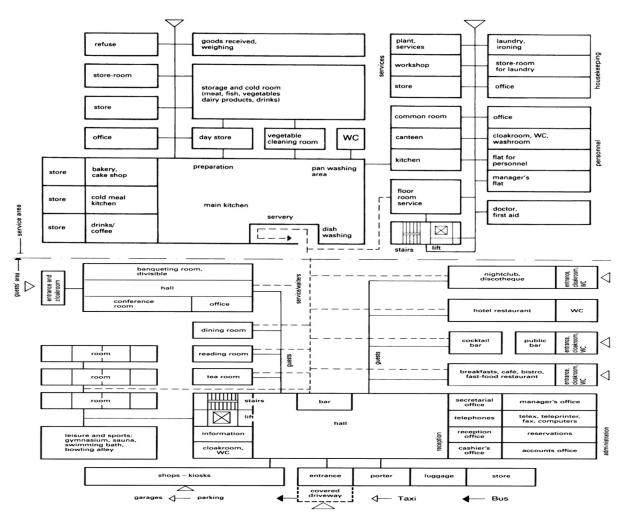
FURNITURE USED IN COMMON AREAS



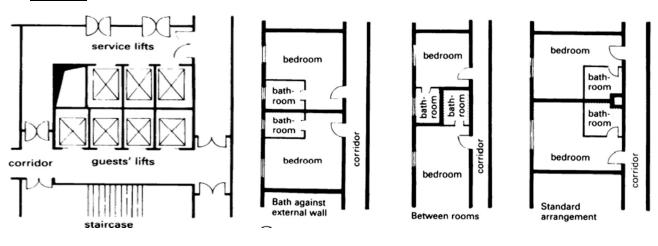
STANDARDS & SPACE REQUIREMENTS

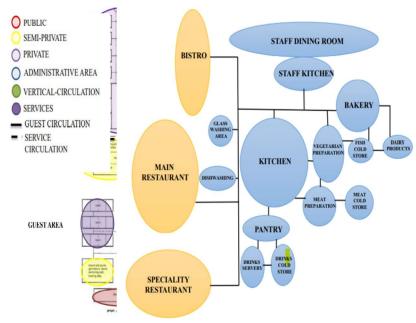
Accommodation facilities including room, toilets, bathroom, shower rooms etc., hallway and floor service should occupy 50%-60% of the floor area. Public guest rooms, reception area, hall and lounges require 4%-7%, and hospitality areas, restaurant and bars for guest and visitors 4%-8%.

A banqueting area with meeting and conference room needs 4%-12%, domestic areas, kitchen, personal rooms and stores 9%-14%, administration, management and secretarial 1%-2%, maintenance and repair 4%-7%, and leisure, sport, shops and a hairdressing saloon 2%-10%.



TYPICAL INTERRELATIONSHIPS BETWEEN ROOMS ON HOTEL GROUND FLOOR





TYPICAL INTERRELATIONSHIPS BETWEEN SPACES IN HOTEL KITCHEN SPACES

S.NO.	PRIVATE AREAS (GUEST)	TIME SAVER STANDARDS (METER SQUARE)	NEUFERTS (METER SQUARE PER ROOM)	NEUFERTS(FOR A 100ROOM HOTEL)
1	Single Bedroom	11.14	10.5	1050
2	Double Bedroom	14.86	12	1200
3	Deluxe Bedroom	18.58	17.5	1750
4	Suite Bedroom	24.15	22.5	2250
5	Steam room+Spa			150
6	Lounge+Bar	74.32	0.4	40
7	Washroom	36 per person	0.3	30
8	Lobby+Reception	102.19	0.4	40
9	Resturants	139.35	0.6	60
10	Shops+ Retail Store		1.1	110
11	Cloak Room	14.86	0.5	50
12	Banquet	217.39	1.3	130
13	Receational Areas		51.7	5170
14	Administration office	52.95	0.4	40
15	Accounts office	13.93	0.2	20
16	Technical room	171.87	1.8	180
17	Bedrooms		0.9	90
18	Laundry + Storage	66.89	0.7	70
19	Kitchen + Storage	118.91	2.5	250
20	Control Room		0.3	30
21	Waste Disposal	7.43	0.2	20
22	Lockers + Washroom		0.2	20
23	Pantry		0.4	40

AREA REQUIREMENT OF VARY ZONES

RESTAURANT/CATERING

Care should be exercised while sizing restaurants on the basis of people per square metre since circulation requirement and table layout etc, vary considerably. The following table gives some basic guidelines.

hotel size (rooms)	coffee shop, café ^{a)} , brasserie (seats)	main or speciality restaurant (seats)	ethnic or gourmet restaurant (seats)
50	50-75	_	_
150	80	60	_
250	100	60	50
space provision/ seat ^{b)}	1.6 m ²	2.0 m ²	2.0 m ²

a) excluding poolside, café-bar and other club facilities; area also usable for breakfast meals with buffet or table service

COMPARATIVE ANALYSIS

		COMPARTIVE AN	ALYSIS		
REQUIREMENT	LITERATURE STUDY 1	LITERATURE STUDY 2	CASE STUDY 1	CASE STUDY 2	STANDARD
		COMMERCIAL A	REAS		
Restaurant	500sq.m	485sq.m	550 sq.m	437.6sq.m	139 sq.m
Lounge	200 sq.m	160sq.m	250sq.m	100 sq m	55.74sq.m
Entrance Foyer	180sq.m	230sq.m	250sq.m	220 sq.m	102 sq.m
Shopping Arcade	_	_	230 sq.m	463 sq.m	
Bar	135sq.m	316sq.m	116 sq.m	100 sq m	18 sq.m
Rooms					
	King Size Bed 36 sq.m	Superior Charm 36 sq.m	Standard king 32 sq.m	Premier Room 42 sq.m	
	Queen Size 32sq.m	Deluxe Delight - 36 sq.m	Standard twin 32 sq.m	Premier Room with balcony65 sq.m	
	Double Bed 28 sq.m	Premium Indulgence 46 sq.m	Excecutive suite 46 sq.m	Deluxe Suite 85 sq.m	
	1 Bedroom Apartment 85 sq.m	Deluxe Allure suite 56 sq.m	Presidential suite 150sq.m	Deluxe Suite with balcony85 sq.m	
	2 Bedroom Apartment 105 sq.m	Temptation suite 76 sq.m	Phy. Challenged 42sq.m	Luxury Suite 175 sq.m	
		Loft suite 91 sq.m		Kohinoor Suite 275 sq.m	
		RECREATIONAL	AREAS		
Banquet	455 sq.m	513 sq.m	1784 sq.m	245 sq.m	217 sq.m
Pool Area	250 sq.m	260 sq.m	360 sq.m	285 sq.m	
SPA	95sq.m	51 sq.m	100 sq.m	120sq.m	36 sq.m
Saloon	_	_	58 sq.m		•
Gym	85sq.m	160 sq.m	100 sq.m	80 sq.m	

b) the area required per seat, dictated mainly by size and spacing of furniture, proportion of tables seating two persons and arrangements for food service (buffet, table service, etc.)

INFERENCES

LITERATURE STUDY 1

POSITIVE ASPECTS-

- Restaurant has open spaces for dining.
- Rooms was fitted with AI technology.
- Gym was fully equipped with 24 hrs opening facility.
- Banquet area was spacious and well planned.
- Atrium was well planned and lighting was ineffable

LITERATURE STUDY 2

POSITIVE ASPECTS-

- Out door seating placement was very well planned.
- Entrance foyer was double heighted with a circular shaped chandelier. Restaurant has very unique ceiling with hanging bulbs and glass structures.
- Bar area was innovative, as well as lighting was ineffable.
- Maximum use of wood work.
- Extensive use of glass work

CASE STUDY 1- TAJ HOTEL & CONVENTION CENTRE

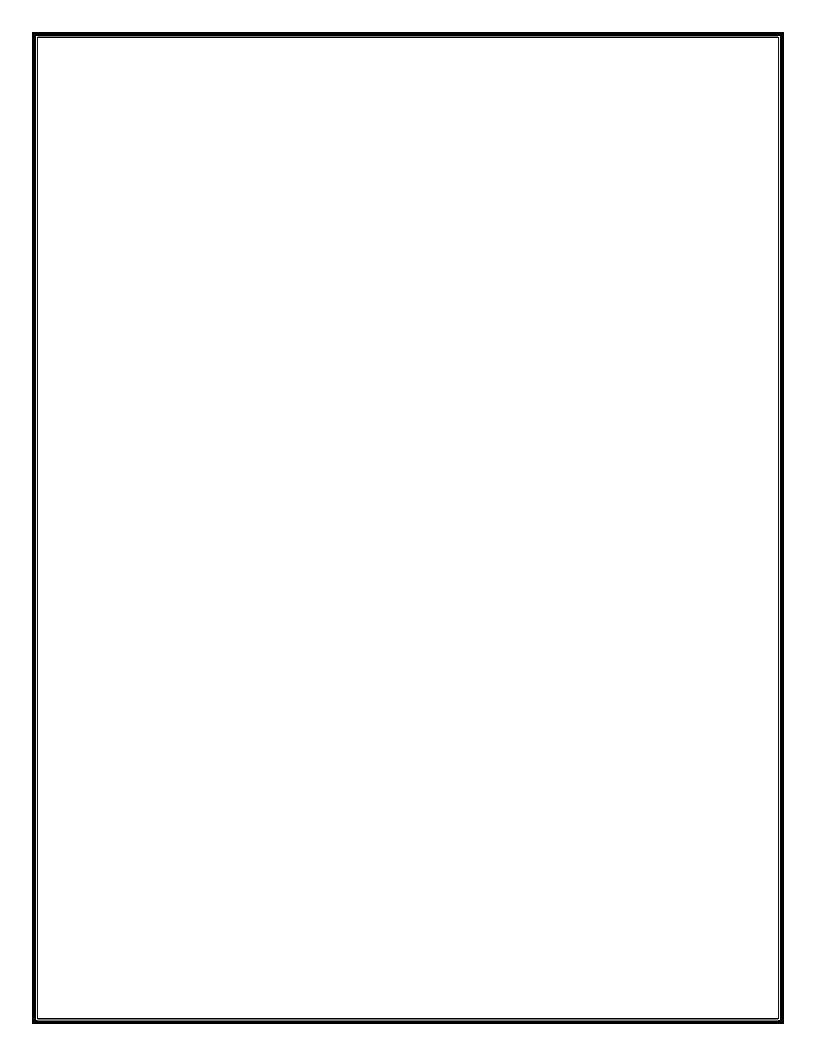
POSITIVE ASPECTS-

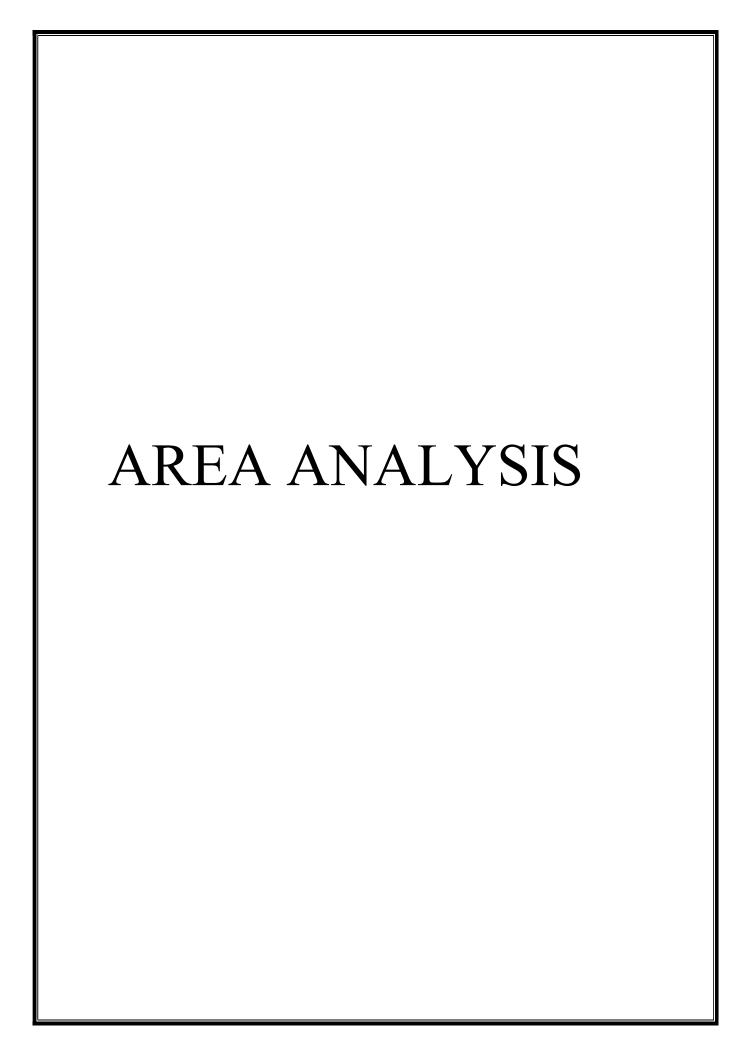
- Entrance lobby has fountain and small pond on both left and right side.
- Double heighted ceiling with chandelier.
- Bar has unique and pattern fixture of wooden louvers.
- Lounge, Bar, Restaurant areas are adjacently planned.
- Banquet hall was elegant as well as aesthetically pleasing with soft colors, and warm lighting.
- 6Restaurant ceiling was made of wooden louvers.
- Rooms have tiles, marbles, as well as wooden flooring

CASE STUDY 2 – THE OBEROI AMARVILLAS

OSITIVE ASPECTS-

- Entrance foyer was well designed as well as spaces are fully functional.
- It contains a dome structure with a chandelier which creates a perfect balance and looks aesthetically pleasing as well.
- Mughal theme based furniture, rugs, carpets were used.
- Tea lounge furniture was French style influenced
- Bar area furniture was of ottoman style.
- Use of metal frame work.
- View of TAJ MAHAL can be seen from all the rooms.
- Mostly material teak wood, sandstone, marble, wallpapers, were used.
- Pool area was well developed
- Lighting creates perfect ambience in atmosphere which gives royal and luxurious look to whole hotel.



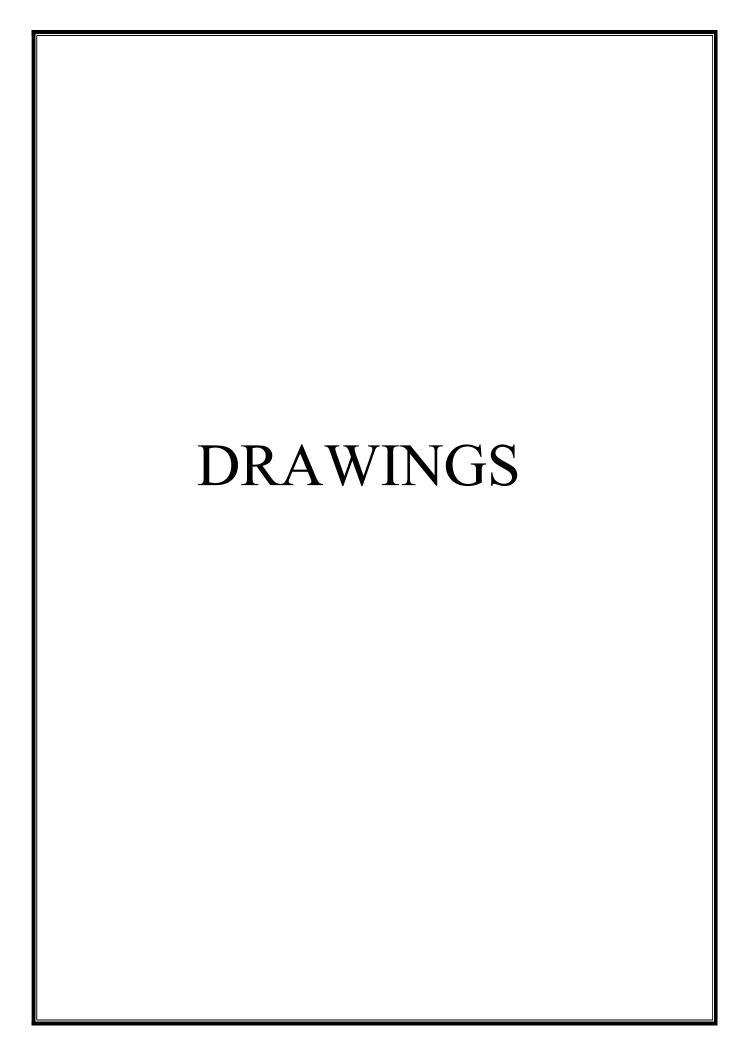


	COMPLETE AREA ANALYSIS					
No.	FUNCTIONAL SPACE	STANDARDS M²/PERSON	OCCUPANCY	PROPOSED AREA		
		HOTEL				
1	ENTRANCE FOYER	0.65		200		
	AIR LOCK LOBBY			20		
	RECEPTION AREA			40		
	FRONT OFFICE			40		
	WAITING AREA	1		75		
	CLOCKROOM	0.1		20		
	TOILET					
	TOTA	L		395		
2	LOBBY					
	COFFEE SHOP	1.6	80-100	250		
	TOTA	L		250		
3	ADMIN AREAS					
	DIRECTOR ROOM			30		
	MEETING ROOM			25		
	ACCOUNTS OFFICE	5M²/PERSON				
	SENIOR ACCOUNTANT			15		
	JUNIOR ACCOUNTANT			10		
	GEN. CASHIER			10		
	HR OFFICE					
	HR MANAGER			12		
	HR EXECUTIVE			15		
	GM OFFICE					
	GM CABIN	25		15		
	MEETING ROOM	1.5		25		
	SALES OFFICE			12		
	SALES MANAGER			10		
	F & B OFFICE			12		
	RESERVATION			24		
	F & B MANAGER			10		
	TOTA	L		225		
4	BAR	2.5	50-75	200		
	TOTA	L		200		
5	BANQUET HALL(2)	1.3M²/SEAT	250	700		
	PRE-FUNCTION AREA	20% OF B.A		120		
	STORAGE	10% OF B.A		60		
	KITCHEN	0.2		50		

	TOILET	MALE: WC 2/20 (1.2M²) 1/15 U (0.63M²) 1/100 WB (0.92M²) 1/WC 150 PERSON FEMALE: WC 1/12(1.2M²) 1/100 WB (0.92M²) 1/WC 100 PERSON	WC: 15 U:10 WB: 15 WC: 9 WB: 9	60
	TOTA	AL .		1010
6	RESTAURANT(1)	2	75	200
	KITCHEN	10%		20
	PANTRY	0.1		10
	TOTA	AL .		230
7	SPCLTY REST. (1)	2	50	200
	KITCHEN	10%		20
	PANTRY			15
	TOTA	AL		235
8	SERVICES			
	LOADING/UNLOADING			200
	DECK			
	FOOD CONTROL OFFICE			12
	SECURITY OFFICE		<u> </u>	10
	RECEIVING OFFICE			9
	PURCHASE OFFICE			9
	STORE			100
	GENERAL STORE	0.02.0.04		180
	COLD STORAGE/FREEZER	0.03-0.04	<u> </u>	60
	VEGETABLE + PREP.	0.03-0.04		40
	DIARY	0.05-0.06	 	8
	MEAT/FISH + PREP DRY STORAGE/FREEZER	0.03-0.04	<u> </u>	25
	WINE CELLER	0.12-014	 	30 15
	BEVERAGE		+	15
	LAUNDRY	0.3	+	120
	STORAGE FOR CHEM.		1	5
	LAUNDRY MANG.			9
	LINEN STORE		 	100
	MANAGER ROOM			15
	UNIFORM ROOM			50
	PLANT ROOMS		-	30
\vdash	1	••	1	
	UPS ROOM			15

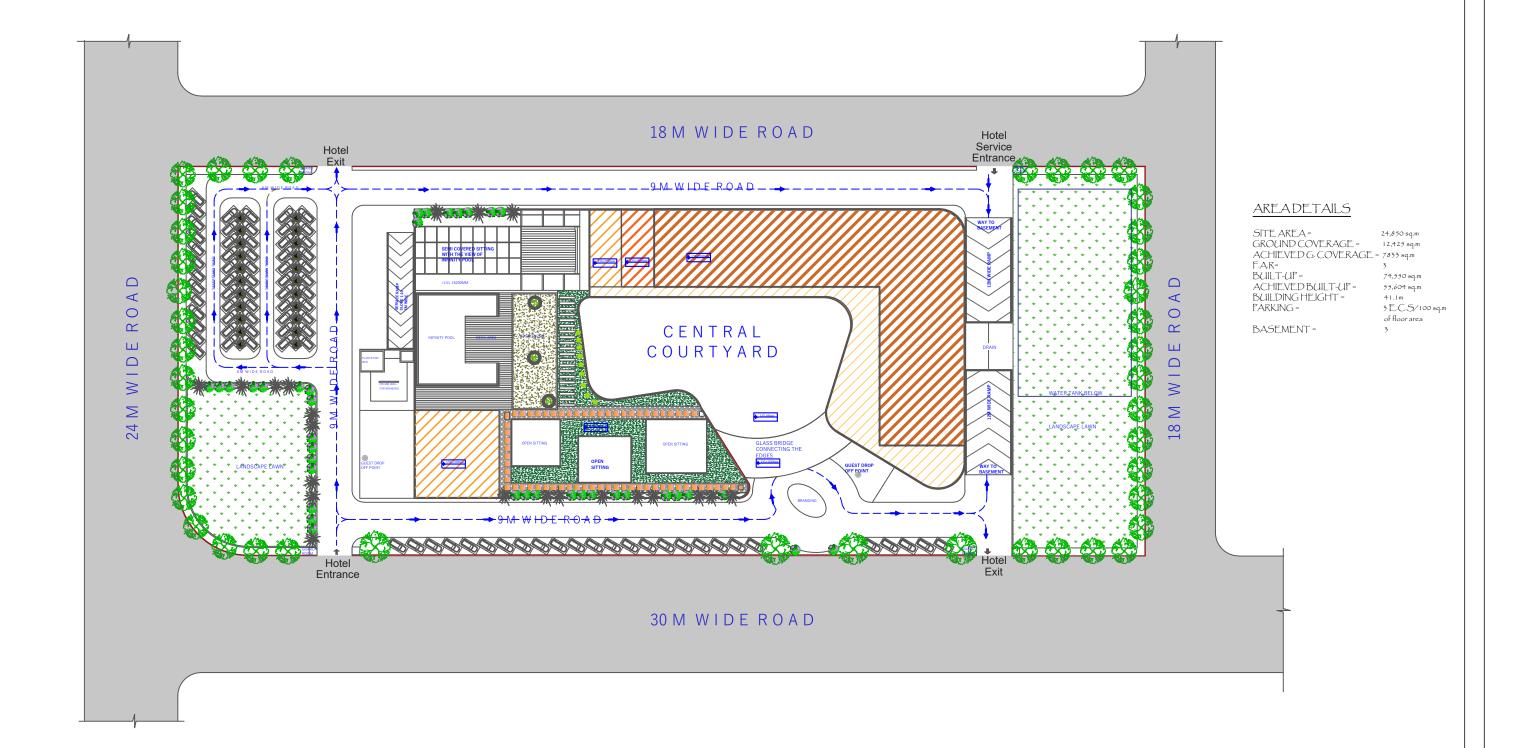
	DG ROOM			150
	CHILLER ROOM			150
	BOILER ROOM	.42/ROOM		200
	W.T.P	,		
	PUMP ROOM			
	A.H.U			35
	CABLE ROOM			35
	CARPENTRY WORKSHOP			60
	DOCTOR OFFICE			10
	TOTA	\L		1807
9	STAFF AREAS			
	DINNING + KITCHEN			150
	CHANGING + LOCKER+			200
	TOILET			200
	TOTA	\L		350
10	SWIMMING POOL	4M²/PERSON	100-150	600
	PRE BATHING AREA			30
	POOL BAR			40
	LIVE KITCHEN			60
	STORE			22
	TOILET + CHANGING RM			80
	TOTA	L		832
11	SPA			
	SAUNA			
	STEAM BATH			
	CHANGING + LOCKER			
	TOTA	\L		120
	GYM			200
13	MOTHER KITCHEN	1.3		
	VEG PREPERATION	0.05-0.08		100
	MEAT PREPERATION	0.04-0.07		50
	HOT MEALS	0.19-0.24		200
	COLD MEALS COOKING AREA	0.09-0.12		50
	DISHWASHER	0.00.0.11	+	200 50
	BAKERY	0.09-0.11	+	50
	PREPERATION		+	40
	FREEZER		+	40 15
	OVEN ROOM		+	20
	CONFECTIONERY			25
	TOTA	\L		750
14	SALOON			65
	MASSAGE PARLOUR			120
	ROOMS			
	DELUXE ROOM	30(60)		1800
	PREMIUM ROOM	35(70)	1	2450

BUSSINESS ROOM	40(50)	2000
PREMIUM SUIT	45(50)	2250
PRESIDENTIAL SUITE	55(20)	1100
TOTAL ROO	M = 250	9600
TOILET		



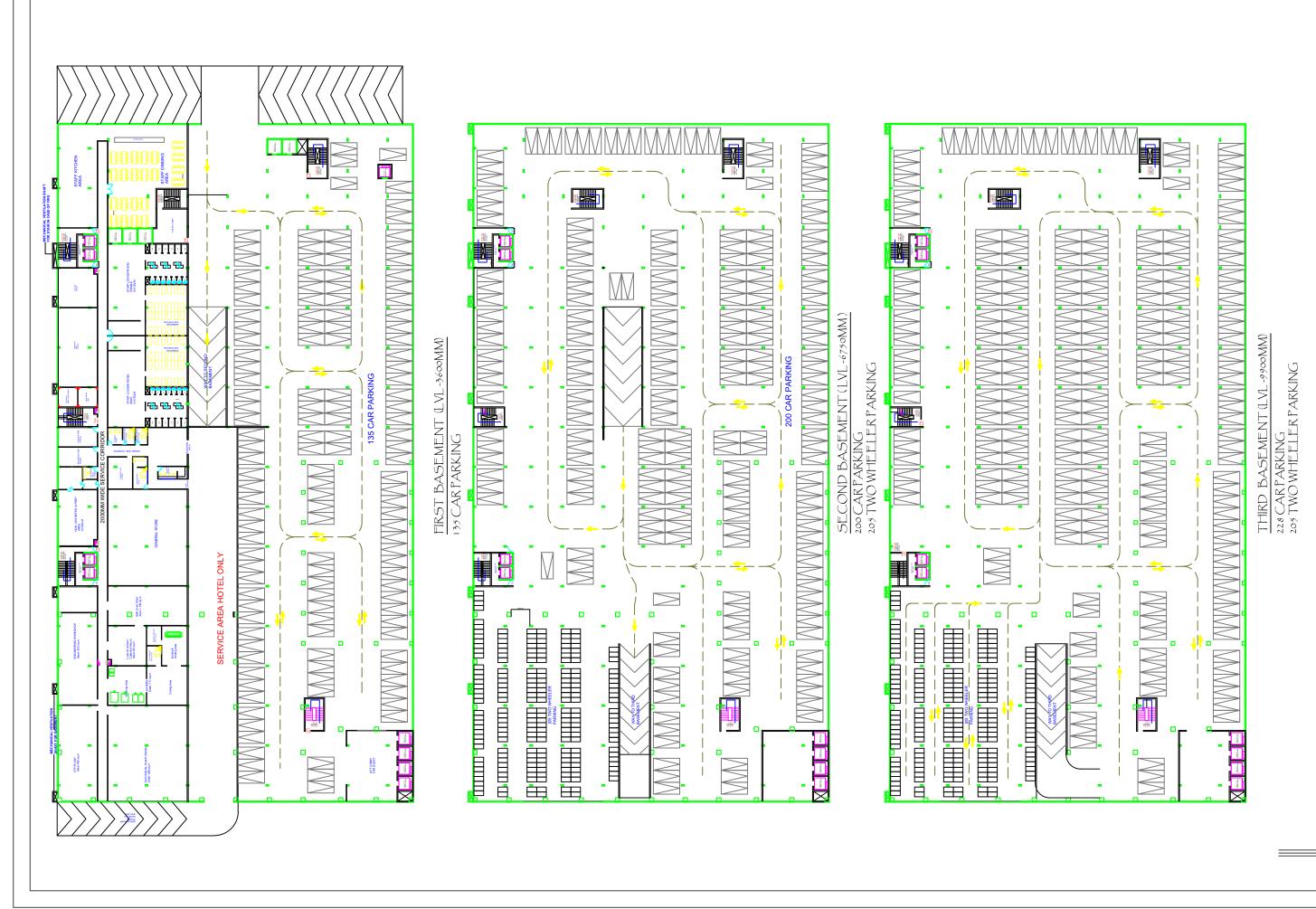






Scale:not to scale

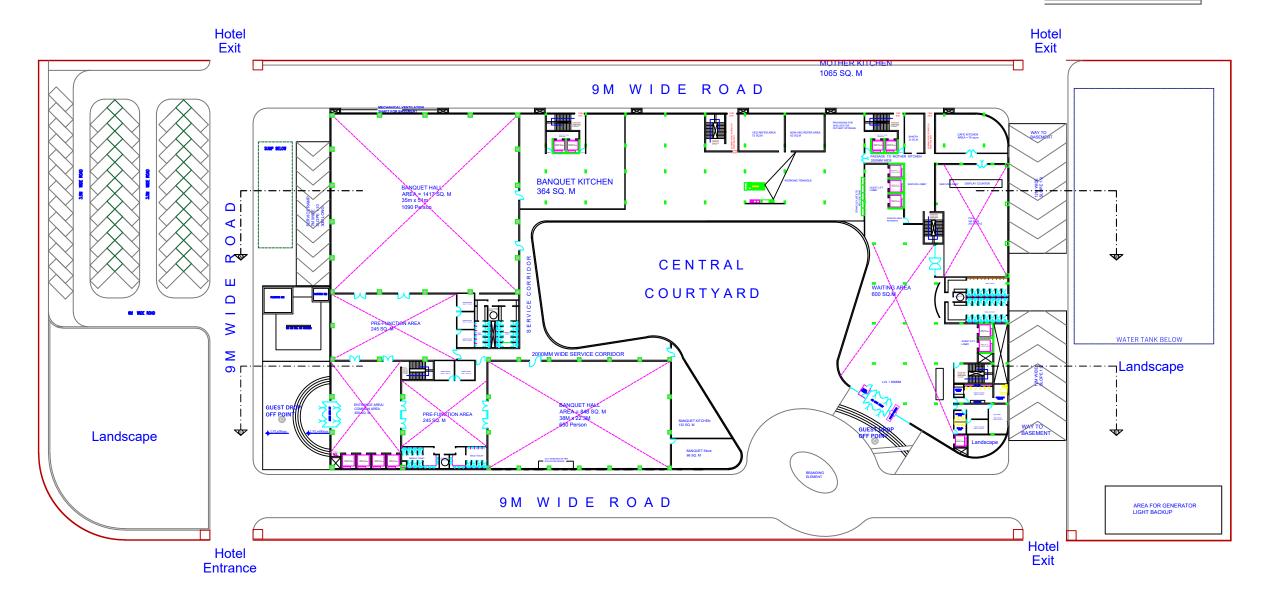
Vanshita Vyas 1170101030 B.Arch 5th yr (2021-22) B.B.D University





FLOORPLANS GROUND FLOOR PLAN





ENTRANCE LOBBY/

WAITINGAREA = 600 SQ.M CAFE = 340(200p)

CAFEKITCHEN = 70 SQ.M MOTHER KITCHEN = 1065sq.m

BANQUETHALLI =848sq.m(650p)

38m x 22.3 m PRE-FUNCTION = 245 sq.m

B.KITCHEN 1 = 132m COMMON/ENTRANCE AREA

= 300 SQ:M BANQUET HALL 2 = 1417SQ.M

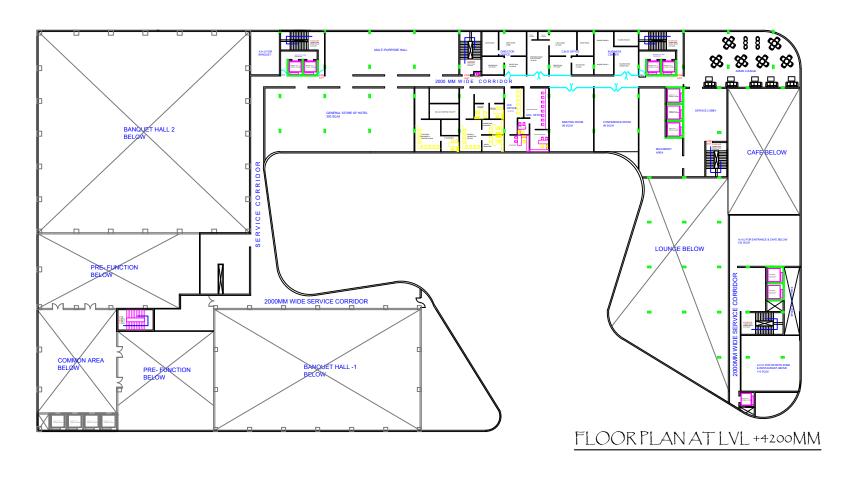
(1090P) PREFUNCTION = 245 SQ:M

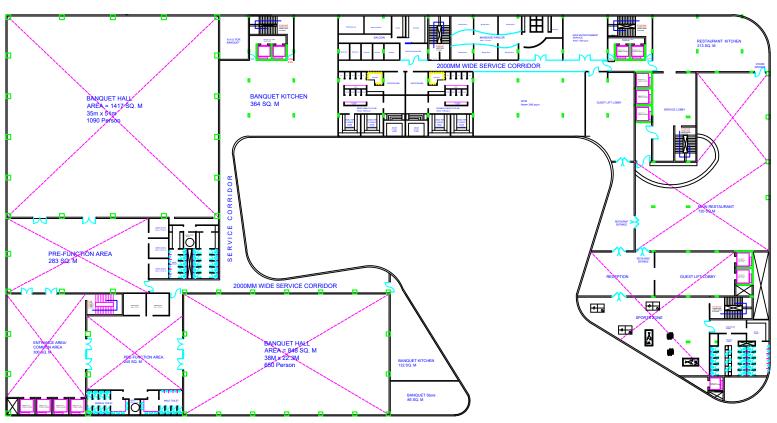
B. KITCHEN 2 = 364sq.m

Vanshita Vyas 1170101030 B. Arch 5th yr (2021-22) B.B.D University

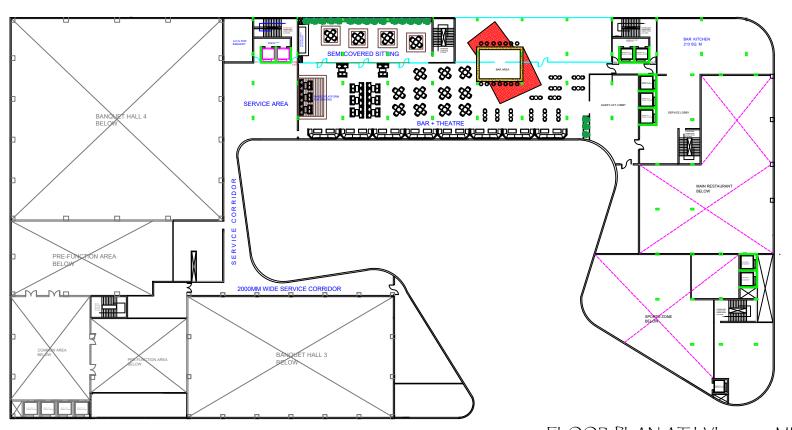


CONVENTION HOTEL, DWARKA, DELHI





FIRST FLOOR PLAN AT LVL+8100MM



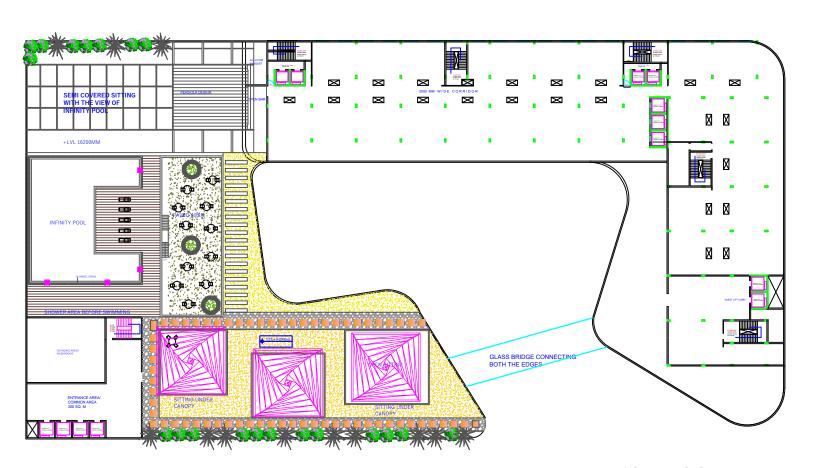
FLOOR PLAN AT LVL+15900MM

Scale:-

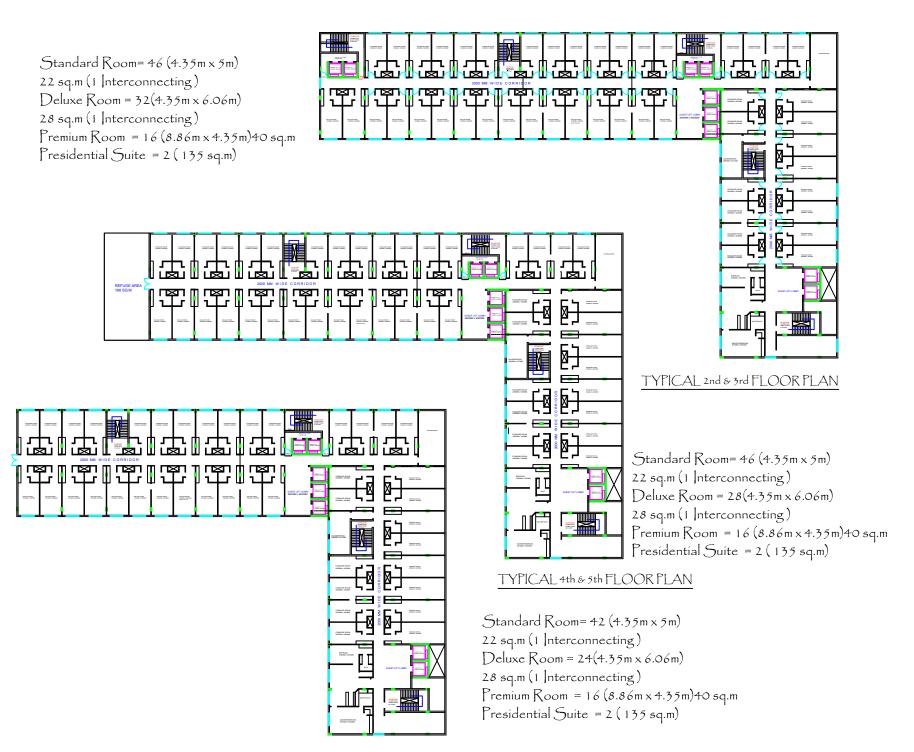
CONVENTION HOTEL, DWARKA,
DEI HI



Vanshita Vyas 1170101030 B.Arch 5th yr (2021-22) B.B.D. University



SERVICE FLOOR AT LVL+11700MM



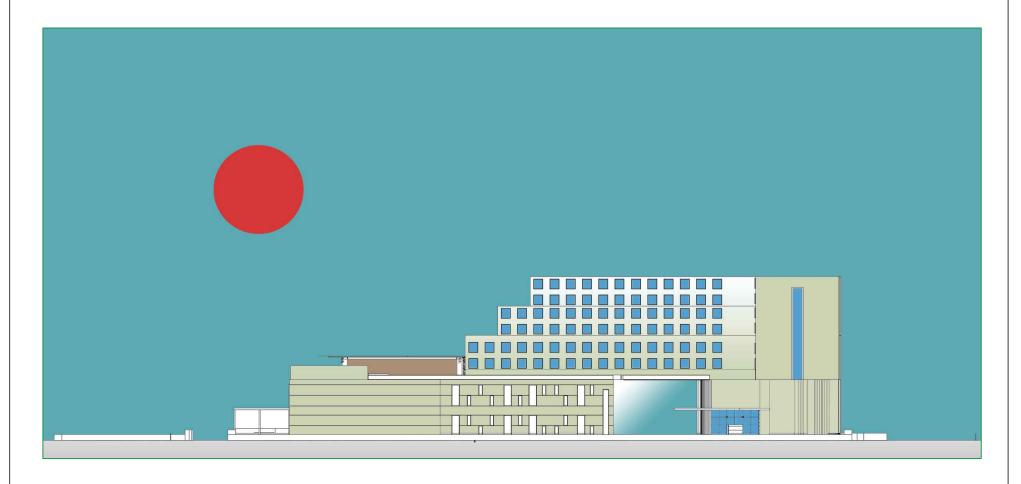
TYPICAL 6th & 7th FLOOR PLAN



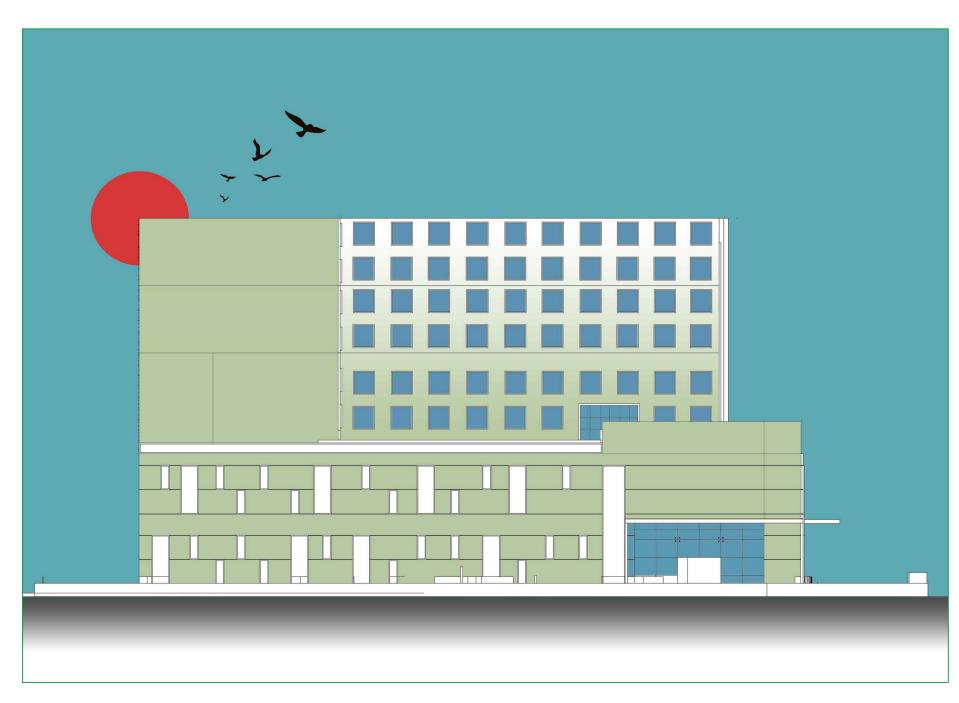




Vanshita Vyas 1170101030 B.Arch 5th yr (2021-22) B.B.D. University



FRONT ELEVATION



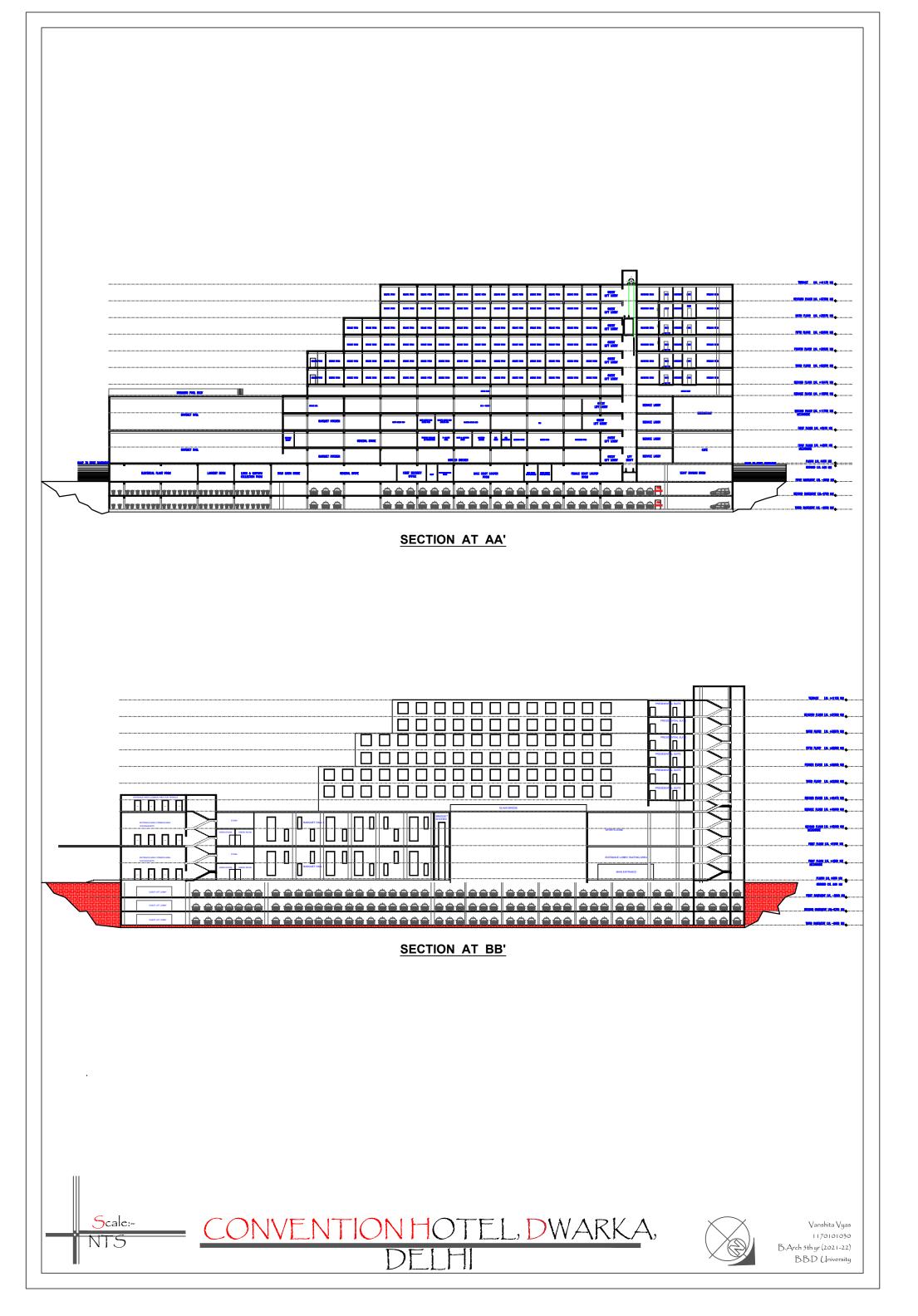
SIDE ELEVATION

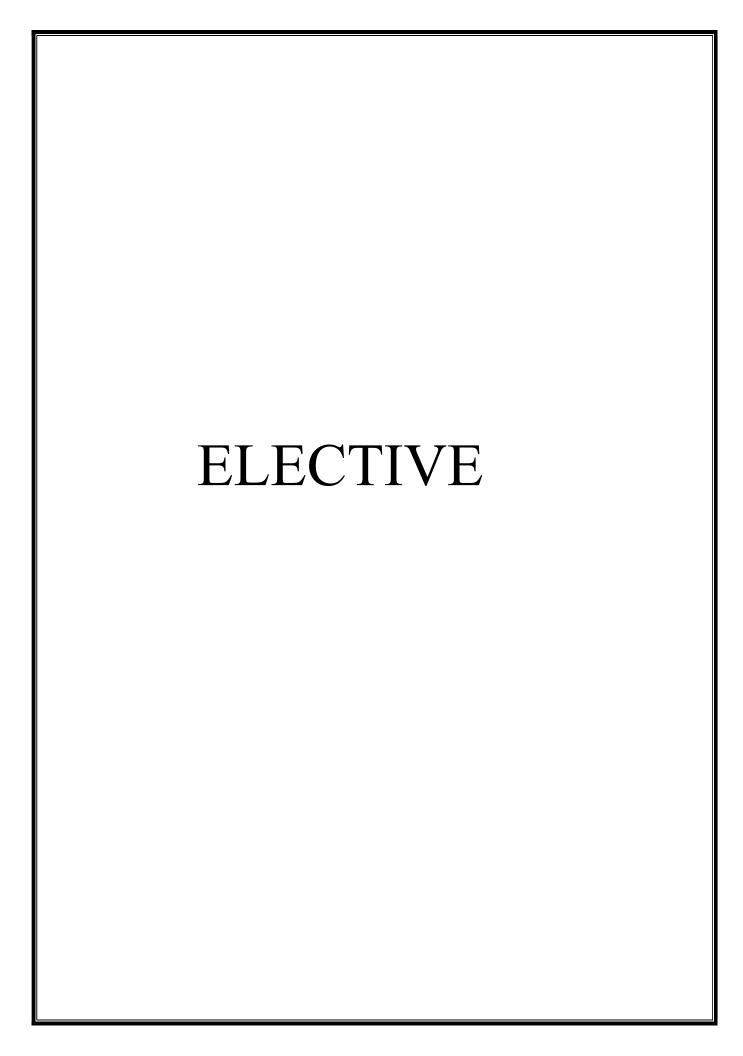
Scale:-

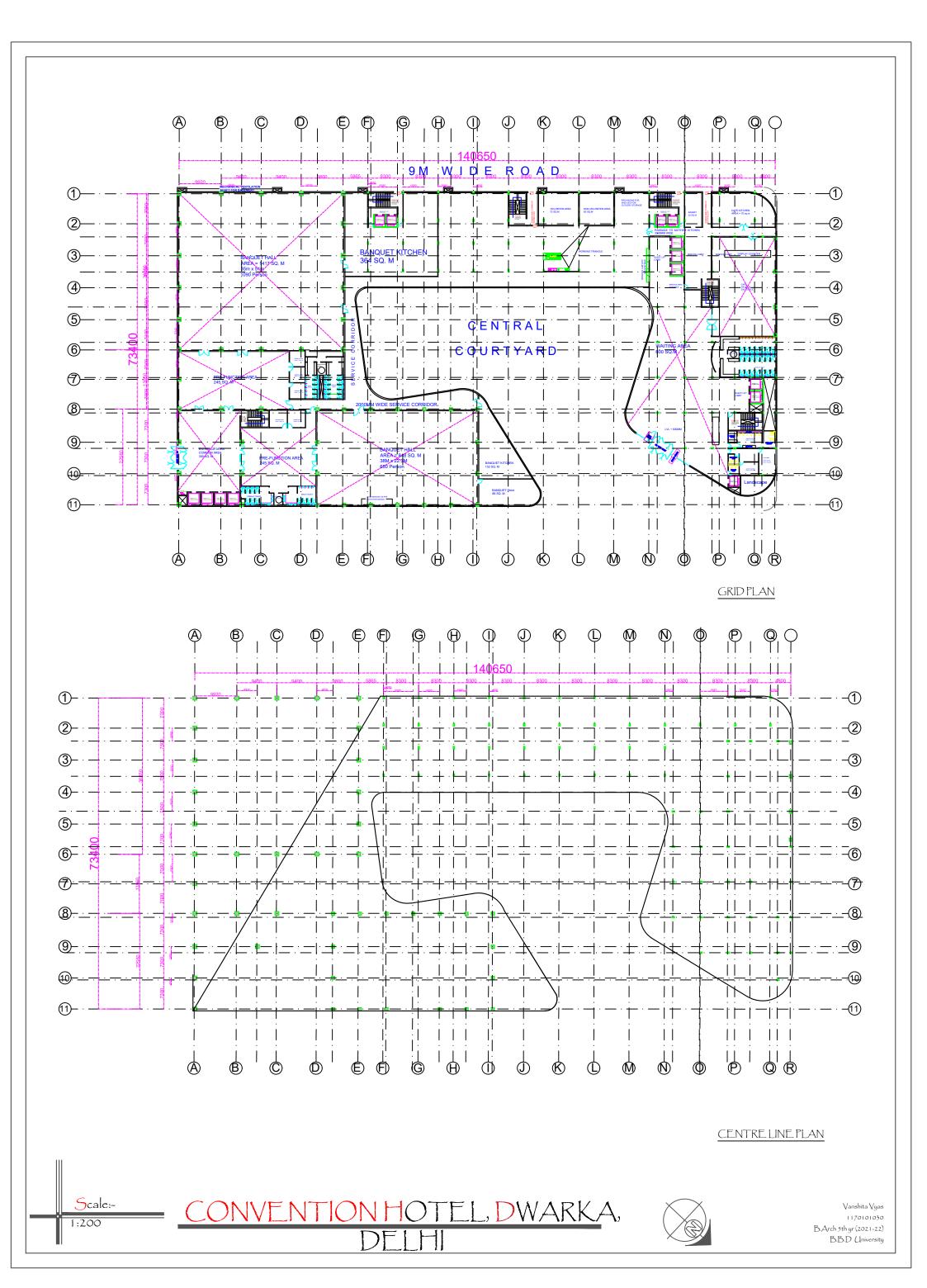
CONVENTION HOTEL, DWARKA,
DELHI

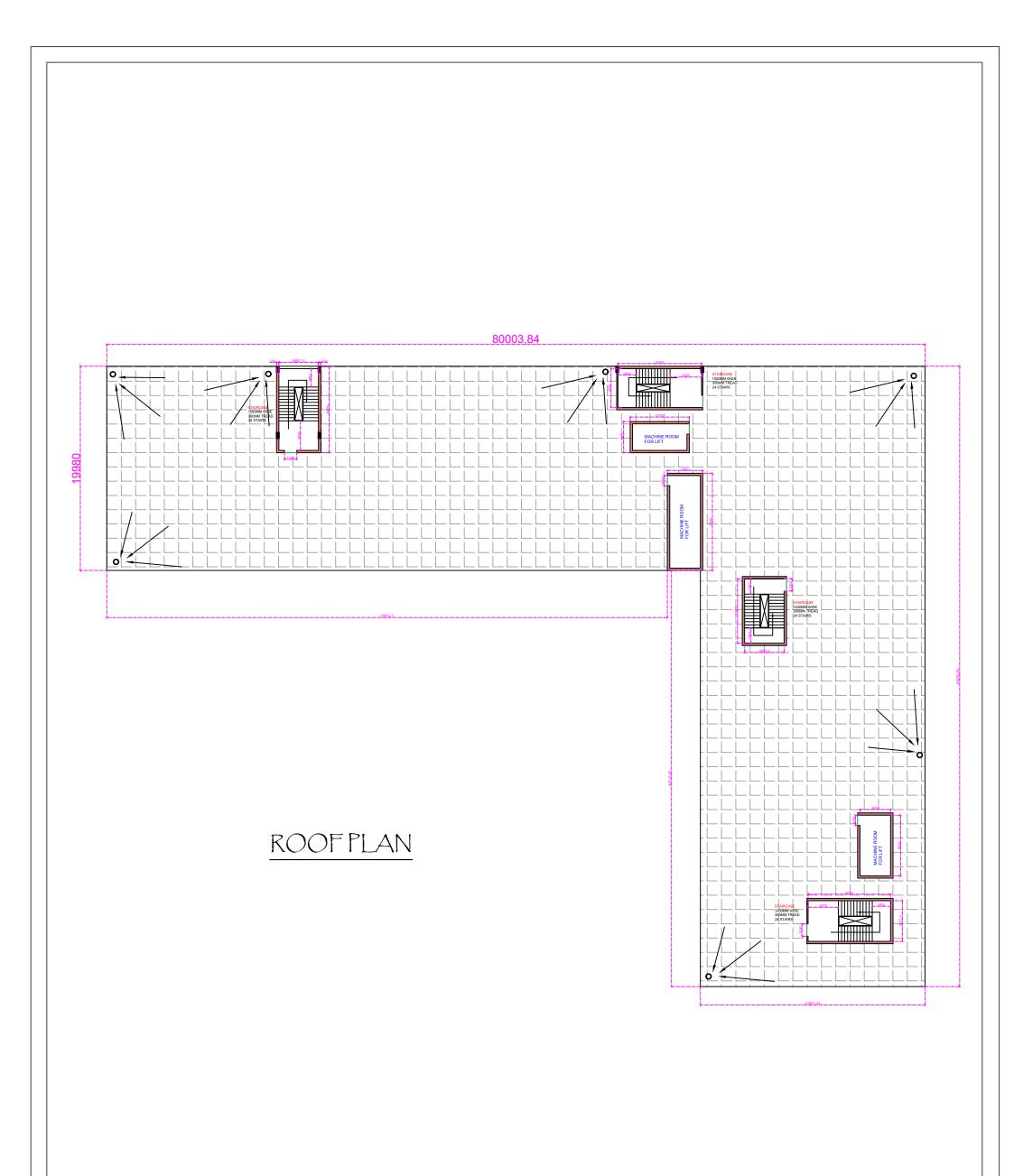


Vanshita Vyas 1170101030 B.Arch 5th yr (2021-22) B.B.D (University













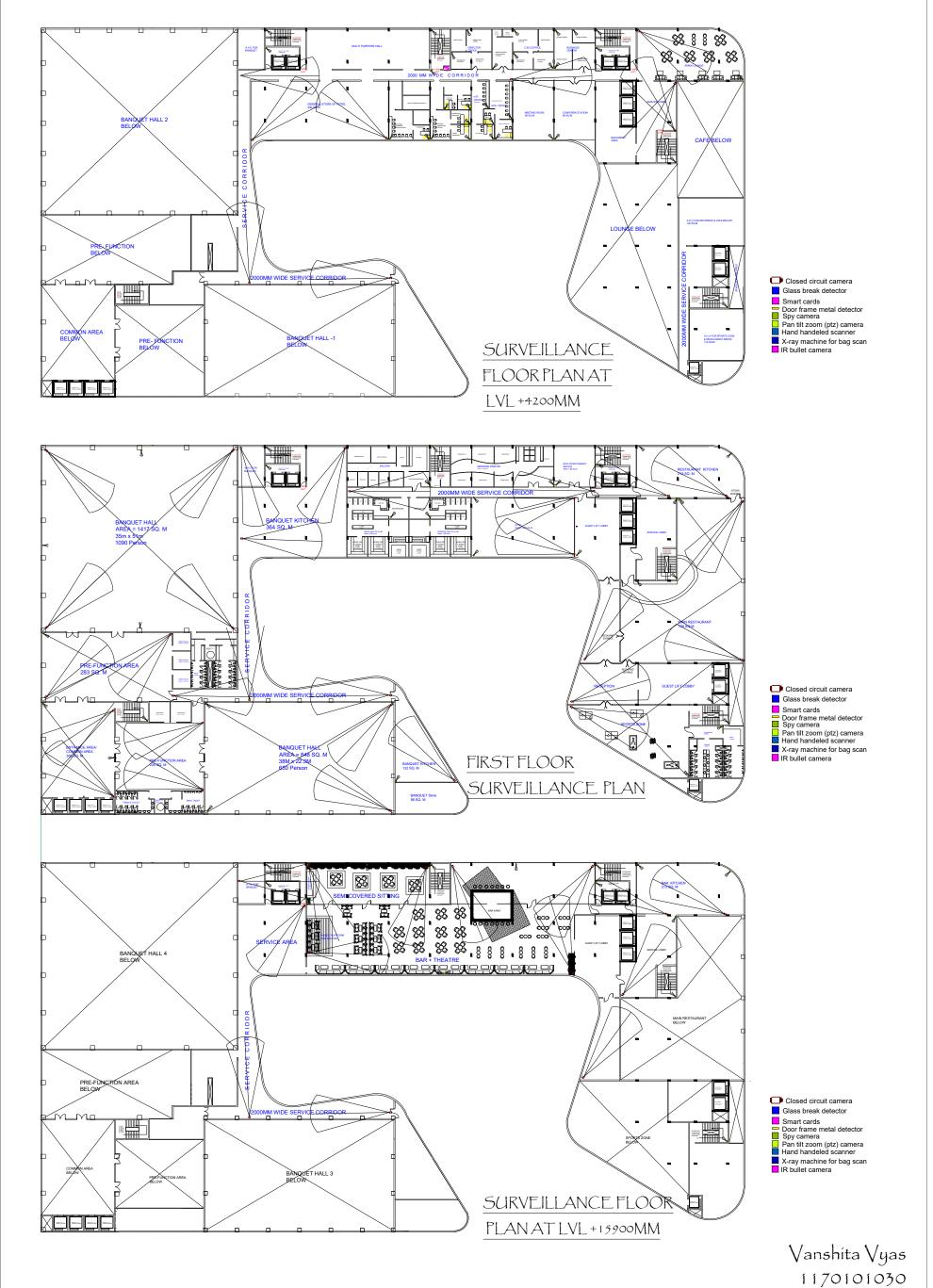


DESIGN ELECTIVE 2 SECURITY & SURVEILLANCE THESIS Hotel Hotel Exit Exit BANQUET KITCHEN 364 SQ. M CENTRAL COURTYARD ≥ WATER TANK BELOW ≥ Landscape Landscape E ROAD Hotel Exit **Entrance** SURVEILLANCE PLANGROUND FLOOR THE PRIMARY OBJECTIVE OF "SECURITY" IS TO SHIELD AN ORGANIZATION FROM UNWANTED EXTERNAL OR INTERNAL INTERFERENCE.
BEFORE WE SET OUT TO INSTALL VARIOUS HI-TECH OFFICE SURVEILLANCE WE NEED TO SMART CARDS- smart card technology though is a decade old security technique closed circuit camaras popularly know as come in a wide range, these are essentially UNDERSTAND WHAT WE NEED TO SECURE.
INSTALLING SEVERAL GADGETS DOES NOT NECESSARILY ENSURES THE SECURITY OF THE OFFICE. cameras placed at strategic areas to monitor the office building from a centerally controlled security room, these cameras have two wiring, one with the power supply and other with the live connectivity with the security room. these AN INTEGRATED SYSTEM OF SECURITY WHEREBY ALL THE DEVICES ARE CONTROLLED CENTRALLY IS THE MOST EFFECTIVE AND INTELLIGENT WAY TO A SAFE OFFICE. THIS ALSO omes in wireless mode also. ESSENTIALLY MEANS THAT EVERY OFFICE MAY UNDERSTAND ITS UNIQUE SECURITY NEEDS AND PLAN ACCORDINGLY. DOOR METAL DETECTOR Closed circuit camera A Door Frame Metal Detector (DFMD) as the name suggests is a metal detector fitted in a door to Glass break detector Smart cards
Door frame metal detector
Spy camera
Pan tilt zoom (ptz) camera
Hand handeled scanner GLASS BREAK DETECTORS-glass break detectors are sensors which are listed. PTZ.CAMERA
PTZ cameras move anywhere between zero
pan/tilt and the full 360 degree pan/180
degree tilt. This gives control over the
required field of view (POV). PTZ cameras a metal detection fitted in a door to detect metal that may be hidden on the body of the person passing through this door. This is also known as a "walk through" metal X-ray machine for bag scan Vanshita Vyas IR bullet camera 1170101030 B.Arch 5th yr (2021-22) OTEL, DWARKA Scale:-B.B.D University

not to scale

DESIGN

THESIS



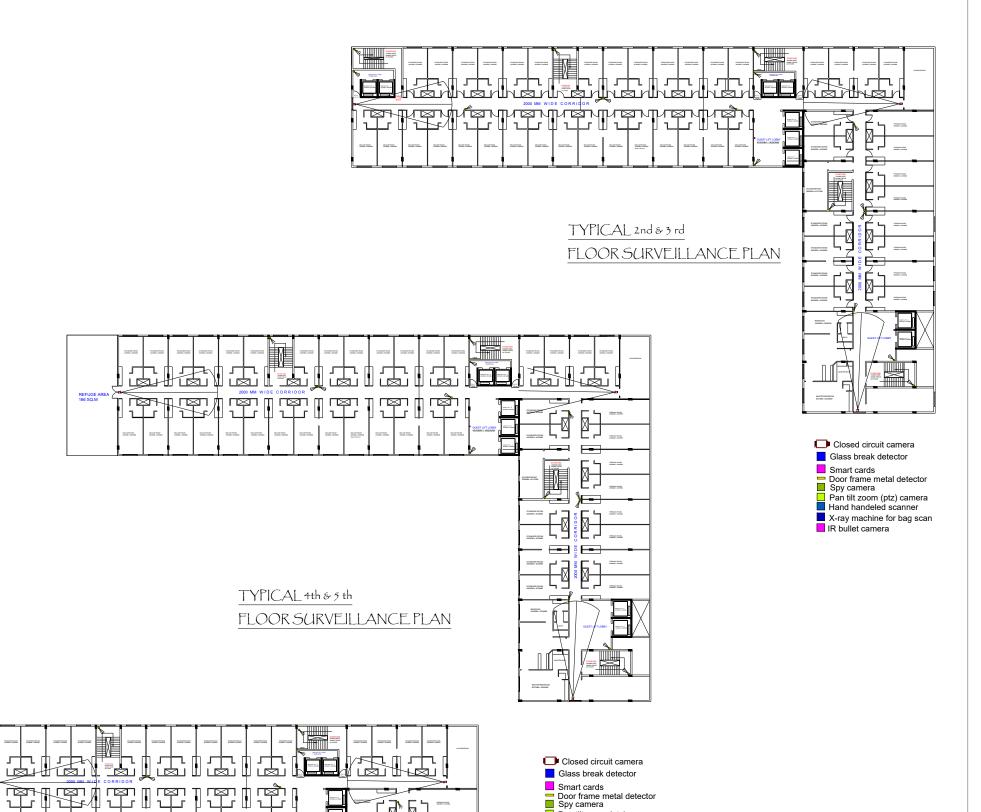
CONVENTION HOTEL, DWARKA

B. Arch 5th yr (2021-22)

B.B.D University

DESIGN

THESIS



TYPICAL 6th & 7th
FLOOR SURVEILLANCE PLAN

Closed circuit camera
Glass break detector

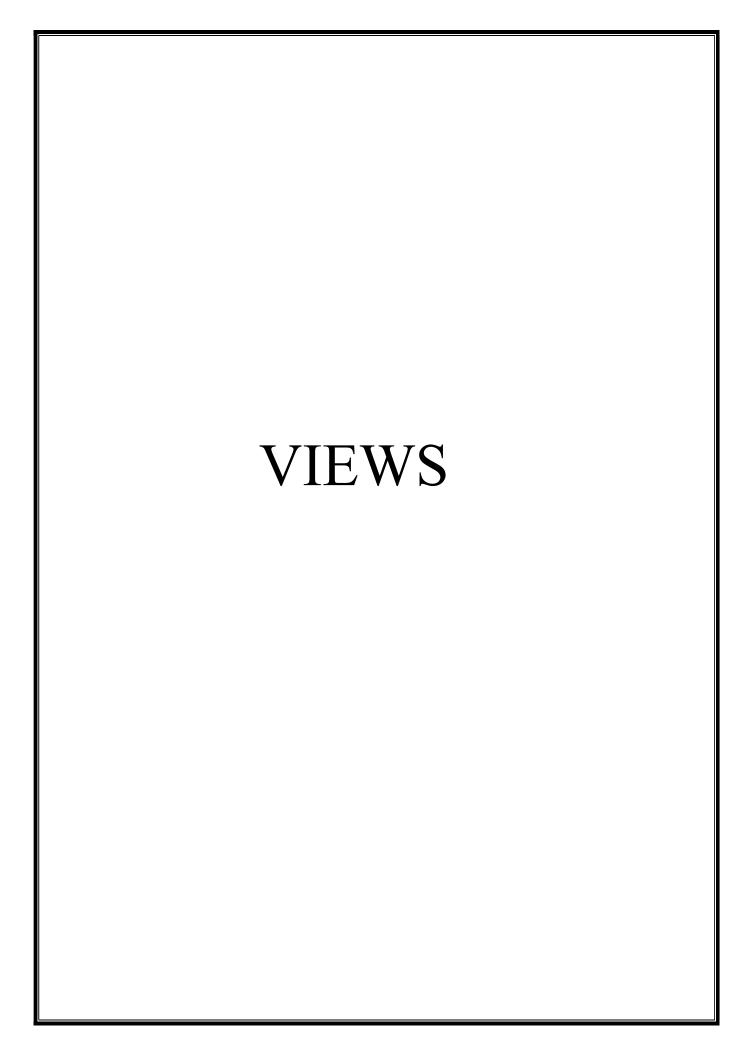
Pan tilt zoom (ptz) camera
Hand handeled scanner
X-ray machine for bag scan
IR bullet camera

Smart cards
Door frame metal detector
Spy camera
Pan tilt zoom (ptz) camera
Hand handeled scanner

Hand handeled scanner
X-ray machine for bag scan
IR bullet camera

Vanshita Vyas 1170101030 B.Arch 5th yr (2021–22) B.B.D University

CONVENTION HOTEL, DWARKA



FRONT VIEW





SIDE VIEW



