

ARCHITECTURE THESIS
REPORT 2019-20

**NATYA ACADEMY AND CULTURAL
COMPLEX, SECTOR 53,
GURUGRAM**

**A Thesis Submitted
in Partial Fulfillment of the
Requirements
for the Degree of**

BACHELOR OF ARCHITECTURE
in
ARCHITECTURE

by
ANSHUMAN SRIVASTAVA
(Enrollment No.- 1150101017)

**UNDER THE SUPERVISION OF
AR. ANKUR SAXENA**

SESSION – 2019-2020

**TO THE SCHOOL OF ARCHITECTURE
BABU BANARASI DAS UNIVERSITY
LUCKNOW**

**SCHOOL OF ARCHITECTURE AND PLANNING
BABU BANARSI DAS UNIVERSITY
LUCKNOW(U.P).**

CERTIFICATE

I HEREBY RECOMMEND THAT THE THESIS, ENTITLED “**NATYA ACADEMY AND CULTURAL COMPLEX**”, PREPARED BY **MR ANSHUMAN SRIVASTAVA** UNDER MY SUPERVISION, IS THE BONAFIDE WORK OF THE STUDENT AND CAN BE ACCEPTED AS A PARTIAL FULFILMENT FOR THE AWARD OF **BACHELOR’S DEGREE** IN ARCHITECTURE, SCHOOL OF ARCHITECTURE BBDU, LUCKNOW.

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AR. ANKUR SAXENA
(Signatures of the Supervisor)

.....
PROF. MOHIT AGARWAL
(DEAN)
SCHOOL OF ARCHITECTURE

Recommendation:

ACCEPTED
NOT ACCEPTED

.....
EXAMINAR-1

.....
EXAMINAR-2

ACKNOWLEDGEMENT

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

I am thankful to **AR. ANKUR SAXENA, AR. ARVIND KUMAR** and 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.

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CERTIFICATE OF THESIS SUBMISSION FOR EVALUATION

1. Name:
2. Roll No.
3. Thesis title:
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 the guidelines. YES ☐ NO ☐
9. The thesis has been prepared without resorting to plagiarism. YES ☐ NO ☐
10. All sources used have been cited appropriately. YES ☐ NO ☐
11. The thesis has not been submitted elsewhere for a degree. YES ☐ NO ☐
12. Submitted 3 spiral bound copies plus one CD. YES ☐ NO ☐

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REMARKS : STATISFACTORY / NOT SATISFACTORY (In case of not
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INTRODUCTION :-

INTRODUCTION

NATYA ACADEMY AND CULTURAL COMPLEX

THE PROJECT PROPOSED IS NATYA ACADEMY AND CULTURAL COMPLEX, GURUGRAM, HARYANA. THE MUNICIPAL CORPORATION OF GURUGRAM PROPOSES NATYA ACADEMY AND CULTURAL COMPLEX ON A 5.3 ACRES LAND IN SECTOR 53, GURUGRAM, HARYANA. THIS PROJECT IS COMBINATION OF TWO PARTS NAMEDLY NATYA ACADEMY AND CULTURAL COMPLEX.

NATYA ACADEMY

NATYA REFERS TO THE TRADITIONAL DANCE, DRAMA, MUSIC AND ART OF INDIA ORIGINATING IN THE TEMPLE AND STILL DEVOTED TO THE ENHANCEMENT OF DIVINE EPICS AND EMBRACING AN ELABORATE SYSTEM OF BODY POSTURES, HAND GESTURES AND FOOT MOVEMENTS. THEREFORE, NATYA ACADEMY IS AN ACADEMY OF PERFORMING INDIAN ARTS.

CULTURAL COMPLEX

A CULTURAL COMPLEX IS AN ORGANISATION, BUILDING OR COMPLEX THAT PROMOTES CULTURE AND ARTS. CULTURAL CENTRES CAN BE NEIGHBOURHOOD COMMUNITY ARTS ORGANISATION, PRIVATE FACILITIES, GOVERNMENT SPONSORED OR ACTIVIST -RUN. CULTURAL COMPLEX MAY BE DEFINED AS A PLATFORM OF DIFFERENT CULTURAL ACTIVITIES, SOCIAL GATHERINGS AND DIFFERENT EXHIBITIONS.

IMPORTANCE OF CULTURAL COMPLEX

WITH THE CITIES GROWING INTO URBAN CULTURE, THE NEED FOR THE GROWTH OF A CULTURAL COMPLEX AND PUBLIC SPACES IN THE CORPORATE CITY IS OFTEN IGNORED. THE CULTURAL COMPLEX RESTABLISHES THE LINK BETWEEN THE CITY AND CULTURE. IT PROVIDES THE PEOPLE A PLATFORM TO SHOWCASE AND WITNESS DIFFERENT CULTURAL FORMS. IT ALSO ACTS AS AN SOCIAL GATHERING SPACE CONTRIBUTING TO THE SOCIAL ASPECTS OF THE CITY. PEOPLE GET TO COME IN TOUCH WITH ALL DIFFERENT FORMS OF ART FORMS LIKE DANCE, MUSIC, THEATRE ETC.

ACTIVITIES IN A CULTURAL COMPLEX



JAWAHAR KALA KENDRA, JAIPUR



PITANGA CULTURAL CENTRE, AUROVILLE



BHARATENDU NATYA ACADEMY, LUCKNOW



THEATRES PLATFORMS



CONNECTING URBAN CITIES



DEVELOPING CULTURAL BACKGROUNDS



SOCIAL CONTRIBUTIONS



DANCE PERFORMANCES



MUSIC PERFORMANCES



ART DISPLAYS



THEATERS



SOCIAL ACTIVITIES



LEARNING ARTS

INTRODUCTION

NEED OF PROJECT

IN THE YEAR 2016, THE ONLY CULTURAL COMPLEX OF GURUGRAM WAS SHUT DOWN DUE TO LEGAL ISSUES. THE PEOPLE OF THE CITY WERE NOT HAVING A PLACE FOR CULTURAL ACTIVITIES AND THUS THIS PROJECT WAS PROPOSED IN 2017.

TOPIC JUSTIFICATION

--THE PROPOSED PROJECT WILL GIVE ME AN OPPURTUNITY TO DESIGN A SOCIAL GATHERING SPACE AMONGST THE CITY CULTURE. ABSENCE OF A CULTURAL SPACE IN THE PRESENT SCENARIOALLOWS ME TO DESIGN A SPACE WHERE PEOPLE CAN HANG OUT SOCIALLY. IT WILL ALSO ALLOW ME TO DESIGN SPACE FOR YOUNG TALENT TO LEARN DIFFERENT FORMS OF DANCE IN THE ACADEMY.

--THIS PROJECT WILL GIVE ME AN OPPURTUNTIY TO DESIGN EXHIBITION SPACES FOR DISPLAYING DIFFERENT CULTURAL ARTS, IT WILL HELP ME TO LEARN ABOUTHE PROCEDURE OF DESIGNING AN AUDITORIUM KEEPING IN MIND THE ACOUSTICS AND VARIOUS OTHER CRITERIA.

PROJECT AUTHENTICITY

MCG MUNICIPAL CORPORATION GURUGRAM
DETAIL NOTICE INVITING TENDER

e-Tender is invited for purchase of below mentioned items in single stage two cover system i.e. Request for Pre-Qualification/Technical Bid (online Bid under PQQ/ Technical Envelope) and Request for Financial Bid (comprising of price bid Proposal under online available Commercial Envelope):-

Memo No: EE-V/MCG/2018/ Date:

Sl. No.	Description of work / Items	DNIT Amount	END to be deposited by Bidder	Tender Document Fee & e-service Fee (Rs.)	Tender Document Download and Bid Preparation/ Submission	Start Date	Expiry Date
1.	Construction of Art and cultural complex building at sector 53 Gurugram, Haryana. (SH- C/o RCC framed structure Building including water supply, sanitary, Electrical installation and E&M Services.)	183.91 Cr	36782025	100000/-	19.12.2018 20:00Hrs	16.01.2019 13:00 Hrs	

1. The Bid conference At: 03.01.2019 in office of the Chief Engineer Municipal Corporation, Gurugram, C-1, Info. City, Sector-34, Haryana. Tender will be opened (to be intimated later).

2. The detail tender notice and Tender Document can be seen on website: <https://haryanaeprocurement.gov.in> and download online from the Portal: <https://haryanaeprocurement.gov.in> by the firms/individual registered on the Portal.

3. Possession of Digital Signature Certificate (DSC) and registration of the contractors on the portal i.e. <https://haryanaeprocurement.gov.in> is a prerequisite for e-tendering.

4. For any other queries please contact Executive Engineer(V), Municipal Corporation Gurugram, No.

5. As the Bids are to be submitted online and are required to be encrypted and digitally signed, the Bidders are advised to obtain Digital Signature Certificate (DSC) at the earliest. For Further details, the Bidders should follow "Instruction to the Bidder", given in DNIT on the above said portal.

Executive Engineer V
For Commissioner
Municipal Corporation

Rs 170 crore Gurugram cultural hub project gets MCG push

Rao Jaswant Singh | TNN | Feb 2, 2019, 07:58 IST

TENDERS TO BE FLOATED SOON

PROJECT | MCG CULTURAL COMPLEX
ARCHITECT | Design Forum International, New Delhi
COST | ₹170 crore
Deadline | December 2021
Location | Sector 53
Area | 22260 SQ.M. (5.5 ACRES)

Amenities

- Exhibition and other galleries
- Library
- Restaurant
- Canteen
- Open-air theater
- Auditorium
- Academies (music, art and dance)
- Pottery workshop
- Guest rooms

Representative image

pending since then. At the time, Haryana Urban Development Authority (Huda), now known as Haryana Shahari Vikas Pradhikaran (HSVP), had earmarked a plot near Sector 53 for a cultural complex. The plot was 5.5 acres in size and was earmarked for a cultural complex.

AIM

-- TO DESIGN A DANCE ACADEMY AND CULTURAL COMPLEX AT SECTOR 53, GURUGRAM.

--DESIGN THE COMPLEX NURTURING THE CULTURAL NEEDS OF THE CITY

OBJECTIVE

--TO PROVIDE A PLACE WHERE DIFFERENT KIND OF CULTURAL ARTS CAN BE PERFORMED AND DISPLAYED.

--TO FULFIL THE CLLTURAL NEEDS OF THE GURUGRAM CITY.

-- TO CREATE A HOLISTIC ENVIRONMENT FOR LEARNING, TEACHING AND DISPLAYING PERFORMING ARTS.

--TO DEVELOP DESIGN CRITERIA OF BUILDING CULTURAL COMPLEX AND DRAMA ACADEMY AND ITS SPACE RESPECTIVELY .

--TO STUDY AND DESIGN AUDITORIUM AND OTHER PERFORMING ARTS SPACES.

SCOPE

-- THE MAIN SCOPE OF THIS PROJECT IS TO DESIGN THE LANDSCAPES, GATHERING SPACES WHERE PEOPLE WILL INTERACT WITH OTHER.

-- THIS PROJECT WILL WORK AS A CENTRE OF EXCELLENCE IN CREATIVE ARTS AND OR IMPART TRAINING TO YOUNG TALENT. THEY WL SERVE AS A MAJOR RESOURCE CENTER FOR THE REGION.

--THE SCOPE OF THIS PROJECT IS ALSO TO MAKE THE PEOPLE AWAREOF THEIR CULTURE AS THEY ARE BEING STUCK IN THE FAST TECH LIFE AND ALSO INTRODUCE THEM TO THE ANCIENT DANCE WHICH WERE PERFORMED IN TEMPLES.

-- THE PROJECT IS TO BE STARTED BY STUDYING THE PRESENT CULTURAL COMPLEXES AND DANCE ACADEMIESAND THEN CREATING ONE ONLY BY UNDERSTANDING THEM.

LIMITATION

-- LIMITATIONOF THIS PROJECT IS THAT THE MAIN FOCUS WILL BE HIGHLIGHTING ON THE CONCEPTUAL DESIGN AND CIRCULATION SPACE, DETAILING WILL NOT BE FOCUSED IN GENERAL.



RHIKE PARK MUSIC THEATRE AND EXHIBITION HALL



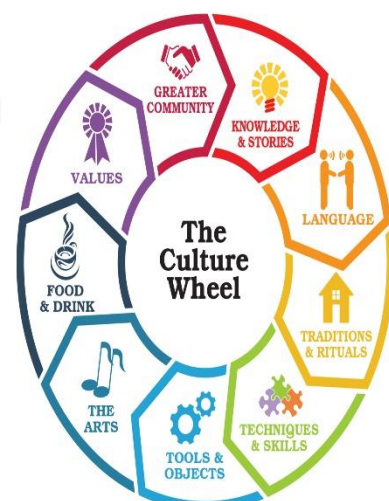
NANJING INTERNATIONAL CULTURE CENTRE, BY ZAHA HADID



UNIVERSITY OF NOTRE DAME



HYLTON PERFORMING ARTS CENTRE



INTRODUCTION

ABOUT THE CITY

GURUGRAM IS LOCATED 30 KM SOUTH OF NATIONAL CAPITAL NEW DELHI AND ABOUT 10 KILOMETERS FROM DWARKA SUB-CITY. OVER THE PAST 25 YEARS THE CITY HAS UNDERGONE RAPID DEVELOPMENT AND CONSTRUCTION. GURUGRAM IS ONE OF DELHI'S MAJOR SATELLITE CITIES AND IS PART OF THE NATIONAL CAPITAL REGION. IT IS WITHIN COMMUTING DISTANCE OF DELHI VIA AN EXPRESSWAY AND DELHI METRO. GURUGRAM IS THE SECOND LARGEST CITY IN THE INDIAN STATE OF HARYANA AND IS THE INDUSTRIAL AND FINANCIAL CENTER OF HARYANA.

PHYSIOGRAPHY

GURGAON IS LOCATED IN GURGAON DISTRICT IN THE INDIAN STATE OF HARYANA AND IS SITUATED IN THE SOUTHEASTERN PART OF THE STATE, AND NORTHERN PART OF THE COUNTRY. THE CITY IS LOCATED ON THE BORDER WITH DELHI WITH NEW DELHI TO ITS NORTHEAST. THE CITY HAS A TOTAL AREA OF 738.8 SQUARE KILOMETRES (285.3 SQ MI).

THE AVERAGE LAND ELEVATION IS 217 METRES (712 FT) ABOVE SEA LEVEL.

ECOLOGY

GURUGRAM LIES ON THE SAHIBI RIVER, A TRIBUTARY OF YAMUNA WHICH ORIGINATES FROM THE ARAVALLI RANGE IN RAJASTHAN AND FLOWS THROUGH WEST AND SOUTH HARYANA INTO DELHI WHERE IT IS ALSO KNOWN AS THE NAJAFGARH DRAIN

WHY GURUGRAM?

The site selected is a developing area

Culturally neutral people accepting various cultural aspects

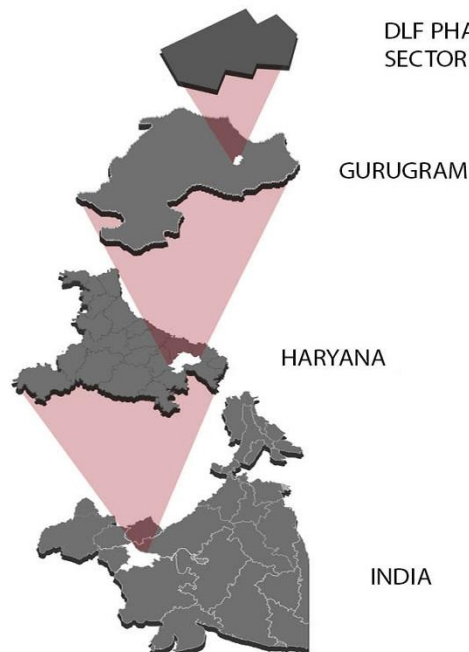
Lacks such kind of socially and culturally active spaces

City currently lacks a cultural centre after existing one closed in 2016

Increasing need of such centers providing platform to artisans

Increasing need of recreational areas with increased metro population

DLF PHASE
SECTOR 53



IDENTIFICATION OF SITE

TRANSPORTATION IN THE CITY

ROADWAYS

DELHI GURGAON EXPRESSWAY
THE MAJOR HIGHWAY THAT LINKS GURGAON IS NATIONAL HIGHWAY 48, THE ROAD THAT RUNS FROM DELHI TO MUMBAI. WHILE THE 27.7-KILOMETRE (17.2 MI) DELHI-GURGAON BORDER-KHERKI DHAULA STRETCH HAS BEEN DEVELOPED AS AN EXPRESSWAY, THE REST IS EXPANDED TO SIX LANES.

TRANSIT SYSTEMS

PUBLIC TRANSIT

IN NOVEMBER 2013, GURGAON LAUNCHED AN CICLOVIA-INSPIRED INITIATIVE KNOWN AS RAAHGIRI DAY—IN WHICH A CORRIDOR OF STREETS ARE CLOSED TO MOTOR VEHICLE TRAFFIC ON SUNDAY MORNINGS TO ENCOURAGE THE USE OF NON-MOTORIZED TRANSPORT AND PARTICIPATION IN OUTDOOR LEISURE ACTIVITIES.

Routes in phase 1

- 1 Gurugram bus stand (GBS) to Manesar
- 2 Harsaru to Dundahera
- 3 HCC to Dharampuri
- 4 Sec 55-56 to Palam Vihar
- 5 Basai Chowk to HUDA City Centre
- 6 Railway station to HUDA City Centre
- 7 Gurugram bus stand to Farukh Nagar
- 8 Gurugram bus stand to Palam Vihar
- 9 IFCO Chowk to Badshahpur
- 10 Gurugram bus stand to Ambience Mall
- 11 Kendriya Vihar to Dundahera



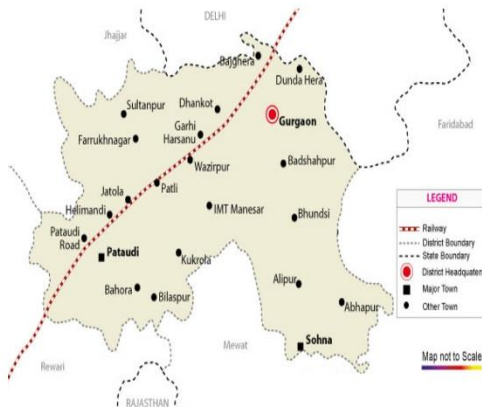
BUS ROUTE MAP OF GURUGRAM

INTRODUCTION

RAILWAYS

INTERCITY RAIL

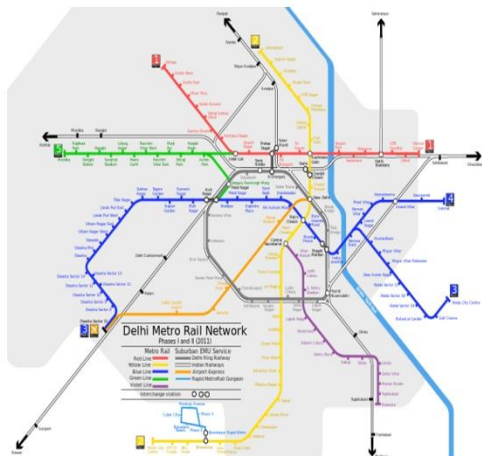
GURGAON RAILWAY STATION IS OPERATED BY NORTHERN RAILWAY OF INDIAN RAILWAYS. ALONG WITH THAT, GURGAON HAS TAJNAGAR RAILWAY STATION, DHANKOT RAILWAY STATION, GHARI HARSARU RAILWAY JUNCTION AND FARRUKHNAGAR RAILWAY STATION, PATLI RAILWAY STATION.



RAIL ROUTE OF GURUGRAM

AIRPORT

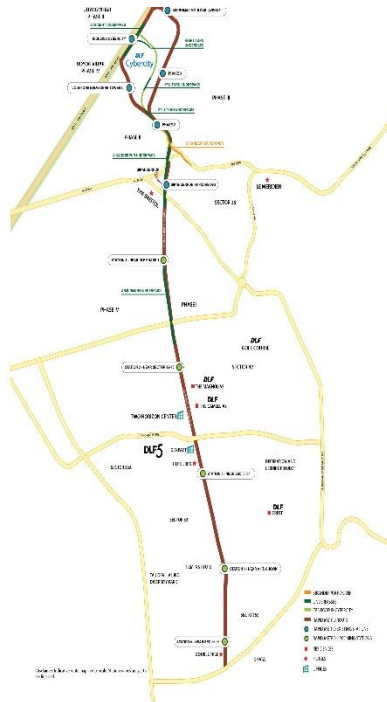
GURGAON IS SERVED BY DELHI'S INDIRA GANDHI INTERNATIONAL AIRPORT, WHICH IS LOCATED JUST OUTSIDE OF GURGAON CITY LIMITS NEAR NATIONAL HIGHWAY



METRO ROUTE OF DMRC

DELHI METRO

HUDA CITY CENTRE METRO STATION ON THE YELLOW LINE OF DELHI METRO
EXTENSION OF DELHI METRO YELLOW LINE IS APPROVED BY HARYANA GOVERNMENT, IN WHICH THE LINE STARTED FROM HUDA CITY CENTRE GO UP TO GURGAON RAILWAY STATION, FROM GURGAON RAILWAY STATION IT GOES TO OLD DELHI ROAD SECTOR 23. THIS YELLOW LINE EXTENSION HAVING AN INTERCHANGE WITH DELHI-GURGAON-REWARI-ALWAR RRTS CORRIDOR AND EXTENSION OF DLF GURGAON RAPID METRO AT OLD DELHI ROAD.



METRO ROUTE OF RAPID LINE

RAPID METRO

RAPID METRO HAS ELEVEN STATIONS IN GURGAON, WITH AN INTERCHANGE WITH YELLOW LINE OF DELHI METRO AT SIKANDARPUR METRO STATION AND CURRENTLY COVERS A DISTANCE OF 11.7 KILOMETRES (7.3 MI). ONE MORE PHASE OF THE PROJECT ARE IN THE PIPELINE AND WOULD TAKE THE TOTAL NUMBER OF SUBWAY STATIONS IN THE CITY TO 16. AN ESTIMATED 33,000 PEOPLE RIDE RAPID METRO EVERY DAY.



DELHI GURGAON EXPRESSWAY



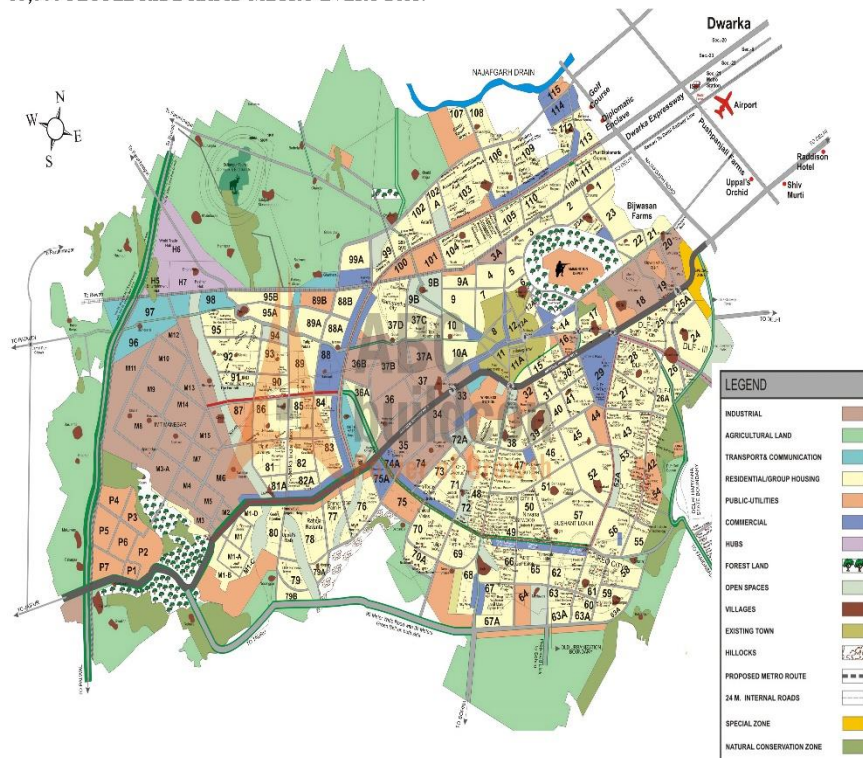
RAPID METRO LINE



HUDA CITY CENTRE METRO STATION



INDIRA GANDHI INTERNATIONAL AIRPORT



SITE STUDY :- 1

SITE STUDY

CULTURE NAD TRADITION

CULTURE

ENTERTAINMENT AND PERFORMING ARTS

NOTABLE PERFORMING ART VENUES IN THE CITY INCLUDE EPICENTRE IN SECTOR 44 AND NAUTANKI MEHAL AT THE KINGDOM OF DREAMS NEAR IFFCO CHOWK.



RELIGION

GURGAON HAS ADHERENTS OF HINDUISM, SIKHISM, ISLAM, BUDDHISM, JAINISM, CHRISTIANITY AND THE BAHÁ'Í, AMONGST OTHERS.



SPORTS

THE CITY HAS TWO MAJOR SPORTS STADIUMS: TAU DEVI LAL STADIUM IN SECTOR 38, WHICH HAS FACILITIES FOR CRICKET, FOOTBALL, BASKETBALL AND ATHLETICS AS WELL AS A SPORTS HOSTEL, AND NEHRU STADIUM WHICH IS DESIGNED FOR FOOTBALL AND ATHLETICS. AMITY UNITED FC IS A TENANT OF TAU DEVI LAL STADIUM. GURGAON DISTRICT HAS NINE GOLF COURSES, AND IS DESCRIBED AS THE 'HEART OF INDIA'S GOLFING COUNTRY'.

CITYSCAPE

ARCHITECTURE

GURGAON HAS ARCHITECTURALLY NOTEWORTHY BUILDINGS IN A WIDE RANGE OF STYLES AND FROM DISTINCT TIME PERIODS. GURGAON SKYLINE WITH ITS MANY SKYSCRAPERS IS NATIONALLY RECOGNISED. GURGAON HAS AN ESTIMATED 1,100 RESIDENTIAL HIGH-RISES.



NEIGHBOURHOODS

GURGAON IS DIVIDED IN 36 WARDS, WITH EACH WARD FURTHER DIVIDED INTO BLOCKS. THE HOUSING TYPE IN THE CITY CONSISTS LARGELY OF ATTACHED HOUSING. GURGAON HAS COMPLEX PARK SYSTEM, OPERATED BY GURUGRAM DEVELOPMENT AUTHORITY.



CLIMATE

Climate data for Gurgaon													[hide]
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Average high °C (°F)	21.1 (70.0)	24.2 (75.6)	30.0 (86.0)	36.2 (97.2)	39.6 (103.3)	39.3 (102.7)	35.1 (95.2)	33.3 (91.9)	33.9 (93.0)	32.9 (91.2)	28.3 (82.9)	23.0 (73.4)	31.4 (88.5)
Average low °C (°F)	7.3 (45.1)	10.1 (50.2)	15.4 (59.7)	21.5 (70.7)	25.9 (78.6)	28.3 (82.9)	26.6 (79.9)	25.9 (78.6)	24.4 (75.9)	19.5 (67.1)	12.8 (55.0)	8.2 (46.8)	18.8 (65.8)
Average rainfall mm (inches)	20.3 (0.80)	15.0 (0.59)	15.8 (0.62)	6.7 (0.26)	17.5 (0.69)	54.9 (2.16)	231.5 (9.11)	258.7 (10.19)	127.8 (5.03)	36.3 (1.43)	5.0 (0.20)	7.8 (0.31)	797.3 (31.39)
Average rainy days	1.7	1.3	1.2	0.9	1.4	3.6	10.0	11.3	5.4	1.6	0.1	0.6	39.1
Mean monthly sunshine hours	213.9	217.5	238.7	261.0	263.5	198.0	167.4	176.7	219.0	269.7	246.0	217.0	2,688.4

UNDER THE KÖPPEN CLIMATE CLASSIFICATION, GURGAON EXPERIENCES A MONSOON-INFLUENCED COMPOSITE CLIMATE .THE CITY EXPERIENCES FOUR DISTINCT SEASONS - SPRING (FEBRUARY - MARCH), SUMMER (APRIL - AUGUST), FALL/AUTUMN (SEPTEMBER - OCTOBER) AND WINTER (NOVEMBER - JANUARY), ALONG WITH THE MONSOON SEASON SETTING IN TOWARDS THE LATTER HALF OF THE SUMMER. SUMMERS, FROM EARLY APRIL TO MID-OCTOBER, ARE TYPICALLY HOT AND HUMID, WITH AN AVERAGE DAILY JUNE HIGH TEMPERATURE OF 40 °C (104 °F). THE SEASON EXPERIENCES HEAT INDICES EASILY BREAKING 43 °C (109 °F). WINTERS ARE COOL AND FOGGY WITH FEW SUNNY DAYS. THE WESTERN DISTURBANCE BRINGS SOME RAIN IN WINTERS THAT FURTHER ADDS TO THE CHILL. SPRING AND AUTUMN ARE MILD AND PLEASANT SEASONS WITH LOW HUMIDITY. THE MONSOON SEASON USUALLY STARTS IN THE FIRST WEEK OF JULY AND CONTINUES TILL AUGUST. THUNDERSTORMS ARE NOT UNCOMMON DURING THE MONSOON. THE AVERAGE ANNUAL RAINFALL IS APPROXIMATELY 714 MILLIMETRES .

SITE STUDY

DEMOGRAPHICS

ACCORDING TO THE 2011 CENSUS GURGAON DISTRICT HAS A POPULATION OF 1,514,432.THE DISTRICT HAS A POPULATION DENSITY OF 1,241 INHABITANTS PER SQUARE KILOMETRE (3,210/SQ MI) .GURGAON HAS A SEX RATIO OF 853 FEMALES FOR EVERY 1000 MALES, AND A LITERACY RATE OF 84.4%.AT THE TIME OF THE 2011 CENSUS OF INDIA, 91.91% OF THE POPULATION IN THE DISTRICT SPOKE HINDI, 2.35% PUNJABI, 2.20% BENGALI, 0.49% MAITHILI AND 0.40% ODIA AS THEIR FIRST LANGUAGE.

TOPOGRAPHY

MOSTLY FLAT SURFACE WITH GENTLE SLOPES TOWARDS EAST AND NORTH.

ELEVATION : 217 METRES (712 FT) ABOVE SEA LEVEL.

SOIL TYPE

- ALLUVIAL SOIL
- HUMUS, LIME AND ORGANIC MATTERSARE PRESENT.
- HIGHLY FERTILE.
- COLOR : LIGHT GREY TO ASH GREY.
- TEXTURES : SANDY TO SILTY LOAM OR CLAY.
- BEARING CAPACITY IS 80KN/SQM TO 160KN/SQM.
- RAFT FOUNDATION IS PREFERRED FOR ALLUVIAL SOIL

VEGETATION

GURGAON'S NATURAL VEGETATION IS CALLED A THORN FOREST, WHICH FORMS A TRANSITION ZONE- WHERE DRY DECIDUOUS FOREST SSHADES IN TO DESERT SCRUB-A SEMI-ARID ENVIRONMENT.MOST COMMON TREES OF THORN FOREST ARE, ACACIAS AND THEIR RELATIVES A GROUP O FLEGUMINOUS(POD-BEARING) PLANTS CALLED "MIMOSAS" LIKE BABOOL, JHAND, PHULAI, KHOJ AND KHAIR.

HYDROLOGY

GROUND WATER AT APPROX 100-15-FT BELOW THE GROUND LEVEL ,DEPENDING UPON THE DIFFERENT SEASONS. THUS BASEMENT CONSTRUCTION IS EASY AND DESIR- ABLE.RAINWATER HARVESTING IS TO BE ESSENTIAL INCORPORATED IN DESIGN BY COLLECTING WATER THROUGH PAVEMENT AREAS.

SIESMIC DETAILS

THE ENTIRE REGION OF GURUGRAM FALLS IN HIGH RISK OF SIESMIC ZONE IV MAKING IT VULNERALE TO EARTHQUAKE. ALTHOUGH NO MAJOR EARTHQUAKE HAS OCCURED IN GURUGRAM IN RECENT YEARS,YET TREMORS HAVE BEN FELT WHENEVER THERE IS AN EARTHQUAKE NEARBY.

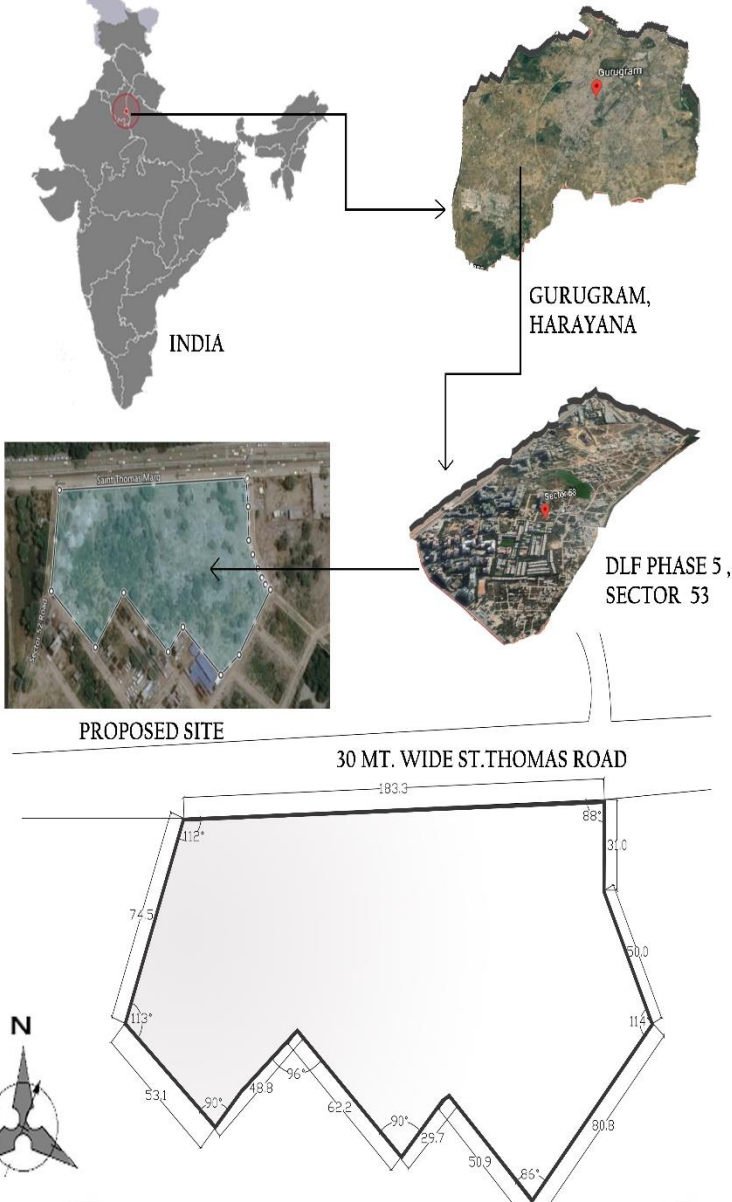
PROJECT BRIEF

PROJECT	NATYA ACADEMY AND CULTURAL COMPLEX
CLIENT	MUNICIPAL COORPORATION OF GURUGRAM
LOCATION	DLF PHASE 5 SECTOR 53, GURUGRAM
COORDINATES	22°44'9".17 N 77°08'97.66 E
ELEVATION	217 MTS FROM SEA LEVEL
SHAPE	IRREGULAR PLOT SHAPE
AREA	22257.7 SQ MT. (APPROX 5.5 ACRES)

SITE DETAILS

THE SITE IS SPREAD OVER 5.5 ACRES LAND AT ST.THOMAS MARG DLF PHASE 5, SECTOR 53, GURUGRAM, HARYANA.

THE SHAPE OF SITE IS IRREGULAR SPREAD OVER 5.5 ACRES OF LAND AND IS ACCESSION THROUGH ROAD ON ONE SIDE ONLY WHICH IS 8MT. WIDE RESPECTIVELY.



SITE STUDY

ORIENTATION

THE FOLLOWING DIAGRAM SHOWS THE ORIENTATION OF THE SITE.



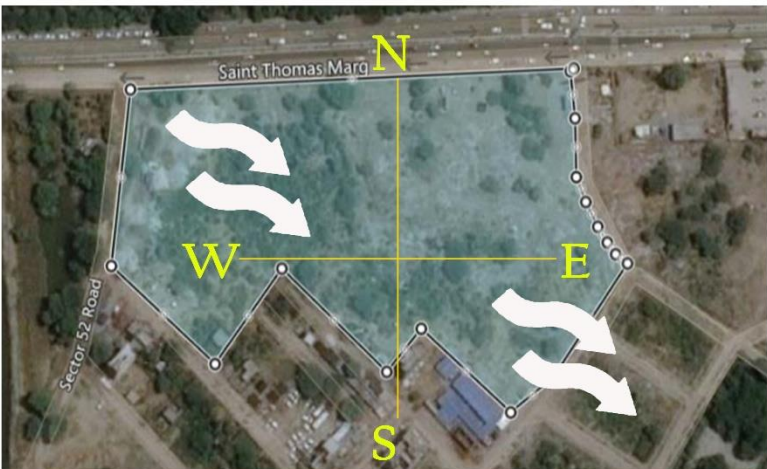
SUN PATH

THE FOLLOWING DIAGRAM SHOWS THE MOVEMENT PATH OF SUN.

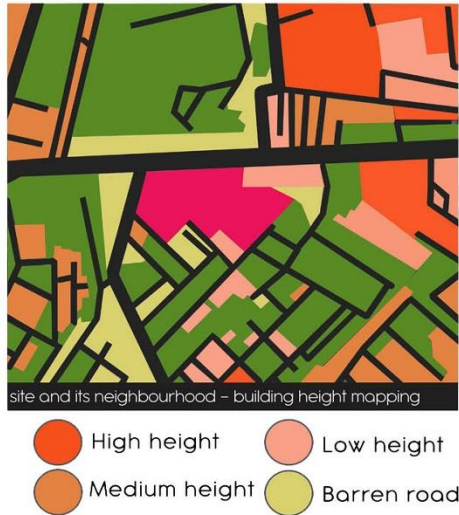


WIND DIRECTION

THE FOLLOWING DIAGRAM SHOWS THE WIND DIRECTION AT THE SITE



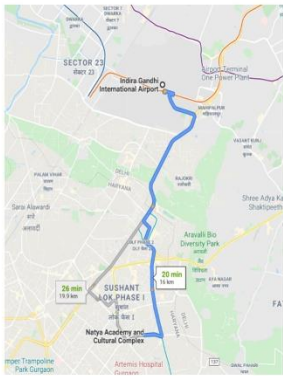
CONTEXT MAPPING



SITE STUDY

APPROACH TO SITE

THE SITE IS EASILY ACCESSIBLE THROUGH DIFFERENT PARTS OF THE CITY

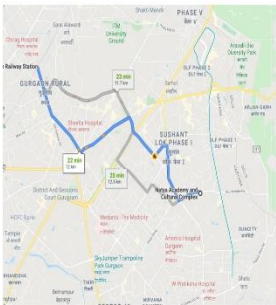


FROM NEAREST AIRPORT
THE SITE IS LOCATED AT A DISTANCE OF 16 KM TO INDIRA GANDHI INTERNATIONAL AIRPORT VIA NH48 WITH ESTIMATED TIME OF 25 MIN.



16 KM

25 MIN.

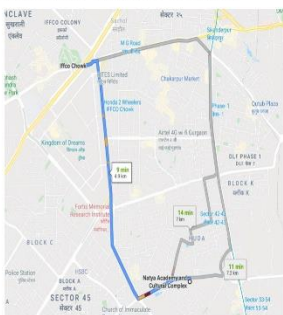


FROM NEAREST RAILWAY STATION
THE SITE IS LOCATED AT A DISTANCE OF 13 KM TO GURGAON RAILWAY STATION VIA ST.THOMAS MMARG WITH ESTIMATED TIME OF 22 MIN.



13 KM

22 MIN.

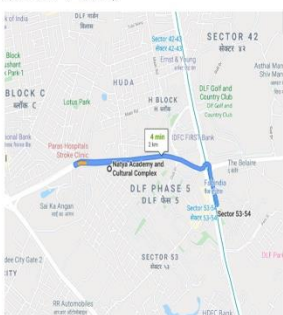


FROM NEAREST BUS STATION
THE SITE IS LOCATED AT A DISTANCE OF 4.9 KM TO IFCO CHOWK BUS STATION VIA ST.THOMAS MMARG WITH ESTIMATED TIME OF 9 MIN.



4.9 KM

9 MIN.



THE SITE IS LOCATED AT A DISTANCE OF 2KM TO SECTOR 53-54 METRO STATION RAPID LINE



4.9 KM

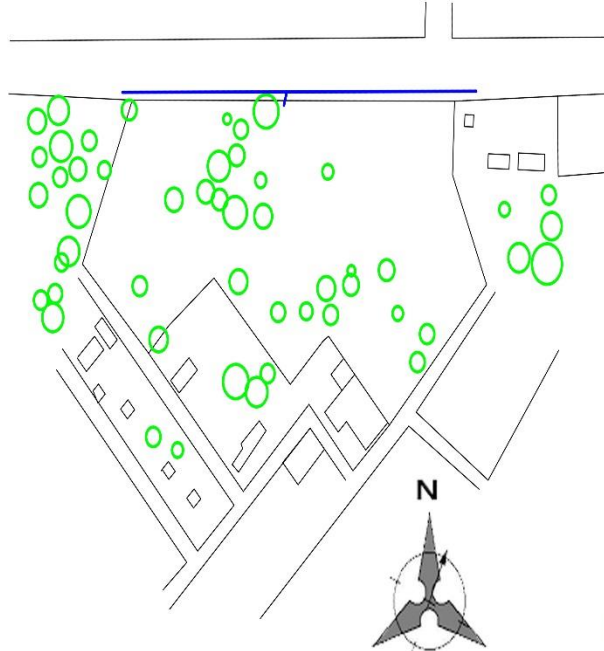
9 MIN.



ON SITE FEATURES

VEGETATION

WILD GRASS AND SHRUBS
THE SITE IS SPARSELY VEGETATED THUS IT BECOME ESSENTIAL TO PLAN A WELL DESIGNED LANDSCAPE SCHEME TO REDUCE THE ENERGY CONSUMPTION OF THE BUILDING AND MAKE THE



VIEW OF SITE AT EAST POINT



VIEW OF SITE AT WEST POINT

GAS PIPE LINE

THE SITE IS SERVICED DIRECTLY WITH SKN-HCG(SKN-HARYANA CITY GAS) PIPE LINE .

MAN-HOLE CHAMBER

MCG(MUNICIPAL CORPORATION OF GURUGRAM) SERVICES THE MAN-HOLE CHAMBER PRESENT AT THE SITE ON THE SIDE OF ST.THOMAS MARG.

ELECTRICITY SUPPLY

THE SITE IS SERVICED WITH ELECTRICITY POLES PROVIDED BY THE DAKSHIN HARYANA BIJLI VITRAN NIGAM(DHBVN).



SKN-HCG PIPE LINE AT SITE



DHBVN ELECTRICITY AT SITE

SITE STUDY

BYE-LAWS

TOTAL PLOT AREA : 5.5 ACRES (22257.5 SQMT. APPROX.)

PERMISSIBLE GROUND
COVERAGE : 25% OF SITE AREA

PERMISSIBLE F.A.R : 1.5

SET BACK :

FRONT SET BACK : 15 MT.

REAR SET BACK : 9 MT.

WHAT TO BE PROPOSED

- AUDITORIUM FOR 2000 PERSONS
- THEATRE
- ART GALLERY
- SCULPTURE STUDIO
- WORKSHOP
- LIBRARY
- EXHIBITION CENTRE
- MEETING AND MEDIA ROOM
- ADMIN BLOCK
- GUESTY HOUSE
- CAFETERIA
- DOMITORY FOR 40 PERSONS
- SHOPING COMPLEX

OFF SITE FEATURES

S.W.O.T ANALYSIS

STRENGTH

- LOCATION OF SITE - THE SITE IS SITUATED WITHIN A KM FROM THE MAJOR TRANSIT STATION.
- PROMOTE PEDESTRIAN AND WALKABLE DESIGN
- ALL MAJOR SERVICES ARE AVAILABLE NEAR BY.
- THE SITE IS CONNECTED TO DELHI AND NCR REGION EASILY.

WEAKNES

- NO INTERESTING VIEW SIDE FROM SITE AND ITS SURROUNDING
- THE SOIL TYPE IS ALLUVIAL SOIL WHICH WILL RESULT IN THE CONSTRUCTION OF PILE FOUNDATION FOR THE STRUCTURES TO BE CONSTRUCTED AT THE SITE.

OPPURTUNITY

- TO CREATE LANDMARK FOR THE CITY OF GURUGRAM CITY.
- THE PROJECT WILL PROMOTE THE CAUSE OF CULTURAL ACTIVITIES FOR THE CITY.
- THE NATYA ACADEMY WIL PROMOTE THE PRACTICING OF ART AND CULTURE FOR THE YOUTH.

THREAT

- THE PLANTATION OF ON AND OFF-SITE ARE TO BE DISLOCATED FOR THE CONSTRUCTION OF BUILDING.



A VIEW FROM ST. THOMAS MARG



B VIEW FROM SITE TOWARDS ST. THOMAS MARG



C VIEW OF SITE FROM ST. THOMAS MARG



D VIEW OF SITE FROM ST. THOMAS MARG FROM FRIENDS REPUBLIC



L VIEW OF STORAGE GODOWN BESIDE THE SITE



E VIEW OF DLF WESTEND HEIGHTS FROM SITE



K VIEW OF ROAD CONDITION



F SPACE DUG JUST BESIDE THE SITE



J VIEW OF ROAD CONDITION SURROUNDING THE SITE



I VIEW OF SITE FROM BACKSIDE



H VIEW OF MILK GODOWN LOCATED



G VIEW OF PG LOCATED NEAR SITE

CASE STUDY :- 1

**INDIA HABITAT CENTRE,
NEW DELHI**

CASE STUDY-1 (LIVE)

INDIA HABITAT CENTRE, NEW DELHI

INTRODUCTION-

LOCATION - LODHI ROAD ,DELHI
AREA - 9 ACRES
ARCHITECT - JOSEPH ALLEN STEIN
YEAR OF - 1988-93
CONSTRUCTION

INDIAN HABITAT CENTRE WAS CONSTRUCTED TO DEVELOP AN INTEGRATED ENVIRONMENT IN WHICH VARIOUS PROFESSIONS AND INSTITUTIONS DEALING WITH HABITAT AND HABITAT RELATED ENVIRONMENTAL ISSUES WOULD FUNCTION.

IT IS A PLACE THAT HANDLES AN ENORMOUS VARIETY OF PUBLIC AND PRIVATE ACTIVITIES, FROM HOUSING TO BANKING TO ENTERTAINMENT TO FOOD.

INDIAN HABITAT CENTRE IS HOME TO 37 INSTITUTIONS, LIKE TERI , HUDCO, COA, NID ETC. THOUGH OF AN IMPOSING NATURE, THE BUILDING COMPLEX MANAGES TO BLEND IN WITH ITS SURROUNDINGS THROUGH ITS NATURAL EMBELLISHMENTS.

IN KEEPING WITH ITS HABITAT THEME, THE WHOLE COMPLEX HAS BEEN GENEROUSLY PROVIDED WITH NATURAL GREENERY TO PROVIDE AN UNDILUTED EXPERIENCE OF OPEN NATURE.

THE PRINCIPLE RESOLVE OF THE CENTRE " TO RE-STORE AT EVERY LEVEL- ENVIRONMENT AND ECOLOGICAL- A BALANCED AND IMPROVED WAY OF LIFE" TO BE REFLECTED IN CONCEPT AND DESIGN.

FACILITIES

- 1 THE I.H.C. PROVIDES THE FOLLOWING FACILITIES FOR THE USE OF MEMBER:
- 2 40,000 SQUARE METERS OF OFFICE ACCOMMODATION
- 3 CONFERENCE ROOMS WITH A TOTAL CAPACITY OF 1000 IN 10 LOCATIONS.
- 4 60 GUEST ROOM, FIVE SUITES.
- 5 A 700 SQM EXHIBITION AREA.
- 6 A 250 SEAT AMPHITHEATRE.
- 7 AN AUDITORIUM WITH 500 CAPACITY.

ACCESSIBILITY

From	Distance	Time
International Airport	15 Kms.	30 mins.
Domestic Airport	12 Kms.	20 mins.
New Delhi Railway Station	07 Kms.	15 mins.
Old Delhi Railway Station	16 Kms.	30 mins.
Connaught Place	05 Kms.	07 mins.
India Gate	03 Kms.	05 mins.



VIEW OF SITE AT EAST POINT



VIEW OF ENTRANCE AT IHC CONVENTION



SITE MODEL AT IHC OFFICE



LOCATION OF SITE

APPROACH-

THE SITE HAS ACCESS FROM THREE SIDES, HAVING THE LODHI ROAD ON THE NORTH, MAX MULLER MARG TOWARDS THE WEST AND VARDHAMAN MARG ON THE SOUTHERN SIDE.

CASE STUDY-1 (LIVE)

SITE ANALYSIS

LOCATION-

THE INDIA HABITAT CENTRE (IHC) IS LOCATED ALONG THE LODHI ROAD ON THE FRINGES OF LUTYEN'S DELHI.

LODHI ROAD IS HOME TO VARIOUS RENOWNED ORGANIZATIONS LIKE INDIA INTERNATIONAL CENTRE, THE FORD FOUNDATION, INDIAN METEOROLOGICAL DEPT, RESEARCH AND ANALYSIS WING (RAW).

SITE SURROUNDINGS-

LODHI ROAD, NEW DELHI IS NAMED AFTER THE LODHI GARDENS LOCATED ON IT.

A NUMBER OF CULTURAL, EDUCATIONAL INTERNATIONAL INSTITUTIONS LINE THE ROAD

SITE SURROUNDINGS INCLUDE ORGANIZATIONS LIKE INDIA INTERNATIONAL CENTRE, THE FORD FOUNDATION, INDIAN METEOROLOGICAL DEPT, RESEARCH AND ANALYSIS WING (RAW)

THE AREA WAS REFERRED TO AS "STEINABAD" DUE TO PRESENCE OF VARIOUS ARCHITECTURAL CREATIONS OF STEIN ON THIS STRETCH.

OBSERVATION-

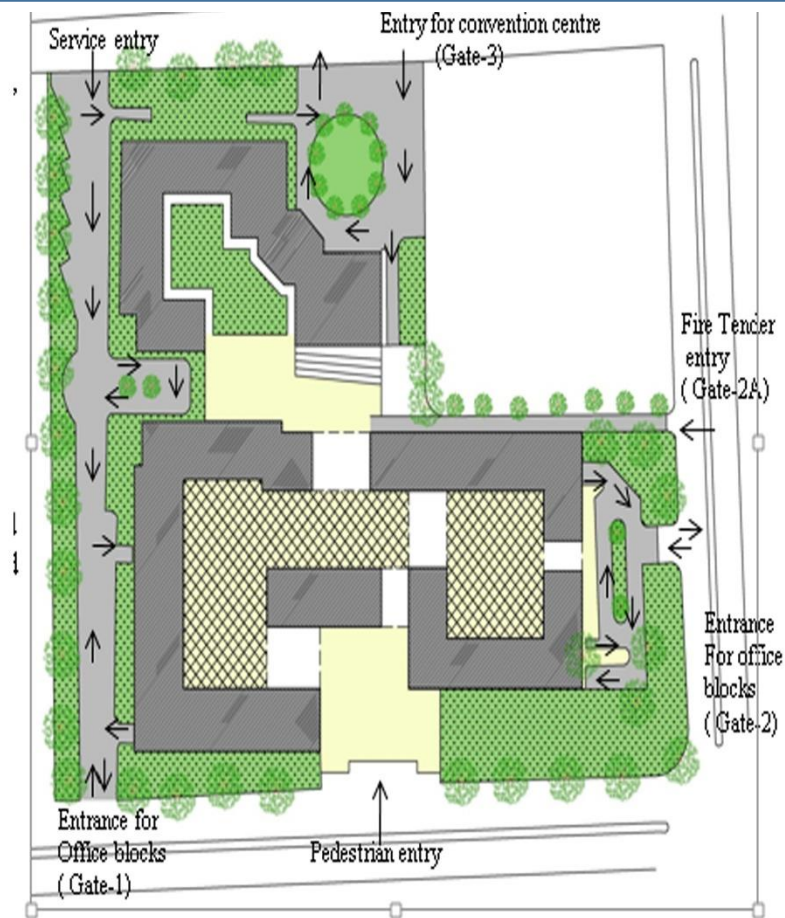
BUILDING HAS TYPICAL CHARACTER, SO IT IMPRESSES THE PASSERBY.

ON BOTH SIDES ARE ROADS HAVING FAST MOVING TRAFFIC LEADING TO NOISE DISTURBANCE, SO MAXIMUM LANDSCAPED ARE PROVIDED NEAR PERIPHERY TO OVERCOME THIS.

SITE CHARACTER-

TOTAL SITE AREA - 9 ACRES

TOPOGRAPHY - PLOT IS L-SHAPED WITH PRIMARILY FLAT TERRAIN.



Circulation pattern at site level

CIRCULATION SITE LEVEL-

THE L-SHAPED COMPLEX HAS AN ACCESS FROM THREE SIDES, WITH THE LODHI ROAD (GATE-1) ON THE NORTH, MAX MULLER MARG (GATE-2, 2A) TOWARDS THE WEST AND VARDHAMAN MARG (GATE 3, 3A) ON THE SOUTHERN SIDE.

- ALL THE GATES LEAD TO THE DOUBLE BASEMENT PARKING.
- GATE-1 ON LODHI ROAD HAS SURFACE PARKING FOR CHAUFFEUR DRIVEN CARS.
- LODHI ROAD HAS DEDICATED PEDESTRIAN ENTRY.
- GATE 2A SERVES AS ENTRANCE FOR FIRE TENDER.
- GATE 3A IS USED AS SERVICE ENTRY FOR RESTAURANTS AND GUEST HOUSE.
- VEHICULAR MOVEMENT IS RESTRICTED TO THE PERIPHERY OF THE SITE.

CIRCULATION BUILDING LEVEL-

- INDIA HABITAT CENTRE IS DESIGNED AS A VEHICLE-FREE ENVIRONMENT.
- ALL THE CARS AND TWO WHEELERS ARE DIRECTED TO TWO LEVELS OF BASEMENT AFTER DROP-OFF.
- ON SITE CIRCULATION BECOMES PART OF THE ACTIVITY.
- COURTYARDS ACT AS A IMPORTANT LINK IN THE CIRCULATION PATTERN.



CASE STUDY-1 (LIVE)

ZONING

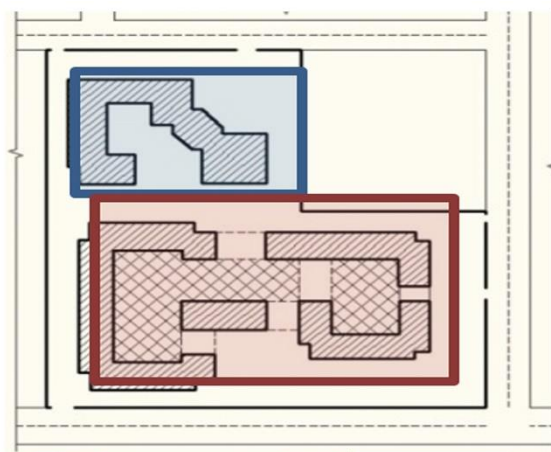
THE COMPLEX IS DIVIDED INTO TWO BLOCKS -

NORTH BLOCK -THE BLOCK ADJOINING THE LODHI ROAD IS FURTHER DIVIDED INTO FOUR ZONES - 4, 5, 6 AND 7.

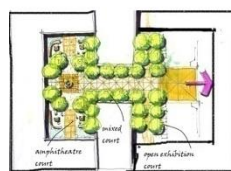
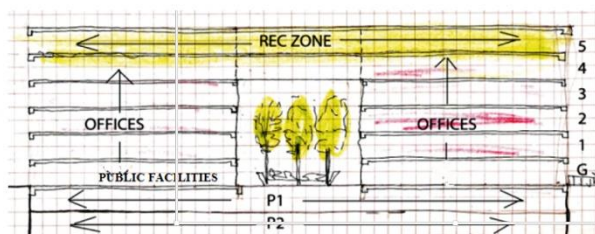
THIS BLOCK COMPRISES OF PUBLIC FACILITIES LIKE ART GALLERY, RESTAURANT ON GROUND FLOOR, TOP FLOOR HAVE OFFICE AREAS.

SOUTH BLOCK - THIS BLOCK IS FURTHER DIVIDED INTO TWO ZONES - 1 & 2.,

HOUSES MOST OF THE ANCILLARY FACILITIES OF THE NORTH BLOCK LIKE AUDITORIUM, GUEST ROOMS, CONFERENCE, LIBRARY, HEALTH CLUB, SWIMMING POOL AND RESTAURANT ETC.



South block, North block,



SPATIAL ORGANISATION

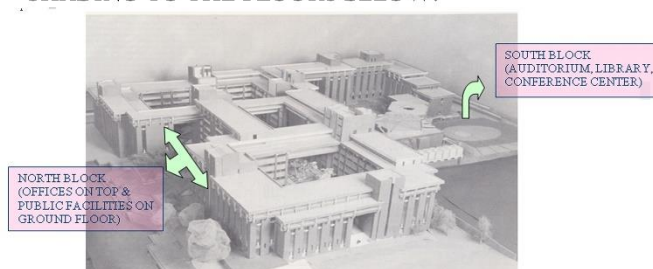
THE HABITAT CENTRE IS ORGANIZED AS A SERIES OF FOUR TO SEVEN STOREY BLOCKS AROUND LINKED SHADED COURTYARDS. THE BUILT FORMS ARE GROUPED AROUND CLIMATE TEMPERED COURTS, SHADED BY OVERHEAD SUNSCREENS AND ARE ENLIVENED BY VERTICAL GARDENS. THE COMPLEX HAS A VERY WELL PLANNED SEGREGATION OF SPACES. THE PUBLIC AND THE SEMI-PUBLIC AREAS HAVE BEEN PLACED IN SEPARATE BUILT BLOCKS, THE COURTS AND THE LANDSCAPE AREAS FORM A VERY GOOD CONNECTION BETWEEN THE TWO.

Area	Capacity	Area (in m2)
AUDITORIUM BLOCK		
Auditorium	537	558
Audi dome	350	385
Basement theatre		194
a) Mahagony	25	
b) Kadamba	30	
c) Rudraksha	30	
d) Amaltas	120	
FUNCTION ROOM BLOCK		
Magnolia	100	128
Casuarinas	60	127
Silver oak 1	100	120
Silver oak 2	70	73
The silver oak room (1+2) + foyer + patio		465
Silver oak lawn		554
15 + 16		1020
Chinar	25	28
Willow	50	52
Gulmohar	120	245
Jacaranda (1+2) + foyer		338
Mahogany	25	40
THE EXHIBITION HALL		
THE EXHIBITION COURT	150	191
HABITAT VISUAL ART GALLERY	350	
OUTDOOR VENUES		
THE AMPHI THEATRE	300	27
MARGOSA LAWN	160	468
SILK COTTON GARDEN	85	243
EMERALD GARDEN	80	252
CASCADE COURT		1132
PALM COURT		1455
THE HUB	650	
THE PLAZA	450	360

PLANNING

HABITAT CENTRE IS ORGANIZED AS A SERIES OF 5-6 STOREY BLOCKS.

- THE COMPLEX HAS A THOUGHTFUL ZONING OF SPACES-
- THE AREAS WHICH EXPECT LARGE INFLOW OF PUBLIC ARE PLACED NEAR THE ENTRANCE.
- THE TWO BLOCKS ON THE LODHI ROAD HAVE PUBLIC FACILITIES ON GROUND FLOOR AND OFFICE AREAS ON THE UPPER FLOORS.
- THE BLOCKS HOUSING THE OFFICES ARE ARTICULATED TO FORM COURTYARDS, THE COURTS ALSO BEING PUBLIC SPACES FOR EXHIBITION
- OFFICES HAVE ENTRANCES FROM INNER SIDE OF THE COURTYARD.
- THE BLOCKS FACING THE HOUSING AREAS ON VARDHMAN MARG HAVE BEEN KEPT LOW HEIGHT.
- THE COURTYARDS BECOME ACTIVE AREAS AFTER OFFICE HOURS.
- UPPER FLOORS ARE CANTILEVERED TO PROVIDE SHADING TO THE FLOORS BELOW.



PLAZA STEPS

CASE STUDY-1 (LIVE)

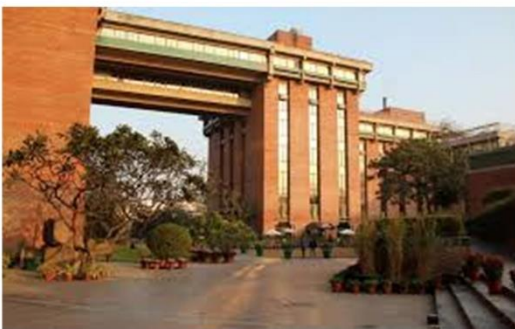
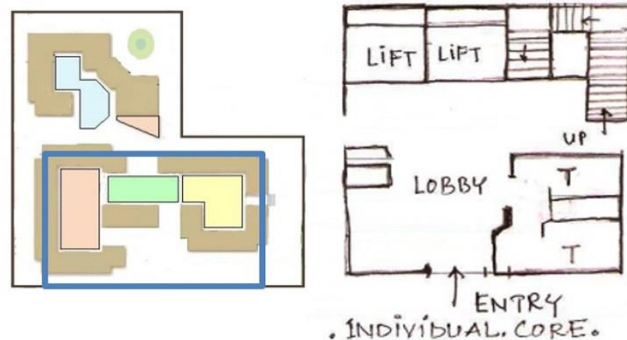
ARCHITECTURAL EXPRESSION-

- THE EXTERIOR IS CLADDED WITH RED BRICKS, WHEREAS THE INTERIOR FACADES HAVE COMBINATION OF BRICKS AND STONE.
- THE MONOTONY OF HORIZONTAL STRETCH IS BROKEN BY VERTICAL RIBBON WINDOWS ON EXTERNAL FAÇADE.
- INTERIOR SURFACES HAVE HORIZONTAL RIBBON WINDOWS.
- THE RIBBON WINDOWS HAVE SLOTS FOR PLANTATION WHICH ADD TO THE BEAUTY OF THE ENTIRE COMPLEX.
- THE BRIDGE CONNECTING THE VARIOUS BLOCKS HAVE EXPOSED CONCRETE FINISH.
- WINDOWS HAVE PLANTERS PAINTED IN PRIMARY COLORS.
- CONVENTION CENTRE IS DEFINED BY HUGE PERGOLAS.
- SEPARATION BETWEEN WALLS ARE LINED WITH TILE AND HELP IN DISPOSAL OF RAIN WATER.
- THE TOP TWO FLOORS ARE PROJECTED TWICE WHICH PROVIDE SHADING TO THE FLOORS BELOW.



BRIDGES-

- THE BUILDINGS ARE BUILT AROUND COURTS AND LINKED AT 5/6 TH FLOOR BY BRIDGES TO FORM HUGE GATEWAYS.
- THESE MULTI LEVEL BRIDGES PROVIDE OFFICE SPACES, RESTAURANTS AS WELL AS LINKS BETWEEN VARIOUS ZONE.
- THE BRIDGES HELP IN SHADING OF PUBLIC AREA. THE BRIDGES FORM FRAMED VIEWS AND VISTAS AND COMPLETE THE CHARACTER OF THE ENCLOSED COURTS.



THE HUGE ENTRANCE CREATES A SENSE OF STRONG VIEW

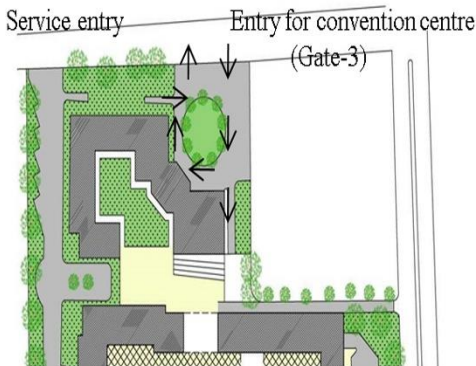
BUILT-UP -OFFICE AREAS

- OFFICES AREAS WHICH EXPECT LARGE INFLOW OF PUBLIC ARE PLANNED NEAR THE ENTRANCES.
- OFFICE BLOCKS HAVE ENTRANCES FORM INNER SIDE OF THE COURTYARDS.
- OFFICE SPACES ARE LARGE AREAS WITHOUT PERMANENT INTERNAL PARTITIONS.
- INTERNAL FINISHES AND LAYOUT ARE DONE AS PER INDIVIDUAL CONCERN.
- FLOOR TO FLOOR HEIGHT IS 3.75M WITH CLEAR HEIGHT OF 3M.

CASE STUDY-1 (LIVE)

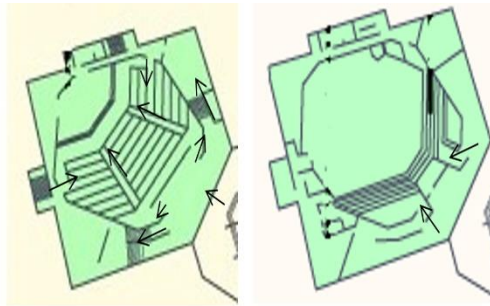
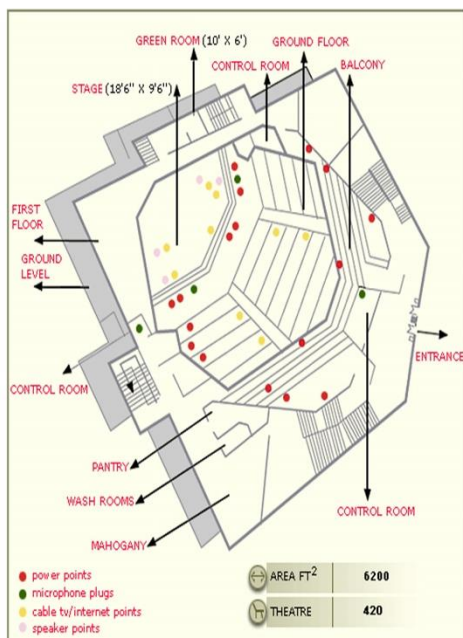
CONVENTION CENTRE-

COLLECTIVELY CALLED "HABITAT WORLD".
CONVENTION CENTRE BLOCK IS DIVIDED INTO
TWO STRUCTURES - AUDITORIUM AND
CONVENTION BLOCK.
SEGREGATION HELPS IN BETTER HANDLING OF
CROWD.
CONVENTION BLOCK HAS SEPARATE ENTRY FROM
VARDHMAN MARG.



ENTRANCE GATE TO CONVENTION CENTRE

STEIN AUDITORIUM



ARCHITECTURAL EXPRESSION-

EXTERIOR FAÇADE IS CLADDED WITH RED BRICKS
ON GROUND FLOOR, UPPER FLOOR HAS JAALI
PATTERN.
ENTRANCE FROM WITHIN THE HABITAT CENTRE
IS ADORNED WITH DOUBLE STOREY HEIGHT
PERGOLAS.
PORCH HAS EXPOSED CONCRETE FINISH.

PLANNING-

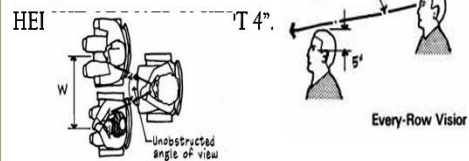
TOTAL CAPACITY - 537
AREA- 6206 SQFT
SITTING IN TWO LEVELS.
STAIRS ONLY WAY OF VERTICAL CIRCULATION.

THE FOYER- THE FOYER AREA IS INADEQUATE AND
BECOMES OVERCROWDED.
THE FOYER HOUSES RECEPTION AREA AND
SECURITY CHECKING AREA.
FOYER DIRECTLY LEADS TO TOP MOST ENTRIES ON
GROUND FLOOR.

AUDIENCE TRAFFIC- THE FOYER ACCOMMODATES
TWO STAIRCASES.
THE STAIRCASES LEAD TO UPPER LEVEL OF
AUDITORIUM AND TO THEATRES BELOW THE

AUDITORIUM.
GROUND FLOOR HAS 5 ENTRIES/EXIT FOR PUBLIC
AND 2 ENTRIES FOR PERFORMERS.

SEATING- TOTAL EATING CAPACITY OF 530, 350 IN
MAIN HALL AND 180 AS BALCONY SEATING.
THE SEATS ARE STAGGERED I
VIEW.



HALL HAS STRAIGHT RADIAL AISLES AND
NO CROSS AISLE.

STAGE- STAGE AREA IS -
STAGE HAS NO SEPARATE ORCHESTRA
PIT.

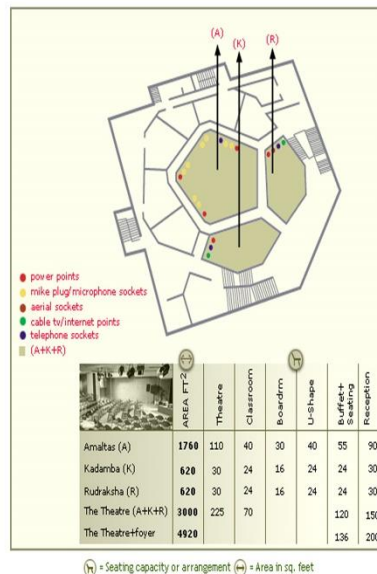
TEAKWOOD PARAQUET FLOORING IS
PROVIDED.

BACK STAGE AREA HAS 2 GREEN ROOMS
AND ONE V.I.P LOUNGE.

WALLS ARE CLADDED WITH WOODEN
PANELS.

CARPET FLOORING IS PROVIDED FOR
BETTER ACOUSTICS.

THEATRES



THE SPACE BELOW THE AUDI SEATING
ACCOMMODATES THE THEATRE-
AMALTAS (1760 SQFT) KADAMBA (620
SQFT) RUDRAKSHA (620 SQFT).
THE STAIRCASE IN THE FOYER OF STEIN
AUDITORIUM LEADS TO THE THEATRE
AREA.

THE TRINITY OF ROOMS IS EXTREMELY
FLEXIBLE, WITH INDIVIDUAL AS WELL AS
COMBINED USAGE POSSIBILITIES.
THE THEATRES HAVE BUFFET AREA IN
FRONT.



CASE STUDY-1 (LIVE)

PARKING ANALYSIS

ALL THE ENTRANCES LEAD TO BASEMENT PARKING.

SURFACE PARKING IS PROVIDED ONLY FOR CHAUFFER DRIVEN CARS FROM GATE NO.1
THERE ARE TWO BASEMENTS EACH OF AREA 8000 SQM.

THE LOWER BASEMENT HOUSES PARKING AND SERVICE AREAS LIKE ELECTRIC ROOM, GENERATOR ROOM, PUMP ROOM WHEREAS THE UPPER BASEMENT HOUSES PARKING ONLY.

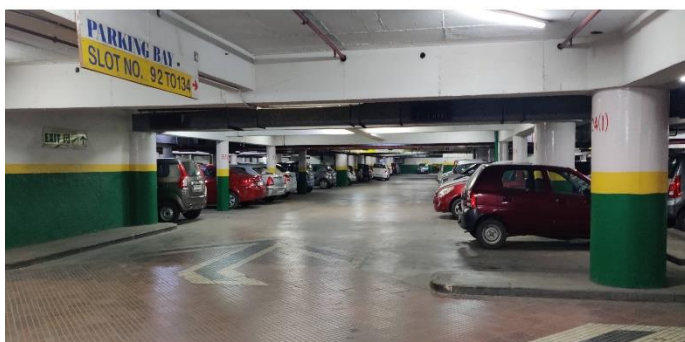
BOTH THE BASEMENT CAN ACCOMMODATE AROUND 1000 CAR.



PLAN OF UPPER BASEMENT



PLAN OF LOWER BASEMENT



SERVICES

D.G SET- FOUR D.G SETS, TWO WITH CAPACITY OF 100KV AND OTHER TWO WITH CAPACITY OF 500KV.

D.G SETS PROVIDED IN LOWER BASEMENT.

A.C PLANT ROOM- INSTALLED IN LOWER BASEMENT AND THE CHILLERS ARE PLACED ON GROUND.

THERE ARE 5 A.H.U FOR NORTH BLOCK (OFFICE AREA) AND 8 A.H.U FOR SOUTH BLOCK (CONVENTION AREA)

WATER SUPPLY- NO OVER HEAD WATER TANK. WATER FILTRATION PLANT IN THE LOWER BASEMENT.

DAILY REQUIREMENT OF WATER IS AROUND 14 LAC.



CASE STUDY-1 (LIVE)

LANDSCAPE

EACH INTERNAL COURTYARD HAS BEEN DESIGNED TO IMPART A DISTINCT IDENTITY TO THE SPACES AND IS CONDUCTIVE TO THE TYPE OF FUNCTIONS OR ACTIVITIES THAT CAN BE ANTICIPATED. THIS HAS BEEN ACHIEVED BY PAVING PATTERNS IN DIFFERENT MATERIALS, THE USE OF WATER, A PLAY OF LEVELS AND PLANTS

- STEPPED PLANTERS SERVE AS SITTING SPACE TOO.

- PALM TREES HAVE BEEN PLANTED TO CREATE A REFRESHING ENVIRONMENT INSIDE.

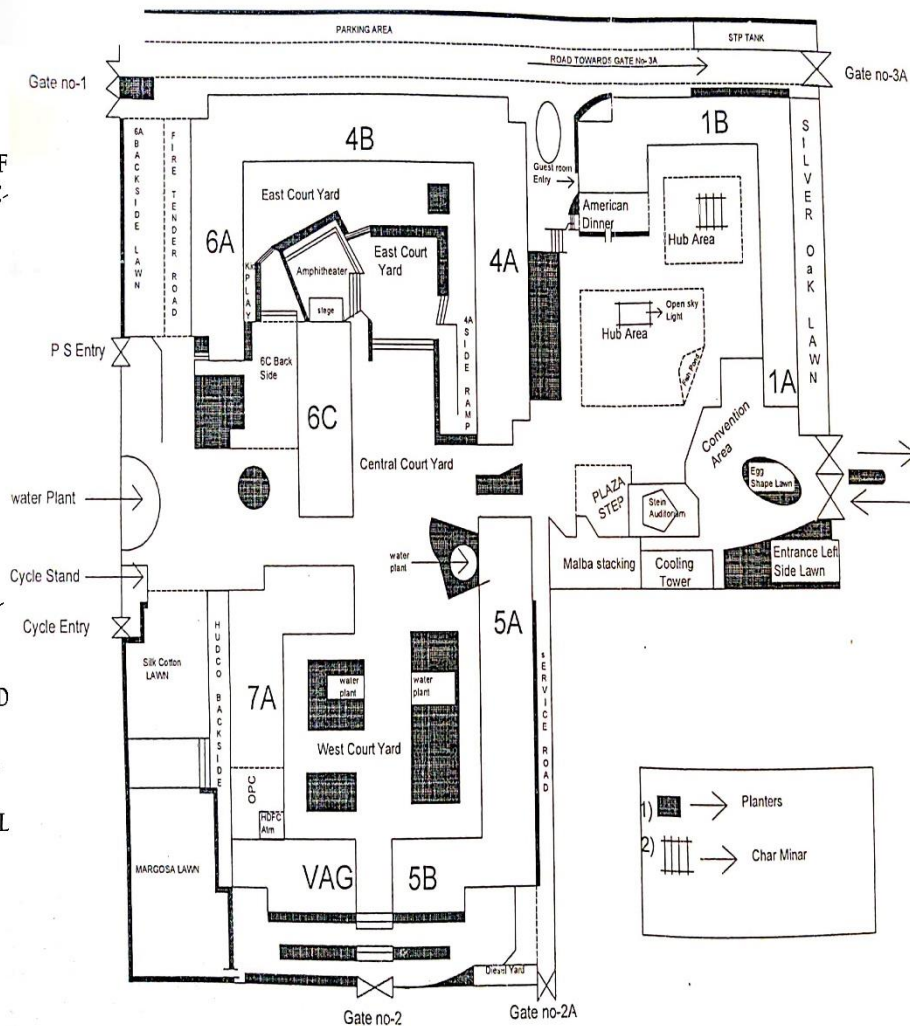
- SCULPTURES HAVE BEEN PLACED AT STRATEGIC POINTS CREATING AN ELEMENT OF INTEREST.

- WATER PONDS ARE PROVIDED TO CUT THE RIGIDITY OF HARSH MATERIALS.

- THE ROOF OF THE BUILDING, TOO, IS DESIGNED AS A SERIES OF TERRACES, WHICH HAVE BEEN ENTIRELY CONVERTED INTO ROOF GARDENS.

- THE EXTERNAL SPACES HAVE A MORE FORMAL QUALITY, TO ACT AS A FOREGROUND FOR THE BUILDING.

- THE FACADES ABOUND IN WINDOW BOXES, WHERE PLANTS FURTHER SOFTEN THE WALL SURFACES.



STRUCTURE

RCC FRAMED STRUCTURE IS EMPLOYED. BUILDINGS ARE GROUPED AROUND SEMI- COVERED COURTS AND LINKED AT THE 5TH AND 6TH FLOOR LEVEL AND ABOVE BY BRIDGES. THESE BRIDGE ARE STRENGTHED BY IRON GIRDERS.

INFERENCES

LOCALLY AVAILABLE MATERIALS ARE EFFECTIVELY USED AND THE BUILDING HAS A APPEALING CHARACTER.

OPEN AREAS ARE CRUCIAL PART OF THE LAYOUT AND GIVE A DISTINCT IDENTITY TO EACH ZONE.

RELATIONSHIP OF EXTERIOR AND INTERIOR IS MAINTAINED BY LIMITING THE HEIGHT OF THE BUILDINGS.

LITE ZONE (FITNESS CENTRE, SWIMMING POOL, GYM, SPA)

LITE ZONE PROVIDES A RANGE OF SERVICES AND ACTIVITIES TO ITS MEMBERS AND RESIDENTIAL GUESTS. AMONG THE CITY'S FINEST FITNESS FACILITIES IT INCLUDES ONE OF THE MOST COMPREHENSIVE GYMS, A SOOTHING SPA WITH SAUNA, STEAM ROOM & JACUZZI AND A ROOF-TOP SWIMMING POOL.



CASE STUDY :- 2

**BHARATENDU NATYA ACADEMY,
LUCKNOW**

CASE STUDY-2 (LIVE)

BHARATENDU NATYA ACADEMY

INTRODUCTION-

LOCATION - MANOJ PANDEY CHAURAHA ,
LUCKNOW,U.P
TYPE - PUBLIC
YEAR OF - 1975
CONSTRUCTION

DEPARTMENT OF CULTURE, GOVERNMENT OF UTTAR PRADESH ESTABLISHED BHARTENDU NATYA KENDRA IN AUGUST, 1975 AIMING TO IMPART PROFESSIONAL TRAINING IN VARIOUS ASPECTS OF THEATRE. SYSTEMATIC TRAINING IN DRAMATIC ARTS COMMENCED ON 5TH APRIL, 1976. TWO YEAR DIPLOMA COURSE STARTED IN 1981 ALONG WITH INSTITUTE BEING RENAMED AS BHARTENDU NATYA ACADEMY OF DRAMATIC ARTS (BADA) POPULARLY KNOWN AS BNA. FINANCED BY DEPARTMENT OF CULTURE, GOVERNMENT OF UTTAR PRADESH. ACADEMY IS AN AUTONOMOUS BODY

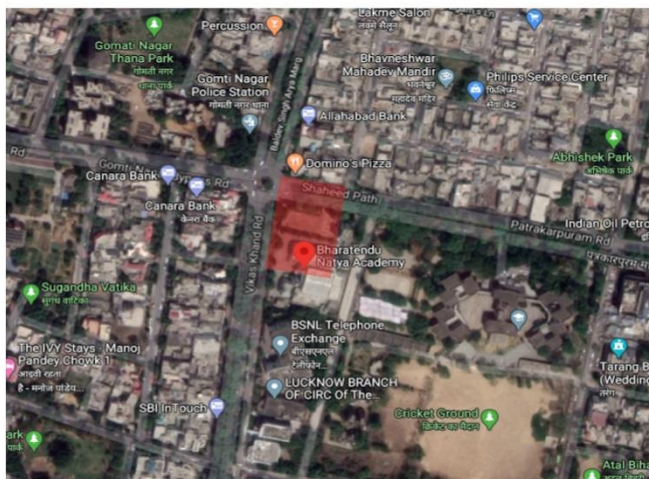
FACILITIES

- 1 THE B.N.A PROVIDES THE FOLLOWING FACILITIES FOR THE YOUTH AND THE PUBLIC
- 2 CENTRAL LIBRARY
- 3 CONFERENCE AND LECTURE HALLS
- 4 SET PREPRATION
- 5 WORKSHOPS FOR DRAMA
- 6 GIRLS/BOYS HOSTEL
- 7 2 AUDITORIUMS WITH CAPACITY.

ACCESSIBILTY

APPROACH-

THE SITE HAS ACCESS FROM ONE SIDES, HAVING THE SHAEED PATH ROAD ON THE NORTH, AND VIKAAAS KHAND MARG ON THE WESTERN SIDE.



OBJECTIVE-

CORE OBJECTIVE OF ACADEMY IS TO IMPART PROFOUND TRAINING IN THEATRE. DURING TWO YEAR PG DIPLOMA COURSE AT THE ACADEMY, AN INTENSIVE TRAINING IS IMPARTED IN INDIAN AND WESTERN THEATRE/DRAMA EMPHASIZING ON ACTING: MOVEMENT, VOICE AND SPEECH, MIME, IMPROVISATION, STAGE-CRAFT: THEATRE ARCHITECTURE, SCENIC AND SET DESIGN, COSTUME AND MAKE-UP DESIGNING, LIGHT DESIGNING, DIRECTION AND PRODUCTION PROCESS. EMINENT THEATRE PERSONALITIES OF NATIONAL AND INTERNATIONAL REPUTE ARE INVITED AS VISITING FACULTY IN ADDITION TO REGULAR FACULTY OF THE ACADEMY.



CASE STUDY-2 (LIVE)

SITE ANALYSIS

LOCATION-

THE BHARATENDU NNATYA ACADEMY IS LOCATED ON THE FRIDGES OF CAPTAIN MANOJ PANDEY CHAURAHA VIKAS KHAND -1 GOMTI NAGAR LUCKNOW.

IT CONTINUES TO BE AN IMPORTANT CENTRE OF GOVERNANCE, ADMINISTRATION, EDUCATION, COMMERCE, TECHNOLOGY, DESIGN, CULTURE, TOURISM, MUSIC AND POETRY.

SITE SURROUNDINGS-

MANOJ PANDEY CHAURAHA WAS NAMED AFTER INIAN ARMY OFFICER CAPTAIN MANOJ KUMAR PANDEY.

A NUMBER OF ,EDUCATIONAL INTERNATIONAL INSTITUTIONS LINE THE ROAD

SITE SURROUNDINGS INCLUDE INSTITUTE OF COST ACCOUNTANTS OF INDIA,BSNL TELEPHONE EXCHAN-GETHE INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA

OBSERVATION-

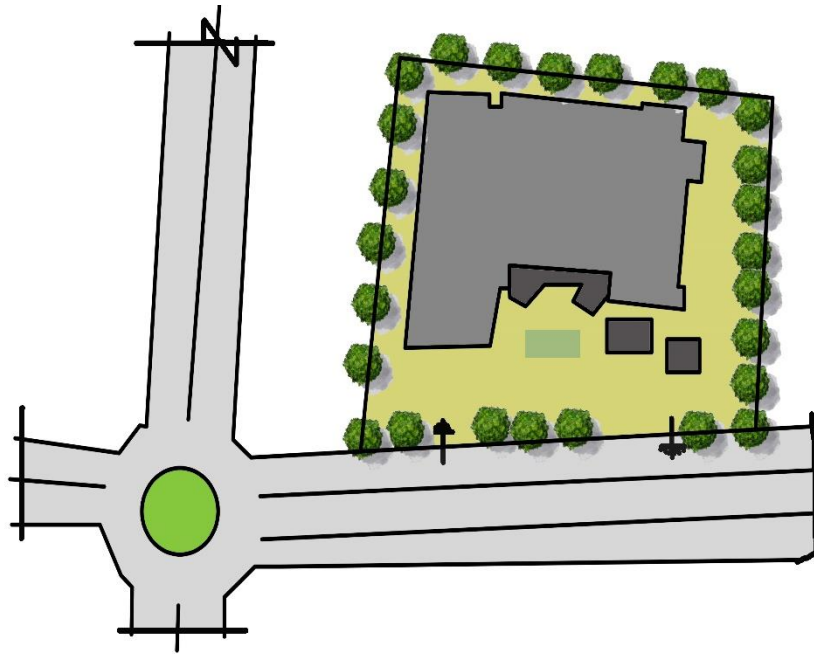
BUILDING HAS TYPICAL CHARACTER, SO IT IMPRESSES THE PASSERBY

THE SITE IS PLACED WITH SITE ACCESS ON THE TWO SIDES AND FROM THE MANOJ PANDEY CHAURAHA

SITE CHARACTER-

TOTAL SITE AREA - 5192 SQMT.

TOPOGRAPHY - PLOT IS SQUARE SHAPED WITH PRIMARILY FLAT TERRAIN.



PROGRAMME AND BLOCKS

BNA IS HOUSED IN ITS OWN FOUR STORIED BUILDING COMPRISING OF STUDIO THEATRE, TWO AUDITORIUMS WITH THE LATEST EQUIPMENTS AND TECHNOLOGY, MODERN CLASS ROOMS, LIBRARY EQUIPPED WITH LATEST BOOKS AND AUDIO-VISUAL AIDS, COMPUTERS WITH INTERNET FACILITY ETC. TO CREATE AN ENVIRONMENT CONDUCIVE TO TEACHING AND LEARNING. PROFESSIONAL REPERTORY HAS ALSO BEEN ESTABLISHED TO PROMOTE THEATRE IN REMOTE AREAS OF THE STATE. IT PERFORMS WITHIN AND OUTSIDE THE STATE IN RURAL AND URBAN AREAS AS WELL.

IN ADDITION TO REGULAR DIPLOMA PROGRAMME, THE ACADEMY ORGANISES VARIOUS THEATRE WORKSHOPS IN DIFFERENT CITIES OF THE STATE TO IMPART THEATRE TRAINING. THESE WORKSHOPS ASSUREDLY CREATE AWARENESS FOR THE THEATRE.

FROM TIME TO TIME ACADEMY ORGANIZES THEATRE FESTIVALS IN ASSOCIATION WITH OTHER NATIONAL INSTITUTES, ACADEMIES AND OTHER CULTURAL CENTRES ALONG WITH DISTRICT ADMINISTRATION TO INTRODUCE NATIONAL AND INTERNATIONAL THEATRE TO THE TRAINEES AND TO ENTERTAIN THEATRE LOVERS.

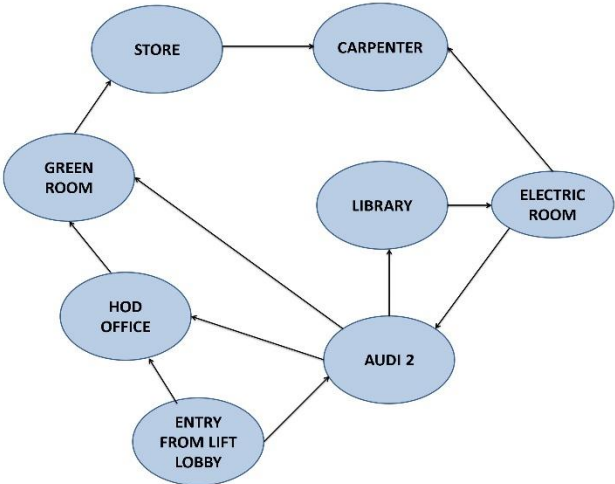
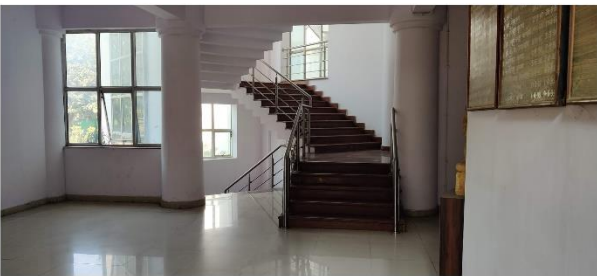
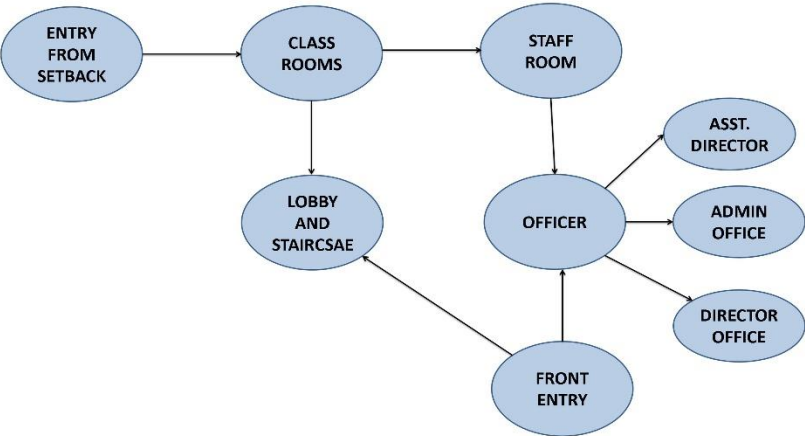
INTRODUCTORY KNOWLEDGE OF THEORY AND PRACTICAL OF FILM AND T.V. PRODUCTION PROCESS IS ALSO IMPARTED TO FINAL YEAR STUDENTS TO MAKE THE TRAINEES AWARE OF THE MEDIA. AFTER COMPLETION OF TWO YEAR DIPLOMA COURSE, ONE YEAR INTERNSHIP IS ALSO PROVIDED TO DESERVING CANDIDATES.

THE BHARTENDU ACADEMY OF DRAMATIC ARTS HAS MADE A MARK IN THE COUNTRY BY ITS ARTISTIC AND CREATIVE PRODUCTIONS. ACADEMY IS STRIDING A STEADY HEADWAY TOWARDS ACCOMPLISHMENT OF ITS OBJECTIVES.

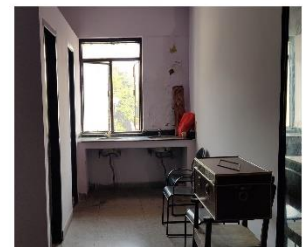
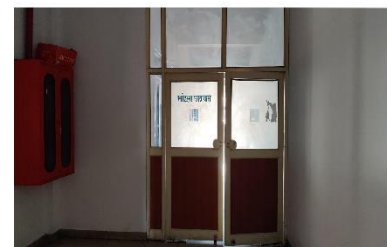
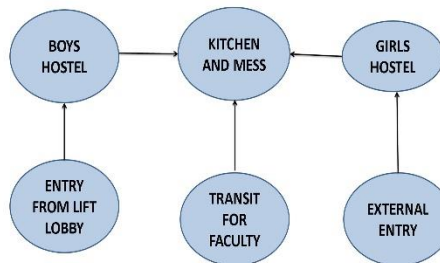
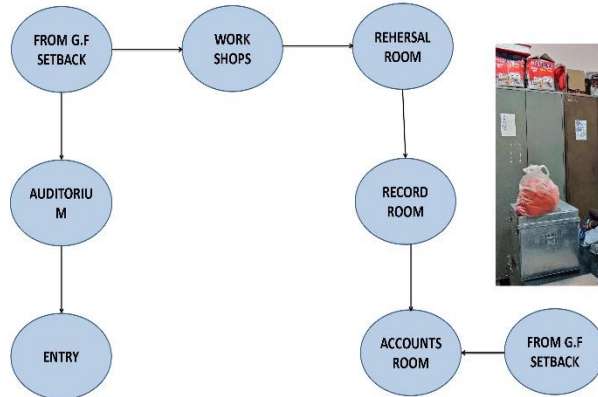


CASE STUDY-2 (LIVE)

ZONING



CASE STUDY-2 (LIVE)



LITERATURE STUDY :- 1

**BHARAT BHAWAN
BHOPAL**

LITERATURE STUDY-1

BHARAT BHAVAN

BHOPAL, INDIA (1975-81)

LOCATION:

JSWAMINATHANMARG,
NEAR UPPER LAKE, BHOPAL,
MADHYAPRADESH, INDIA

ARCHITECT:

CHARLES CORREA

CLIENT:

LEGISLATURE
OF MADHYA PRADESH

SITE DETAIL:

SITE AREA 2 HA
FAR 0.4
BUILTUP AREA 8000 M²

PROGRAM:

MUSEUM OF ARTS
ART GALLERY
WORKSHOP
THEATRES
AMPHITEATRE
ADMIN OFFICE
LIBRARY
CANTEEN

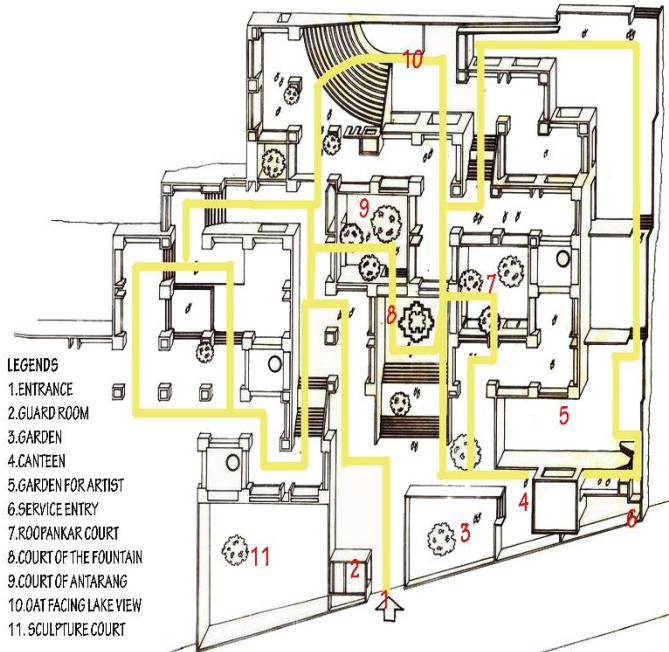
INTRODUCTION:

BHARAT BHAVAN IS AN AUTONOMOUS MULTI-ARTS COMPLEX AND MUSEUM IN BHOPAL, INDIA, ESTABLISHED AND FUNDED BY THE GOVERNMENT OF MADHYA PRADESH. THE ARCHITECT OF BHAVAN IS CHARLES CORREA. OPENED IN 1982, FACING THE UPPER LAKE, BHOPAL, IT HOUSES AN ART GALLERY, A FINE ART WORKSHOP, AN OPEN-AIR AMPHITHEATRE, A STUDIO THEATRE, AN AUDITORIUM, A MUSEUM TRIBAL AND FOLK ART, LIBRARIES OF INDIAN POETRY, CLASSICAL MUSIC AS WELL AS FOLK MUSIC.



RESPONSE TO SITE:

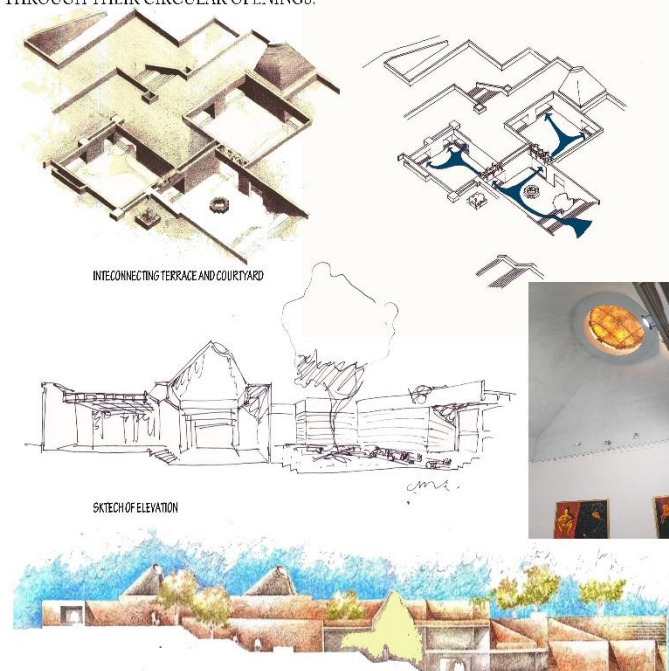
BUILT INTO A HILLSIDE WHICH SLOPE DOWN TOWARD A LAKE, A SERIES OF TERRACES AND COURTYARDS COMPRISE THAT COMPLEX. THE ROUTE THROUGH THE TERRACES ENCOURAGES MOVEMENT DOWN THE SITE'S NATURAL GRADIENT, WITH THE COURTYARDS PROVIDING TRANQUIL SPACES FOR REST AND RELAXATION. THE DIALOGUE BETWEEN THESE TWO COMPONENT CREATES A FLOW OF ENERGY AROUND THE COMPLEX, IN WHAT CORREA DESCRIBED AS A 'RITUALISTIC PATHWAY'.



FEATURES

THE COMPLEX IS SHAPED BY ITS ENVIRONMENT, WITH CLIMATE CONTROL AS PRIMARY FACTOR. HENCE, THE 'OPEN -TO-THE SKY SPACES' IDEALS FOR THE INDIAN WEATHER. THE SUNKUN COURTYARDS PROVIDE SHADE FROM THE SCORCHING MIDDLE SUN, WHILE THE RAISED TERRACES OFFER REFRESHING AIR AND SPACE AT COOLER TIMES OF DAY.

THE SKY IS EVEN INCORPORATED INTO THE INTERIOR SPACES OF THE SITE, WITH THE CONCRETE SHELLS A TOP STRUCTURE ALLOWING LIGHT AND AIR TO POUR IN THROUGH THEIR CIRCULAR OPENINGS.



SITE CONDITION:

THE SITE FOR THIS ART CENTRE IS ON A GENTLY SLOPING HILL OVERLOOKING THE UPPER LAKE, IN SHYMALA HILLS, BHOPAL, MP. THIS SITE BOUND BY ROADS ON THE SOUTH -EAST AND SOUTH- WEST. TOWARDS THE NORTH RUNS THE LAKE WALK P
ATH. THE IMMEDIATE NEIGHBOURHOOD IS PREDOMINANTLY RESIDENTIAL.

CLIMATE:

- > HUMID SUB TROPICAL
- > AVERAGE TEMPERATURE RANGE FROM 16-30 DEGREE DEPENDING ON THE WEATHER
- > HOT SUMMERS, MILD, DRY WINTERS AND HUMID MONSOONS.

CONNECTIVITY AND ACCESS:

THE SITE CAN BE ACCESSED FROM RUSTAM KHAN MARG ON THE SOUTH-EAST. VEHICLES CANNOT ENTER THE SITE AND ONLY A LITTLE PARKING IS AVAILBLE ON THE OPPOSITE EDGE. THE SITE LIES 600 M FROM THE BUSY POLYTECHNIC SQUARE. IT IS 450 M FROM KAMLA PARK ROAD ALONG WHICH RUNS THE BRTS CORRIDOR.

- > 700 M. POLYTECHNIC BUS STOP

LITERATURE STUDY-1

BUILDING PROGRAM

BHARAT BHAVAN IS PROGRAMMED TO CONTAIN VARIOUS CULTURAL FACILITIES LIKE:

- CONTEMPORARY ART GALERIES.
- ROOPNAGAR MEUSEUM OF TRIBAL AND FOLK ART
- ANHAD LIBRARY OF CLASICAL AND FOLK
- VAGARTH LIBRARY OF INDIAN LIBRARY OF INDIAN POETRY
- PRINT SHOP CUM WORKSHOP FOR THE FINE ARTS INCLUDING LITHOGRAPHY AND SCULPTURES
- ASHRAMSTUDIO FOR AN ARTIST-IN-RESIDENCE BHARAT BHAWAN ALSO HOUSES
- ANTARANG INDOOR AUDITORIUM
- RANGMANDAL A REPETORY
- BHARANG OPEN AIR AMPHITHEATRE OVERLOOKING THE LAKE

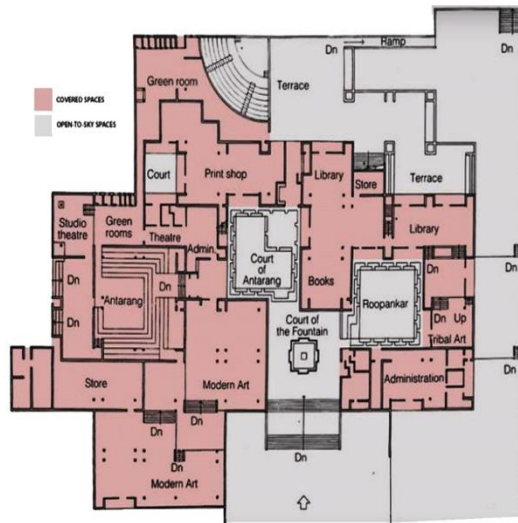
ARCHITECTURAL VISION

THE DESIGN OF THE COMPLEX IS THE PRODUCT OF THE CORREA'S MISSION TO ESTABLISH A MODERN ARCHITECTURAL STYLE SPECIFIC TO INDIA AND DISTINCT FROM EUROPEAN MODERNISM DRAWING OF A PLENTIFUL SOURCE MATERIAL PROVIDED BY A RICH ARCHITECTURAL HERITAGE OF HIS HOME COUNTRY BHARAT BHAWAN CORREA PRODUCED A BUILDING FOR MODERN ERA WHICH ALSO MANAGES TO REMAIN FIRMLY ROOTED IN VERNACULAR TRADITION OF INDIA'S PAST.

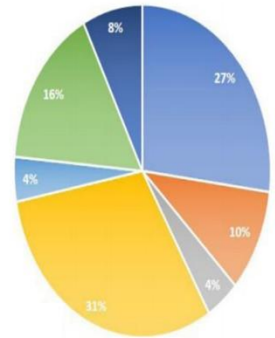
INERENCES

- GREAT EXAMPLE OF RESPONDING TO SITE
- THE TERRACES AND OPEN TO SKY SPACES BIND THE BUILT MASS FOR THE VISITORS
- THE PROJECT IS A SUCCESS AS AA PUBLIC SPACE AND BECOMES ACTIVE IN THE EVENING WITH FAMILIES AND VISITORS FROM THE NEIGHBOURHOOD
- SITE IS ENTIRELY PEDESTRIAN
- MATERIAL USED FOR CLADING -BRICK AND REDSAND STONE LEND A HUMANISING CHARACTER TO THE BUILDING.

SPATIAL ORGANISATION



PLAN SHOWING COVERED AND UNCOVERED SPACES OF THE BUILDING

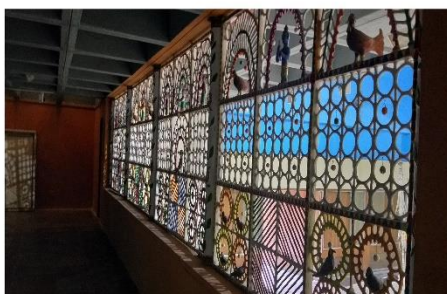


DISTRIBUTION OF VARIOUS PROGRAM COMPONENTS

- GALLERY
- WORKSHOP
- AMPHITHEATRE
- THEATRES
- MUSEUM
- LIBRARY
- ADMIN OFFICE

UPON ENTERING THE VISITOR CAN EITHER FOLLOW THE PATH OF TERRACES CASCADING DOWN TO THE LAKE OR DESCEND TO THE THREE COURTYARD WHICH PROVIDE ACCESS TO THE MAJORITY OF THE CULTURAL FACILITIES FROM THE COURTYARDS. WIDE GLASS PANELED OPENINGS TO THE BUILDING ENSURE THE ARTS PROGRAM IS BOTH LITERALLY AND FIGURATIVELY ACCESSIBLE TO ALL. AT THE BOTTOM OF THE SITE SITS THE AMPHITHEATRE HERE OPEN AIR PERFORMANCES TAKE PLACE WITH LAKE AS BACKDROP.

- THE OTS PATHWAY IS STRUCTURED AROUND THREE COURTYARDS FROM WHICH ONE ENTERS THE VARIOUS FACILITIES
- COURTYARDS AND TERRACES ACT AS A CONNECTORS BETWEEN THE SPACES
- BUILT OPEN SPACES MERGE INTO EACH OTHER
- COURTYARDS CREATE COMMUNAL PUBLIC SPACE WITH THE STEPS AROUND THEIR PERIPHERIES PROVIDING ARTICULATED SEATING TO MEET AND SOCIALIZE



LITERATURE STUDY-1


COMPONENTS	SPACES	NO. USERS	AREA(SQ. M.)	REQUIREMENTS/REMARKS
ARTS CENTER (admin. Block)	Foyer+ lounge	15-20	50	Should have lake view Main office for organizing festival events and activities
	Reception		20	
	Director's office		50	
	p.a. room		15	
	Accounts		50	
	Office	20		
	Toilets		20	
	Store		10	
Conference facilities	Lounge+ info desk		100	Used by the centre during festival time and available for hire rest of the year
	Conference room-2	25	75	
	Store		10	
	Pantry		10	
	Seminar rooms-2	80	150	
Studio/ workshops	Dance studio-2		120	With attached spill out spaces
	Music studio-2		120	
	Painting studio		60	
	Textiles studio		60	
	Drama studio		120	
	Lithography studio		60	
	Photography studio		60	
	Photography lab.		60	
	Sculpture workshop		120	
	Pottery workshop		75	
	Ceramic workshop		75	
	Modelling workshop		75	
Library	Circulation desk, 12 reading carrels, periodicals		100	Academic zone Desirable-north light
	20 comp. terminals		60	
	Stack		150	
	Room(20000 books)			
	Photocopy		10	
	Store		20	
	Office		20	
			360	
Exhibition galleries Art galleries	Galleries		650	Includes display galleries for works done in the center.
	Security+ office		50	
	Curator's room+ office		60	
	Workshop+ storage		100	
RETAIL Retail shops	40@20 sq.m.		800	To be developed as a mix of retail
Restaurants:2	Seating: @2/ppl.	75	150	With lake view
	Kitchen: @0.8/ppl		60	
	Service yard: @0.3/ppl		22	
Restaurants:2	Seating: @2/ppl.	50	100	
	Kitchen: @0.8/ppl		40	
	Service yard: @0.3/ppl		15	
			760	
Auditorium(300)	Foyer		250	Should open out into spill out area Special acoustical treatment
	Admin. Office	15-20	40	
	Rehearsal room	20-25	60	
	Green room	20	60	
	Toilets		50	
	Hall	300	560	
			1000	
Theatre(500)	Foyer	20-25	350	No secure area, retail outlets With access to canteen Doors 3-4 m wide, extra height Controlled environment
	Ticket office		10	
	Toilets		70	
	Office	40	50	
	Rehearsal room	20	60	
	Dressing room	40	60	
	Stage workshop	5	60	
	Loading/unloading		20	
	Projection room	2	40	
	Auditorium	500	800	
			1560	
7100+35% circulation =9785 sq. m.				FAR achieved is 0.98

LITERATURE STUDY :- 2

N.C.P.A MUMBAI

LITERATURE STUDY-2

NATIONAL CENTRE FOR THE PERFORMING ARTS

General information	
Type	Arts, complex
Architectural style	(Then International Style)
Location	Mumbai, India
Address	National Centre for the Performing Arts, NCPA Marg & Dorabji Tata Road, Nariman Point, Mumbai -40001, India.
Coordinates	 18.9251°N 72.8206°E
Construction started	1981
Completed	1985
Opened	1986
Height	46.28m
Technical details	
Structural system	Concrete Frame
Design and construction	
Architect	Philip Johnson-concept part; Principal architect



THE NATIONAL CENTRE FOR THE PERFORMING ARTS (NCPA) IS A MULTI-VENUE, MULTI-PURPOSE CULTURAL CENTRE IN MUMBAI, INDIA, WHICH AIMS TO PROMOTE AND PRESERVE INDIA'S HERITAGE OF MUSIC, DANCE, THEATRE, FILM, LITERATURE AND PHOTOGRAPHY. IT ALSO PRESENTS NEW AND INNOVATIVE WORK IN THE PERFORMING ARTS FIELD. THE CENTRE WAS FOUNDED IN 1969 BY JRD TATA AND DR. JAMSHED BHABHA,

THE NCPA IS ALSO THE HOME OF THE SYMPHONY ORCHESTRA OF INDIA, WHICH WAS ESTABLISHED BY NCPA IN 2006.[2] IN 2010 THE ORCHESTRA PERFORMED BEETHOVEN'S 9TH SYMPHONY IN MOSCOW AT THE 5TH WORLD SYMPHONY ORCHESTRA FESTIVAL - THE FIRST TIME AN ORCHESTRA FROM INDIA HAD PERFORMED THERE.

ON DECEMBER 29, 2018 NCPA ENTERED ITS GOLDEN JUBILEE YEAR.[3] IT IS TO UNDERGO RENOVATIONS TO IMPROVE THE ACOUSTICS AND OVERALL EXPERIENCE IN 2019

PRINCIPAL AIMS AND OBJECTIVES

TO ESTABLISH A NATIONAL CENTRE FOR THE PRESERVATION AND PROMOTION OF CLASSICAL, TRADITIONAL AND CONTEMPORARY PERFORMING AND VISUAL ARTS.

TO ESTABLISH, EQUIP AND MAINTAIN SCHOOLS, AUDITORIA, LIBRARIES, ARCHIVES, MUSEUMS, STUDIOS, WORKSHOPS AND OTHER FACILITIES NECESSARY TO FULFIL THE ABOVE OBJECTIVES.

TO DISSEMINATE KNOWLEDGE, PROMOTE APPRECIATION, PROVIDE TRAINING AND SPONSOR OR UNDERTAKE SCIENTIFIC RESEARCH IN THESE FIELDS WITH THE OBJECTIVE OF FURTHER DEVELOPMENT BY ENCOURAGEMENT OF INNOVATION WITHIN INDIA AND BY INTERACTION WITH THE ARTS OF OTHER COUNTRIES.

PERFORMANCES

THROUGHOUT THE YEARS NCPA HOSTED MANY PERFORMANCES INCLUDING CLASSICAL, TRADITIONAL AND CONTEMPORARY PERFORMING ARTS IN DANCE, THEATRE, AND MUSIC. NOTABLE INDIAN PERFORMERS WHO PERFORMED AT NCPA

NCPA HAS ALSO ATTRACTED MANY INTERNATIONAL PERFORMERS AND OTHER BRITISH COUNCIL COMMISSIONED THEATRE PRODUCTIONS.

FACILITIES AT THE SITE

PIRAMAL ART GALLERY

READING AND LISTENING LIBRARIES

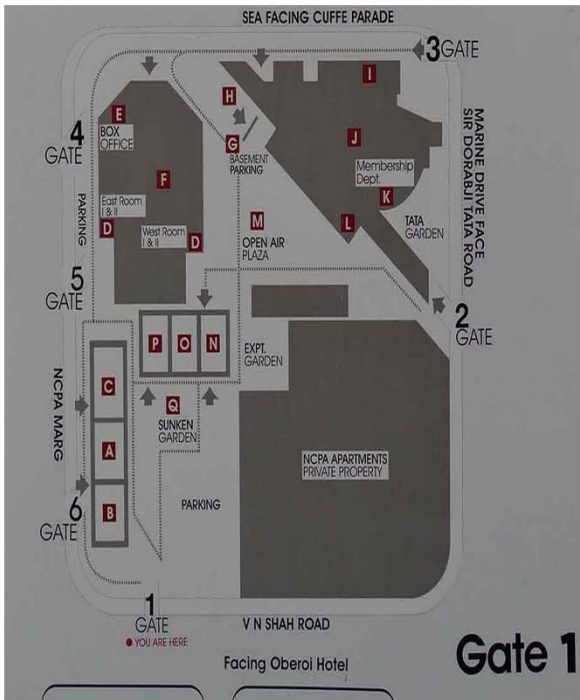
STUDIO FOR ARCHIVAL DOCUMENTATION OF DANCE, DRAMA AND MUSIC

TEACHING AND RESEARCH BLOCK

COMPUTERISED MUSIC RESEARCH LABORATORY
AUDIO-VISUAL ARCHIVAL VAULT WITH OVER 4,000 HOURS OF RECORDING AND THEATRE RESEARCH MATERIAL, AND A COMPUTERISED DATABANK FOR EASY RETRIEVAL



LITERATURE STUDY-2



- A. CORPORATE OFFICE
- B. LIBRARY AND STUART-LIFF COLLECTION
- C. LITTLE THEATRE
- D. WEST & EAST ROOM 1 & 2
- E. BOX OFFICE
- F. JAMSHED BHABHA THEATRE
- G. BASEMENT PARKING
- H. CAFETERIA
- I. SEA VIEW ROOM
- J. TATA THEATRE
- K. MEMBERSHIP DEPARTMENT
- L. AMADEUS
- M. CENTRAL OPEN AIR SPACE
- N. PIRAMAL ART GALLERY
- O. EXPERIMENTAL THEATRE
- P. DANCE THEATRE GODREJ



INFERENCES

THE SEATING AT ALL THE FIVE THEATRES WAS ARRANGED KEEPING IN MIND THE ACOUSTICS AND PURPOSE OF EACH AUDITORIUM (MUSIC, DANCE, PLAYS, ETC).

THE NCPA WAS BUILT ON LAND RECLAIMED FROM THE SEA.

THE JAMSHED BHABHA THEATRE BOASTS OF A 100-YEAR-OLD STAIRCASE IN THE FOYER. MADE OF HIGH-QUALITY CARRARA MARBLE, IT WAS SHIPPED FROM ITALY AND ORIGINALLY BELONGED TO THE PETIT HALL IN MALABAR HILL. IT REMAINED IN NCPA'S WAREHOUSE FOR 40 YEARS, AFTER WHICH IT WAS RE-ASSEMBLED AND ADDED TO THE FOYER.

THE NCPA HAS AN EXTENSIVE LIBRARY OF MUSIC AND BOOKS. THE STUART-LIFF LIBRARY HAS 11,000 LPS AND 6,000 BOOKS ON OPERA AND CONCERTS.

THE TATA THEATRE BOASTS OF A MOVABLE PIPE ORGAN (THE ONLY ONE IN THE CITY), WHICH WAS FULLY RESTORED IN 2013 AT A COST OF RS 22 LAKH. IT IS MOUNTED ON A PLATFORM AND STORED BACKSTAGE WITH THE PROPER CLIMATE-CONTROLLED SYSTEM.

THE TATA THEATRE HAS AN AC PLANT LOCATED IN THE BASEMENT (APPROXIMATELY 30-FEET BELOW SEA LEVEL) TO PREVENT THE NOISY MACHINERY FROM INTERFERING WITH ACOUSTICS.

THE TATA THEATRE ALSO HAS PYRAMID POP-UP STRUCTURES ON THE CEILING, WHICH ENSURE THAT SOUND IS EVENLY DISTRIBUTED AND PREVENTS HOTSPOTS (EXTREMELY HIGH OR LOW SOUND LEVEL) IN THE AUDITORIUM.

THE MUSICAL AUDITORIUMS ARE DESIGNED IN SUCH A WAY THAT THEY REQUIRE NO ADDITIONAL AMPLIFICATION.

THE AUDITORIUM DOORS ARE THICK AND FILLED WITH SAND TO PREVENT AIRBORNE NOISE FROM ENTERING THE HALL.

AT THE JAMSHED BHABHA THEATRE, EVERY SEAT IS OPTIMAL TO VIEW THE PERFORMANCE. AT THE EXPERIMENTAL THEATRE



LITERATURE STUDY-2

THEATRES

Jamshed Bhabha theatre

Seating capacity: 1109 Seats

Stage	
Stage entry	2 Nos. (Stage Right & Left)
From east & west foyer	
Floor	Hardwood timber flooring on MS framing (No traps, No revolve)
Size	
(Behind house-curtain)	23.7m (w) x 14.6m (d)
Top-of-stage from auditorium level	1m
Orchestra Pit	
Forestage orchestra elevator	19m (w) x 4m (d) : travel -2.9m (below stage), 0.0m (auditorium level) to +1m (Stage level); locking @ 400mm increments (9)
Capacity	60 musicians
Below-stage pit, fixed portion	15.4m (w) x 4.2m (d) x 3.1m (h)

Orchestra Shell
An orchestra shell (timber) suitable for 90 musicians can be erected on stage with prior notice; requires two working shifts for erection and one shift for dismantling

Dimensions	
Max. height	9.3m (down stage)
Max. width	16.7m (down stage)
Min. height	4.2m (up stage)
Min. width	12.4m (up stage)

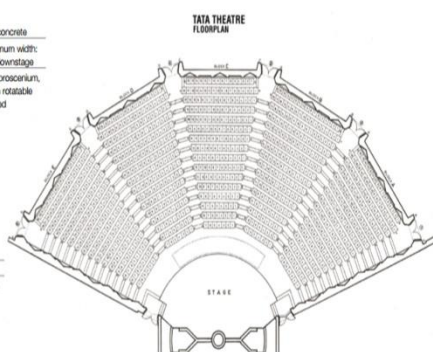
Tata Theatre

Seating capacity: 1010 Seats

Stage	
Floor	Hardwood timber flooring on concrete
Size	9m (d) x 17.5m (w) at its maximum width; height 3m at upstage; 6m at downstage
Type	Semi-circular thrust stage, no proscenium, no house-curtain; inner portion rotatable (4.7m radius); outer portion fixed

Dressing Rooms	
Ground floor:	Solo rooms 4 (11.6 sq.m. each)
Mezzanine:	Group rooms 2 (23 sq.m. each)
Note: Each room furnished with wardrobe, attached toilet with shower and drinking water facilities	

Miscellaneous Spaces	
Foyers at two levels	
Size	77m (d) x 7.5m (w) Height 6m at upper lobby Height 9.6m at lower lobby
Courtyard garden (separate venue)	450 sq.m.
Rehearsal room (separate venue)	82 sq.m.
Car parking	Basement and open spaces Available on a first come first served basis



Rotatable Stage	
Operation	Electrically controlled
Rotation	180°
Rotation time	80 sec.

Experimental Theatre

Seating capacity: 285 Seats

Stage	
9.7m (w) x 7.3m (d) x 0.7m (h) maximum	
Variable configuration; modular wooden platforms	

Floor	
Concrete floor	19.20m (d) x 19m (w)
Floor-to-grid height	(Catwalk) 9m (h), average

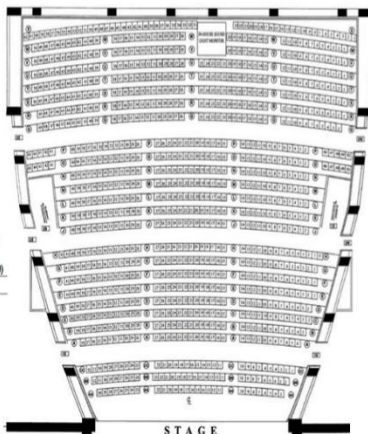
Dressing Rooms (with toilets & showers)

Ground floor 2 (7 sq.m. each)	
First floor 1 (20 sq.m.)	

Miscellaneous Spaces

Foyer (non A/C)	
Size	425 sq.m.; height 3m

JAMSHED BHABHA THEATRE FLOORPLAN



Godrej dance theatre

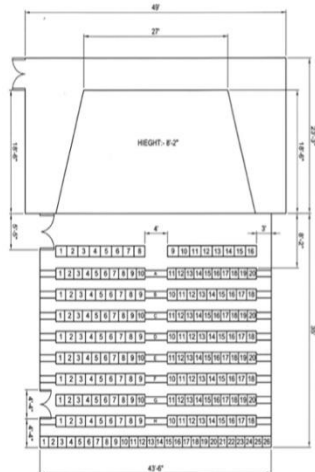
Seating capacity: 185 Seats

Stage	
Floor	Timber flooring on MS slotted angle frame; 0.65m from auditorium level
Wing-to-wing	9m (w) x 5.6m (d) height: 2.34 m
Wing space	
Stage-right	3.55m (w) x 6.7m (h) height: 2.34m
Stage-left	2.2m (w) x 6.7m (h) height: 2.34m
Cross-over space	14.9m (d) x 1.1m (w) height: 2.34m
Proscenium opening	9.55m (w) x 2.40m (h)
House curtain	Maroon velvet; motorized travel

Dressing Rooms	
Ground floor	2: 13.8 sq.m. & 17 sq.m. with a common lobby of 19.6 sq.m.

Miscellaneous Spaces	
Foyer (non-A/C)	
Size	158 sq.m.

GODREJ DANCE ACADEMY THEATRE FLOORPLAN



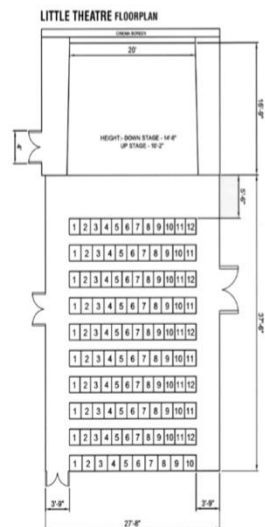
little Theatre

Seating capacity: 114 Seats

Stage	
Floor	Timber flooring on concrete slab; 0.8m (h) from auditorium level. Size with side wings and 6.65m (w) x 5.47m (d) x back concertina flat 3.96m (h) downstage 3.08m (h) upstage
Wing space	
Stage-right	1.1m (w) x 6m (h) x 3.08m (h)
Stage-left	1.0m (w) x 6m (h) x 3.08m (h)
Cross-over space	8.7m (d) x 0.6m (w) x 3.08m (h)
Proscenium opening	5.85m (w) x 3.96m (h)
House curtain	Maroon velvet; motorized travel
Note 1: Width, wall to wall 8.68m	
Note 2: Space in front of house-curtain 0.53m	

Dressing Rooms	
Ground floor	1: 8.5 sq.m.
First floor	1: 15.8 sq.m.

Miscellaneous Space	
Foyer (air-conditioned)	
Size	13.3m (d) x 5.6m (w) x 6m (h)
Area	74.5 sq.m.

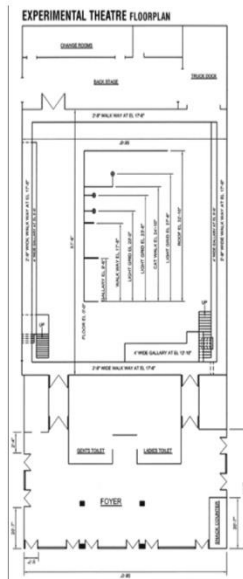


AUDITORIUM INVERTED CEILING PLAN

~DIVIDED INTO THREE PARTS THE CEILING IN THE MIDDLE CAN DOUBLE UP FOR THE EXTENDED STAGE OR AUDIENCE

~THE CEILING OF THE STAGE AND THE ADJACENT ARE LAID AT AN ANGLE WHILE THE CEILING OF THE SEATING AREA IS SUSPENDED 2-3 M BELOW THE ACTUAL CEILING SURFACE

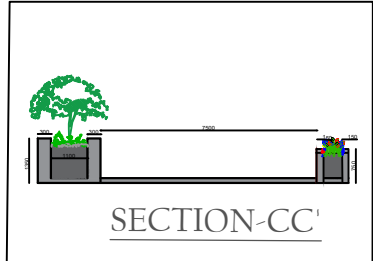
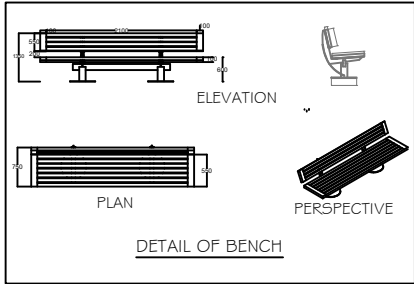
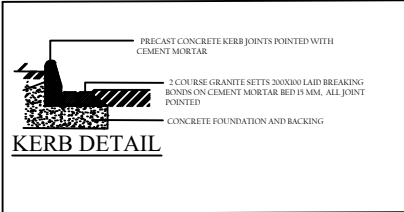
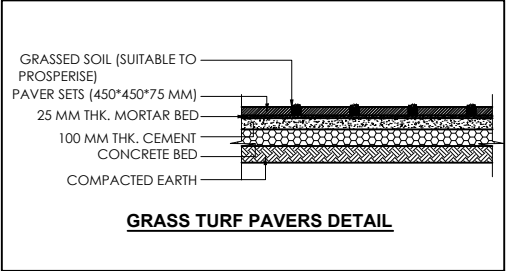
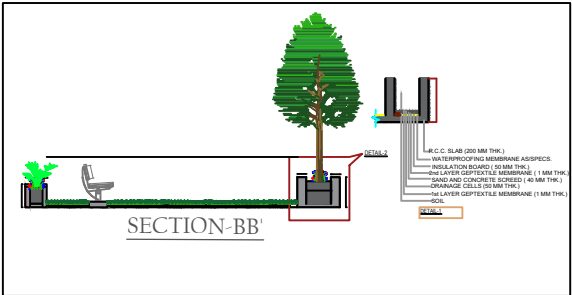
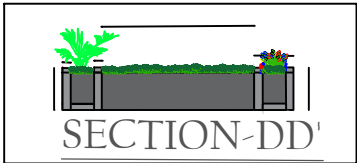
~THE GRID LIKE CEILING IS EQUIPPED WITH CENTRALISED AIR CONDITIONING SYSTEM AND LIGHTING FIXTURES SPREAD ALL OVER COVERING THE SEATING AREA



LANDSCAPE



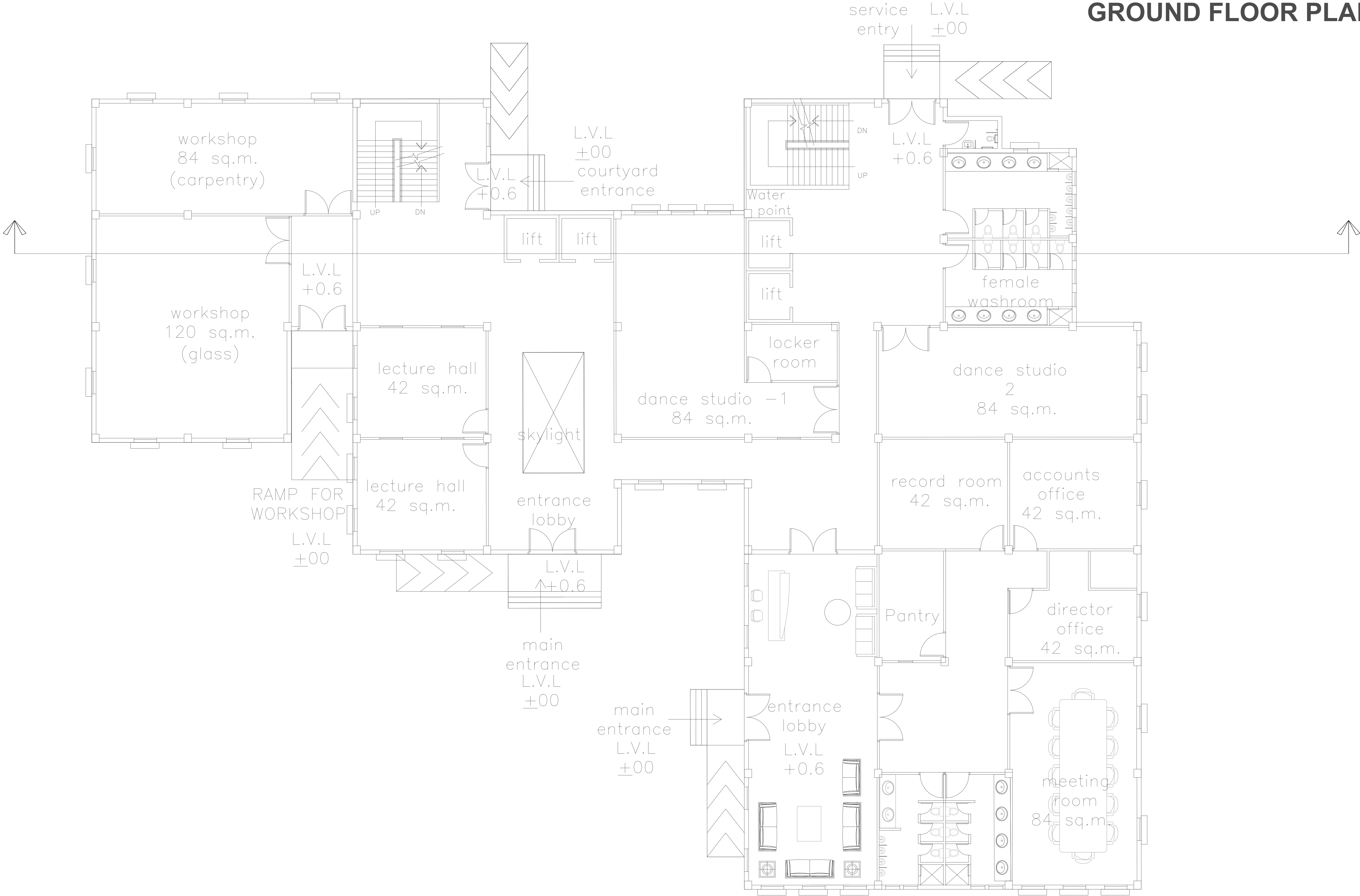
LEGEND	SYMBOL	PLANT NAME	PROPOSED QUANTITY	PROPOSED QUANTITY
		DELONIA REGIA	100000 C/C	8000, 10000
		ALSTONIA SCHOLARIS	10000 C/C	20000, 20000, 8000
		CESTRUM NOCTURNUM	7000 C/C	4000, 2000, 5000
		CYDAS REVOLUTA	8000 C/C	5000
		GOLDEN DURLANTA	8000 C/C	5000
		CASSIA NODOSA	10000 C/C	12000, 8000
		IRIS	SPECIFIC PLACE	300, DENSE



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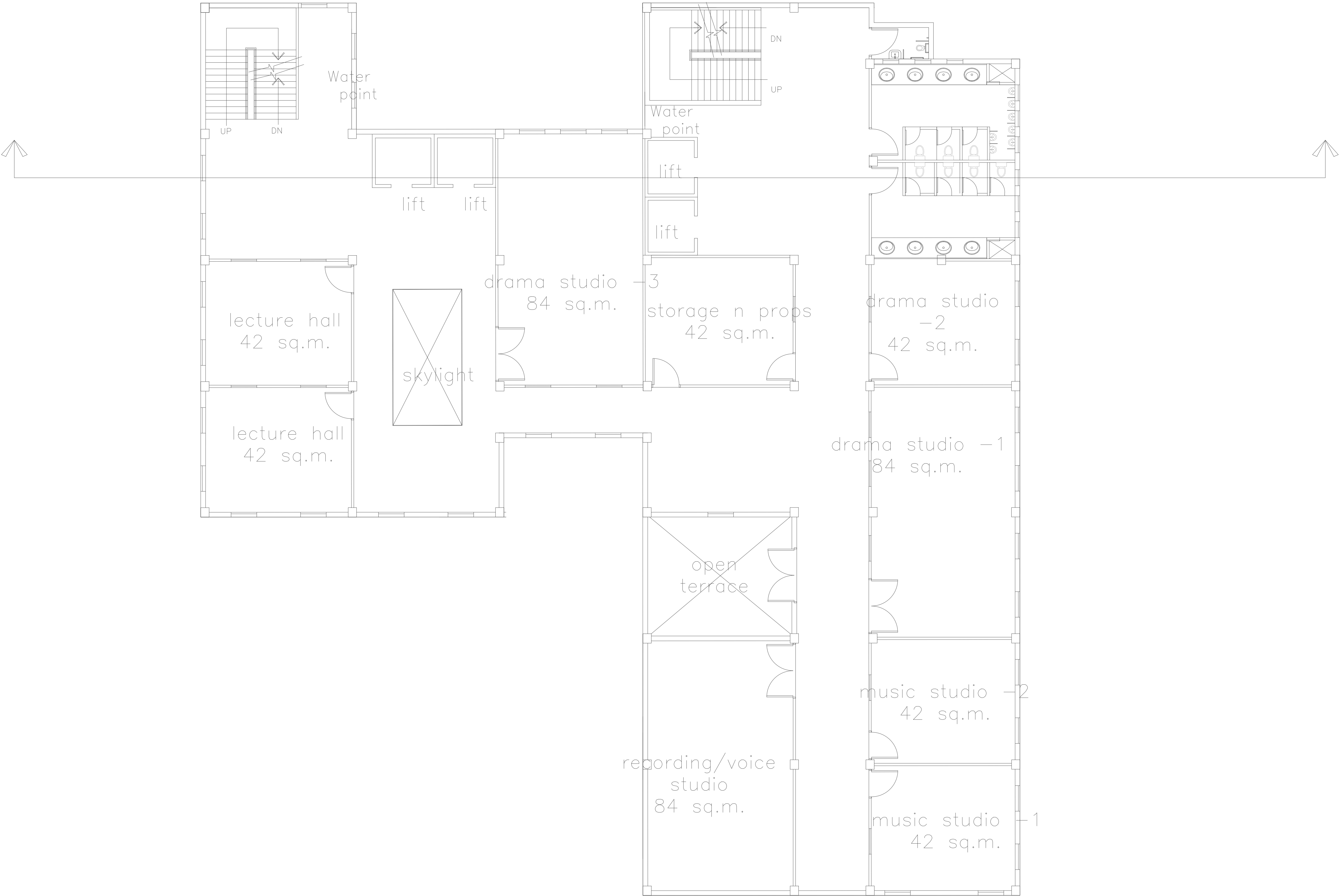
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GROUND FLOOR PLAN



INSTITUTIONAL BLOCK

FIRST FLOOR PLAN



INSTITUTIONAL BLOCK

NATYA ACADEMY AND CULTURAL COMPLEEX , GURUGRAM

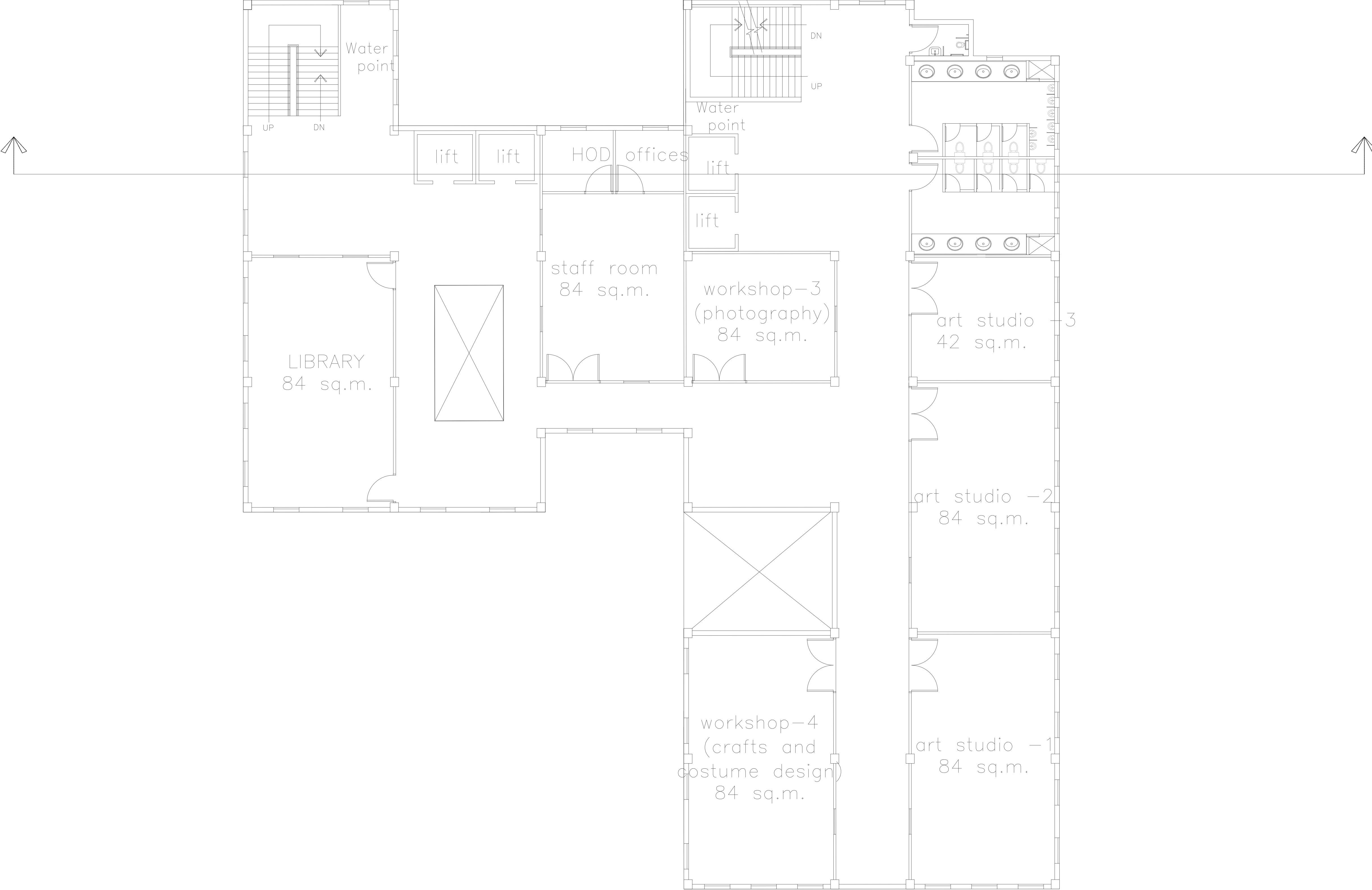
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THESIS YEAR - 2019/20

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SECOND FLOOR PLAN



INSTITUTIONAL BLOCK

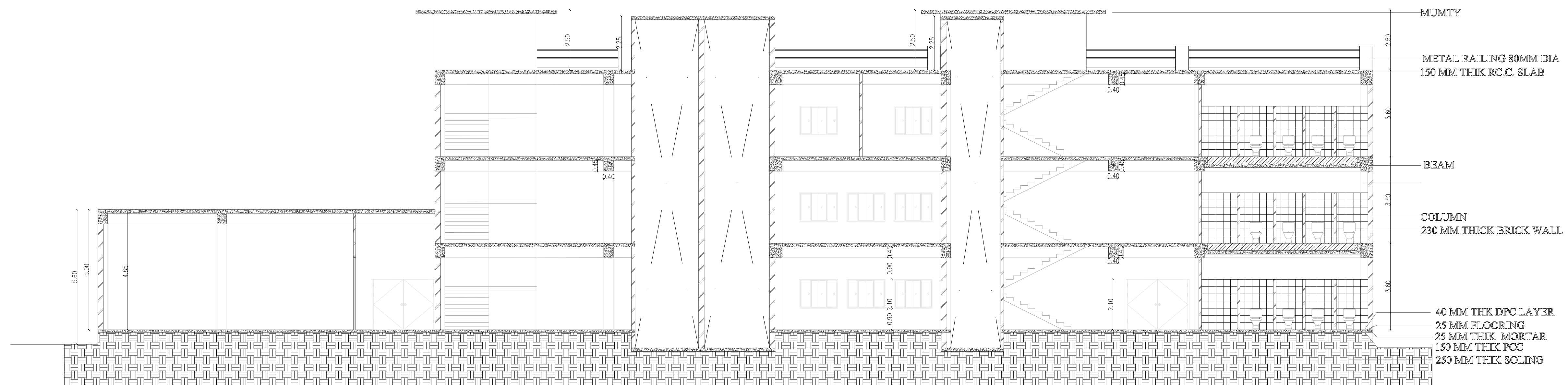
NATYA ACADEMY AND CULTURAL COMPLEEX , GURUGRAM

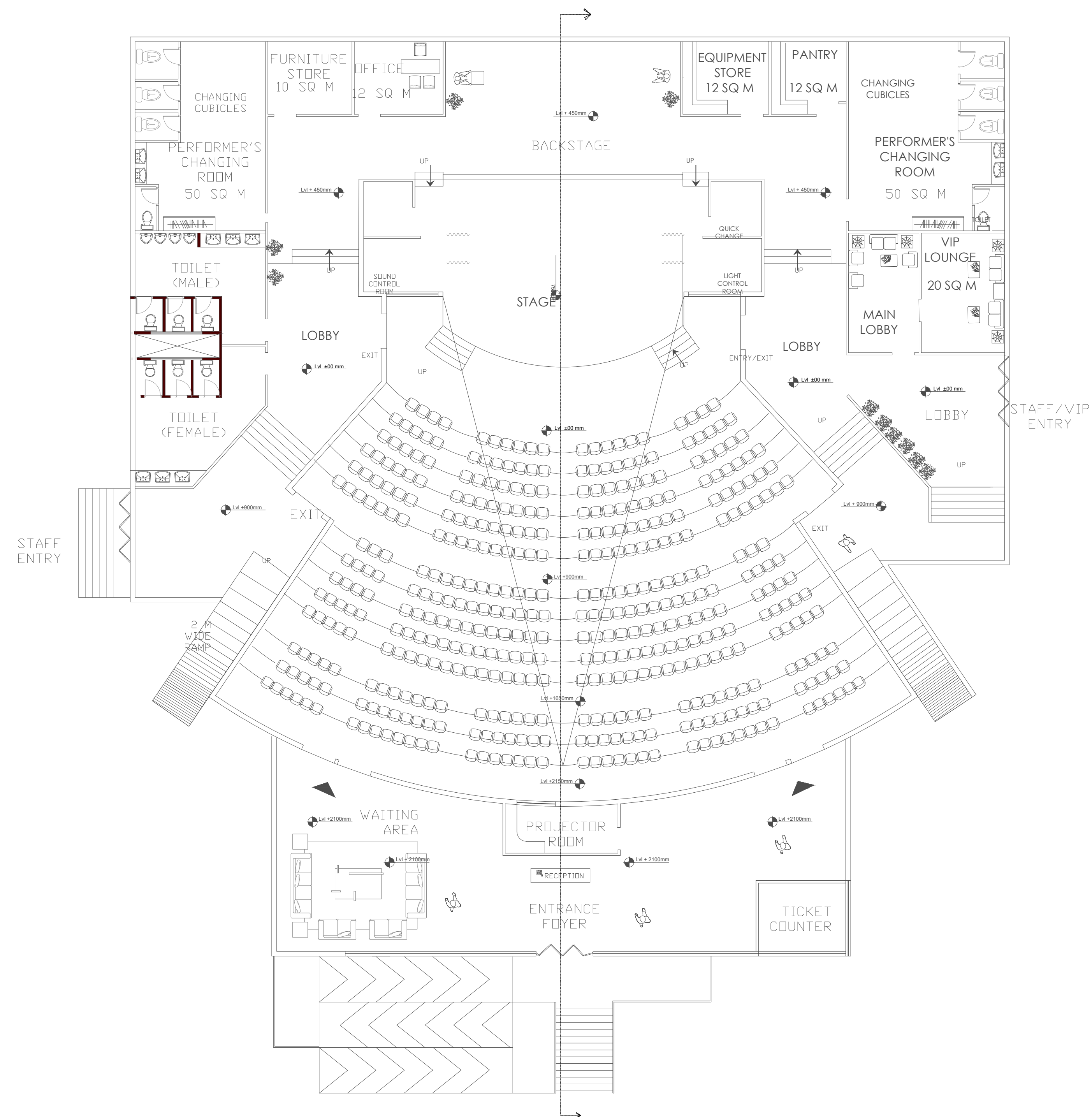
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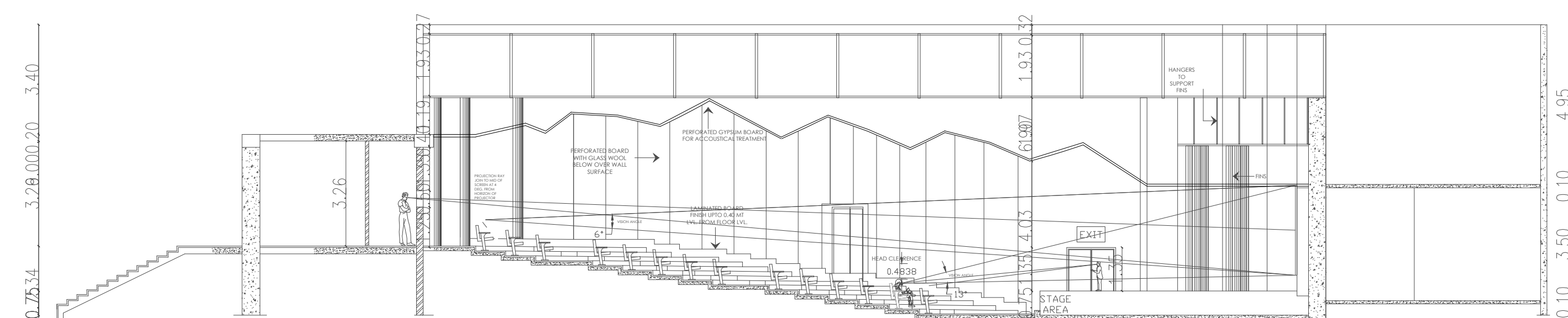


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SECTION AT YY'



GROUND FLOOR PLAN



SECTION AT RR'

AUDITORIUM

NATYA ACADEMY AND CULTURAL COMPLEEX , GURUGRAM

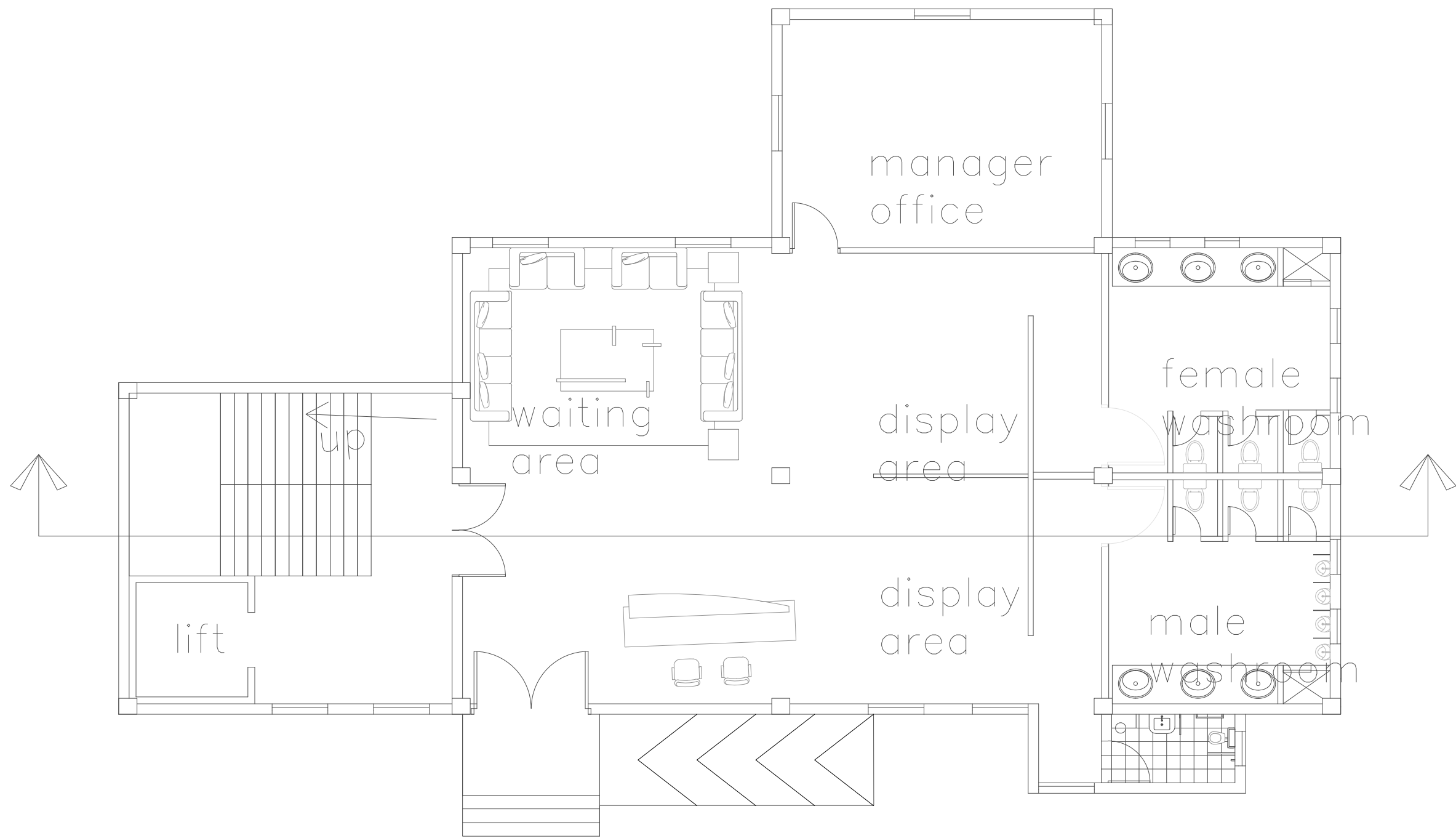
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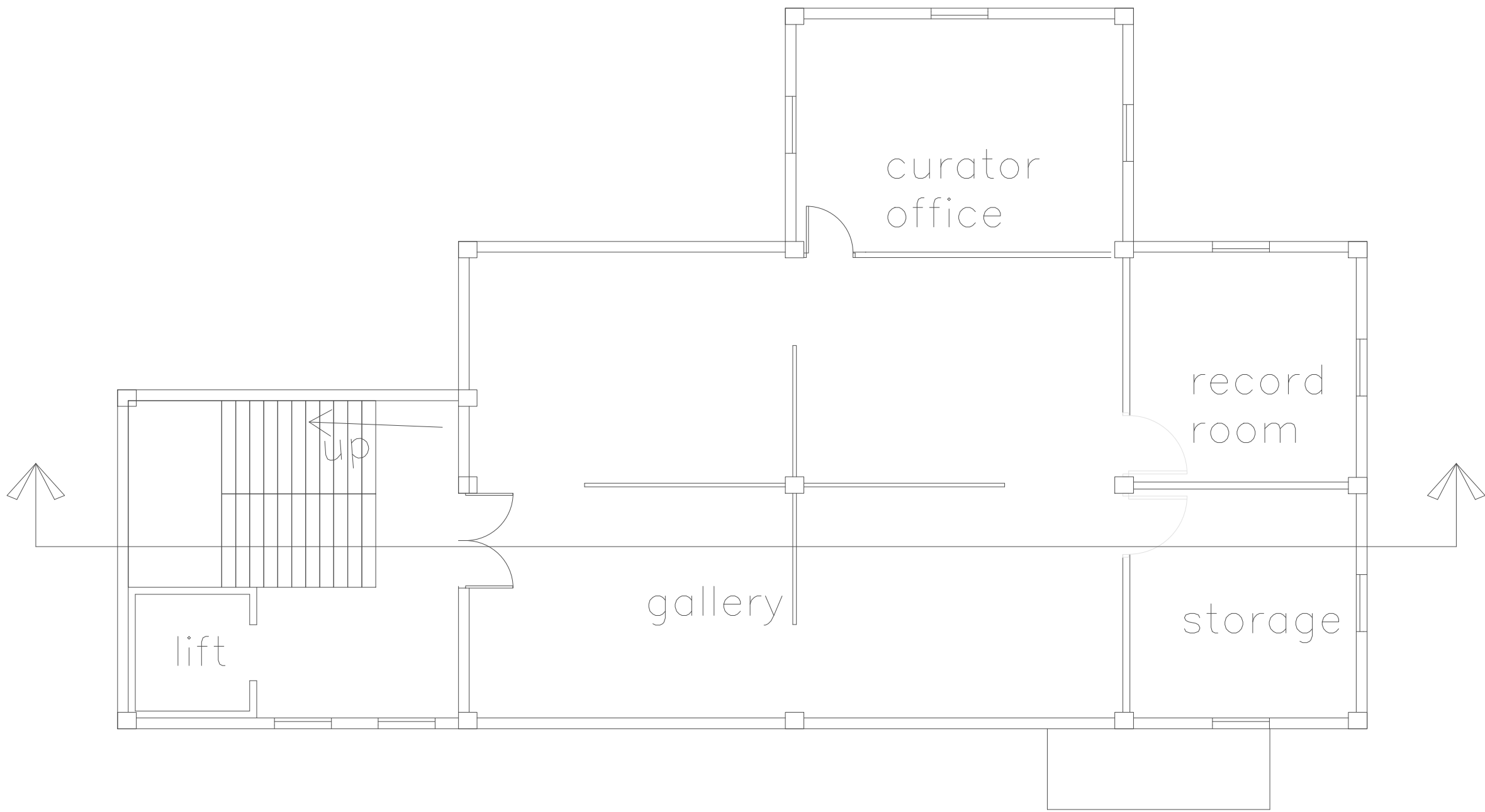
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FLOOR PLANS

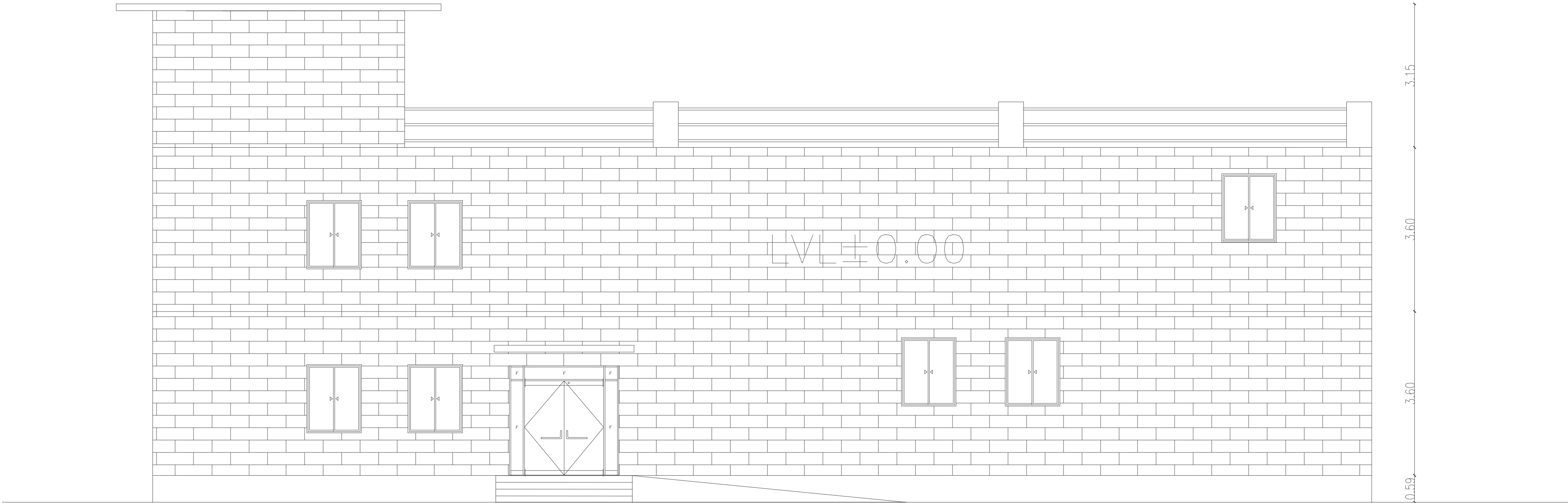


GROUND FLOOR PLAN

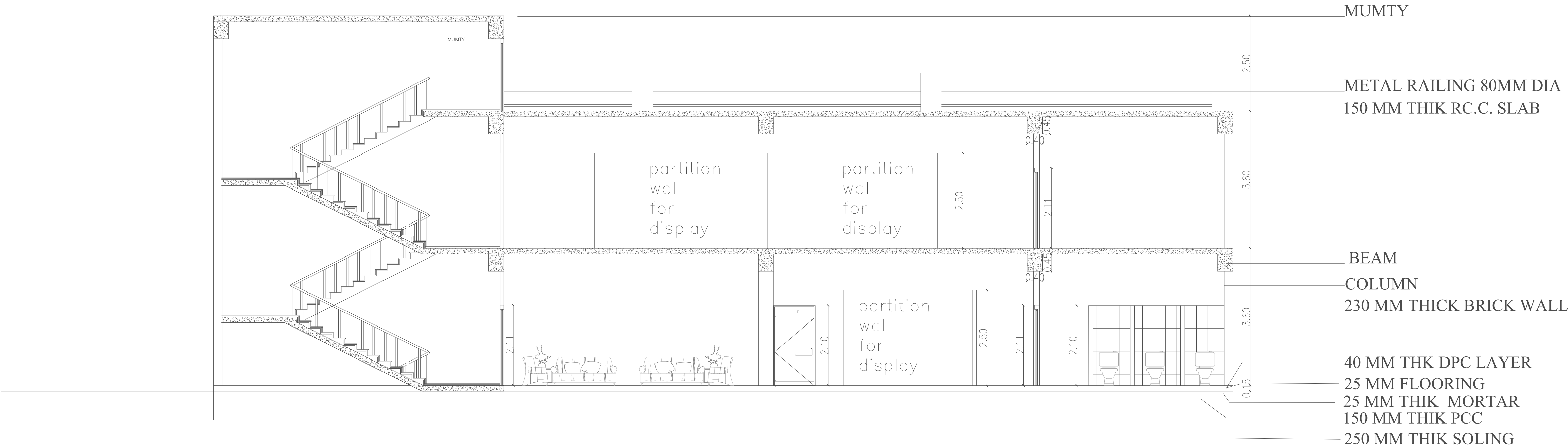


FIRST FLOOR PLAN

EXHIBITION BLOCK



FRONT ELEVATION



SECTION AT XX'

INSTITUTIONAL BLOCK

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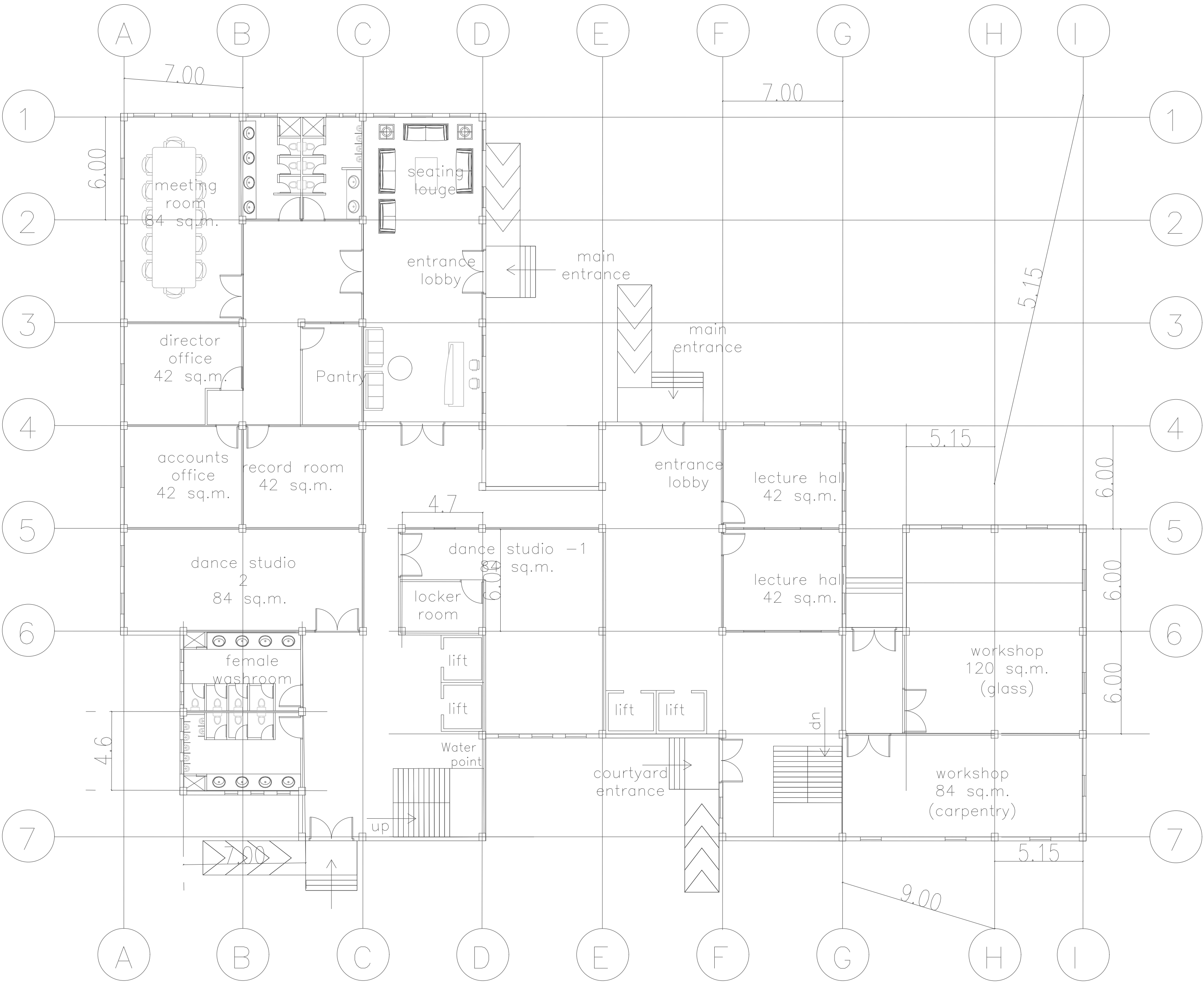
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GRID PLAN



INSTITUTIONAL BLOCK

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TOILET AND STAIRCASE DETAIL

