



THESIS REPORT ON
“----DRUG REHABILITATION CENTRE----, ----SHALIMAR BAGH, DELHI----“

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

BACHELOR OF ARCHITECTURE
BY
(MOHD OVAISH)
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THESIS GUIDE
(AR. GHANSHAYM YADAV)

SESSION
2022-2023

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“------(drug rehabilitation centre)-----
----, -----(Shalimar bagh, 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.

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Certificate of thesis submission for evaluation

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3. Thesis Title :
4. Degree for which the thesis is submitted:
5. Faculty of University to which the thesis is submitted: Yes / No
6. Thesis preparation guide was referred to for preparing the thesis. Yes / No
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8. The content 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 the sources used have been cited appropriately Yes / No
11. The thesis has not been submitted elsewhere for a degree. Yes / No
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| S.no | TOPIC | PAGE NO. |
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SYNOPSIS

01. DRUG REHABILITATION CENTRE



INTRODUCTION:

Drug Abuse and addiction are spreading like cancer among the youth of India. The number of deaths and crimes related to drug consumption and its abuse is on the rise. Therefore, the need of the hour to eradicate this problem is to build new and efficient drug treatment and rehabilitation centres.

Rehabilitation is a process and as a treatment is not given much importance in our society. With this concept in hindsight, much of the established infrastructure is not built around the holistic treatment of the people seeking help.



The central idea of the design is to integrate natural, spiritual and physical treatments so that anyone who is undergoing the process, is provided with a holistic treatment. The use of open spaces in the project is to overcome the closed and confined spaces which are existing in the currently established facilities.

AIMS & OBJECTIVES:

AIM:

- This project aims to design a drug treatment centre where the built structures and landscape designs can accelerate the healing of the patient. This thesis aims to explore how architecture can optimize the healing process through the senses, community and spiritual methods.

OBJECTIVES:

- To understand the various spatial needs to make spaces healing.
- To create Co-living spaces for the patients, promoting peer learning and avoid isolation.
- A merger of open spaces with closed spaces and getting nature into the built-up environment, considering climatic conditions
- Ensuring the security of the patients in the center by design.
- Formation of interactive and community spaces the surroundings through innovative landscape design.
- To create a therapeutic environment through architecture to reduce the withdrawal symptoms anxiety and relapse rate of patients.

SCOPE & LIMITATIONS:

- The facility has the prime focus on holistic healing using natural and built spaces. Focussing on co dependent methods and not just a singular approach
- The area of study is limited to Delhi only.
- The project shows the one of the methods of healing which can be used by all, irrelevant of age, sexuality, region or economic backgrounds of people.



Drug addiction treatment and rehabilitation centre is specialized healthcare dedicated to improving, maintaining or restoring physical strength, cognition and mobility of the addicts, by the help of counselling sessions by the experts and trained professionals to improve their physical and mental strength. It would eventually help people gain greater independence, self-confidence and strength to live life without the substance abuse.

NEED IDENTIFICATION:

- The current population of Delhi is 1.9 crore and combining the population of NCR it is 4.41 crore. As the population is increasing the number of drug addicts increases along with it. Unfortunately, there are only 15 De-addiction centres run by the government that provides expert, client-specific addiction treatment and counselling and there is a need to build new rehabilitation centres to cater to the maximum number of people.
- The none of the De addictions centres provide rehabilitation facility to the patients, as most of them are based on the allopathic model relying solely on medicinal treatment for the patients and importance of physical strength building, confidence-boosting and mental strength to not consume drugs again are neglected.
- Many rehab centres are located in existing renovated buildings or any operational government hospital, rather than a new construction project which is specifically designed for the rehabilitation facility.

Thus, all these factors contribute to the need for building a Drug Rehabilitation centre in Delhi.

REQUIREMENTS:

- Reception and Waiting area
- Administration block
- Consultation/Examination rooms
- Assessment/Interview rooms
- Physiotherapy spaces
- Speech and Language therapy spaces
- Garden/Outdoor spaces
- Patient Accommodation
- Staff Accommodation
- Library/Information centre
- Support Spaces
- Open Interactive Spaces
- Parking area



CASE STUDIES:

- National Drug Treatment Centre, AIIMS
- Mukhtangan Rehabilitation Centre

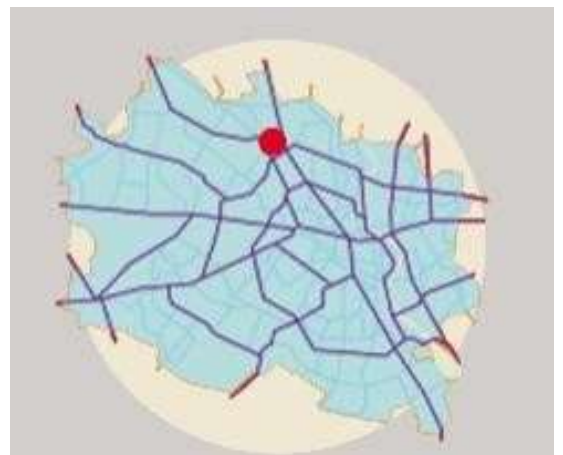
LITERATURE STUDIES:

- Sanjivini, New Delhi

ABOUT SITE:

Shalimar Bagh block C and D, Delhi

Delhi, city and national capital territory, north-central [India](#). The city of Delhi actually consists of two components: Old Delhi, in the north, the historic city; and [New Delhi](#), in the south, since 1947 the capital of India. Shalimar Bagh is located in north west of Delhi and comes under Zone H according to the Master Plan of Delhi 2021. Zone H is distinctly characterized by well planned residential localities. This Zone is situated between two major railway lines viz, railway line to Ambala in the North East and the other to Rohtak in the South West. Railway line to Ambala is visible from the site, adjacent to the main access road to the site.



ABOUT SITE:

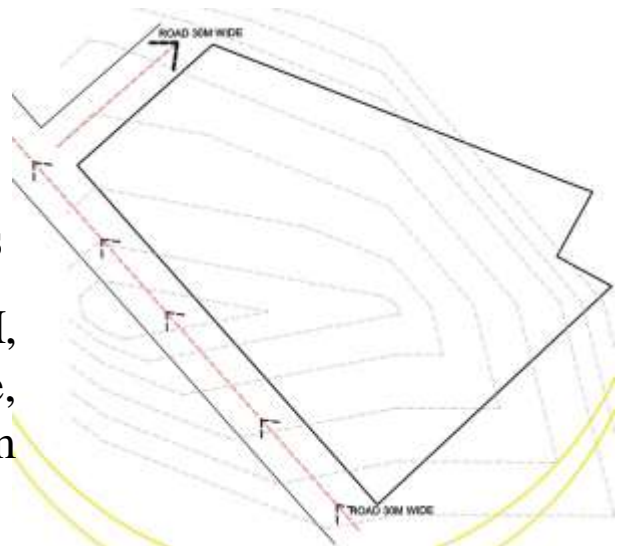
- **Area of the site** is 10.87Acre or 44000 m²
- **Nearest Metro station** is just 1Km far-off. Well connected by means of manual Rikshaw or e-Rikshaw.
- **Accessibility from two metro lines**

Close proximity to Haiderpur Badli more metro station yellow line (500m, 6 mins walking, 1 min by car)

Proximity to Jahangirpuri metro station pink line (2.7km, 7 mins by car)



- **Access Roads are on two sides**
- Basic facilities like ATM, Banks and market is available, in close proximity of maximum walking distance 600m



SITE ANALYSIS

PROJECT INTRODUCTION

DRUG ADDICTION TREATMENT AND REHABILITATION CENTRE IS SPECIALIZED HEALTHCARE DEDICATED TO IMPROVING, MAINTAINING OR RESTORING PHYSICAL STRENGTH, COGNITION AND MOBILITY OF THE ADDICTS, BY THE HELP OF COUNSELLING SESSIONS BY THE EXPERTS AND TRAINED PROFESSIONALS TO IMPROVE THEIR PHYSICAL AND MENTAL STRENGTH. IT WOULD EVENTUALLY HELP PEOPLE GAIN GREATER INDEPENDENCE, SELF-CONFIDENCE AND STRENGTH TO LIVE LIFE WITHOUT THE SUBSTANCE ABUSE. REHABILITATION IS A PROCESS AND AS A TREATMENT IS NOT GIVEN MUCH IMPORTANCE IN OUR SOCIETY. WITH THIS CONCEPT IN HINDSIGHT, MUCH OF THE ESTABLISHED INFRASTRUCTURE IS NOT BUILT AROUND THE HOLISTIC TREATMENT OF THE PEOPLE SEEKING HELP.

SCOPE OF PROJECT

- THE FACILITY HAS THE PRIME FOCUS ON HOLISTIC HEALING USING NATURAL AND BUILT SPACES. FOCUSING ON CO-DEPENDENT METHODS AND NOT JUST A SINGULAR APPROACH
- THE AREA OF STUDY IS LIMITED TO DELHI ONLY.
- THE PROJECT SHOWS THE ONE OF THE METHODS OF HEALING WHICH CAN BE USED BY ALL, IRRELEVANT OF AGE, SEXUALITY, REGION OR ECONOMIC BACKGROUNDS OF PEOPLE.



REQUIREMENTS OF PROJECT

| | | |
|--------------------------|-------------------------|----------------------------------|
| RECEPTION & WAITING AREA | ADMIN OFFICES | CONSULTATION / EXAMINATION ROOMS |
| ASSESSMENT ROOMS | PHYSIOTHERAPY SPACES | SPEECH / LANGUAGE THERAPY SPACES |
| PATIENT ACCOMODATION | STAFF ACCOMODATION | INFORMATION CENTRE |
| DETOXIFICATION CENTRE | OPEN INTERACTIVE SPACES | PARKING & SERVICE AREAS |

CASE STUDIES

- NATIONAL DRUG DEPENDENCE CENTRE, GAZIABAD

LITERATURE STUDIES

- MUKHTANGAN, PUNE



ABOUT SITE



LOCATION

SHALIMARBAGH, BLOCK C & D, DELHI



USERS:

PATIENTS, DOCTORS, NON-MEDICAL STAFF



CLIENT

DELHI DEVELOPMENT AUTHORITY



SITE AREA

10.87 ACRE



DISTANCE FROM IGI AIRPORT- 28 KM



DISTANCE FROM NEW DELHI RAILWAY STATION- 16 KM



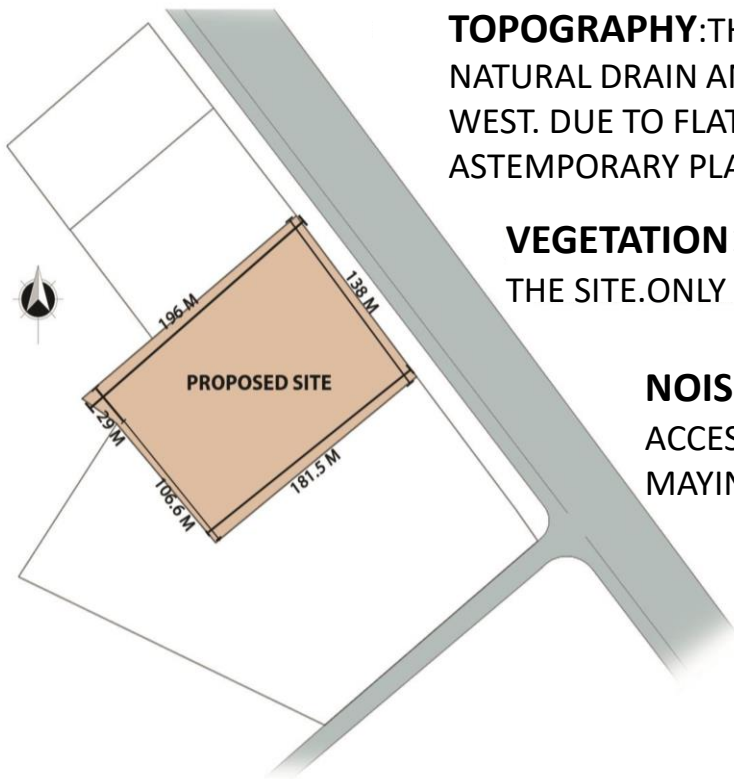
DISTANCE FROM ANAND VIHAR ISBT - 28 KM



BUILDING TYPE

DRUG REHAB

SITE ANALYSIS



TOPOGRAPHY:THE GROUND IS OVERALL FLAT WITH NATURAL DRAIN AND GENTLE SLOPE TOWARDS SOUTH-WEST. DUE TO FLAT TERRAIN THE SITE IS USED AS A TEMPORARY PLAYFIELD BY THE YOUTH AND CHILDREN

VEGETATION:THERE ARE NO TREES PRESENT ON THE SITE. ONLY DRY BUSHES AND GRASS ARE PRESENT.

NOISE MAPPING:TRAIN AND THE SERVICE ACCESS ROAD TOWARDS EAST SIDE MAY INCREASE THE NOISE LEVELS.

ELECTRICITY: PROVIDED BY POWER STATION IN FRONT OF MUBARAKA CHOWK BUS STATION. 66KV TRANSFORMER IS PLACED JUST IN FRONT OF SITE. ELECTRIC POLES RUN ALONG THE ROAD WITH STREET LIGHTS. NEAREST SUB-STATION IS LOCATED AT THE DISTANCE OF 1.5 KM.

WATER SUPPLY: THE WATER IS SUPPLIED THROUGH DELHI JAL BOARD. NEAREST JAL BOARD IS SITUATED AT SHALIMAR BAGH. THIS JAL BOARD IS AT A DISTANCE OF 15.4 KM.



FIRE STATION: THE NEAREST FIRE STATION IS JAHANGIR PURI FIRE STATION. THIS FIRE STATION IS LOCATED 2.1 KM AWAY FROM THE SITE.

SEWAGE: WASTE DISPOSAL PLANT IS SITUATED AT MAIN PUSTA ROAD BADLI, DELHI. THIS WASTE DISPOSAL PLANT IS SITUATED AT A DISTANCE OF 3.8 KM FROM THE SITE. SEWER PIPES RUN ALONG THE SITE.

SITE INFERENCES

1. INDUSTRIAL AREA WITH RAILWAY TRACK INFRONT OF THE SITE MAKES THE ENVIRONMENT NOISY.
2. NOISE BARRIERS HAVE TO BE CREATED IN FORMS OF TREES OR MOUNTS.
3. PRESENCE OF CREMATORY BEHIND THE SITE WILL SOMEHOW PROVIDE NEGATIVE ATTITUDE TO THE PATIENTS, THUS THIS AREA SHOULD BE HIDDEN FROM THE BUILDING, NOT VISIBLE TO THE PATIENTS.
4. PRESENCE OF MAX HOSPITAL, COMMUNICATION CENTER MAKES THE ENVIRONMENT INSTITUTIONAL TYPE.
5. DRUG DE-ADDICTION CENTER IS VERY IMPORTANT IN THIS AREA AS SLUM IS PRESENT JUST BEHIND THE MAX HOSPITAL.
6. THERE IS STILL ENOUGH LAND FOR FURTHER EXPANSION.
7. EASILY ACCESSIBLE, LOCATED AT ONE OF THE PRIME LOCATIONS.
8. OPPORTUNITY FOR DEVELOPMENT OF MEDICAL MARKET.
9. AS THE SITE FALLS UNDER SEISMIC ZONE IV SO THE DESIGNING OF THE STRUCTURE SHOULD BE DONE KEEPING IN MIND.
10. DESIGNING OPEN SPACES IN DELHI'S CLIMATE CAN BE CHALLENGING.
11. IF POSSIBLE TWO ENTRIES SHOULD BE PROVIDED, ONE FOR STAFF AND ONE FOR PATIENTS.



SHOWS HIGH VOLTAGE LINES



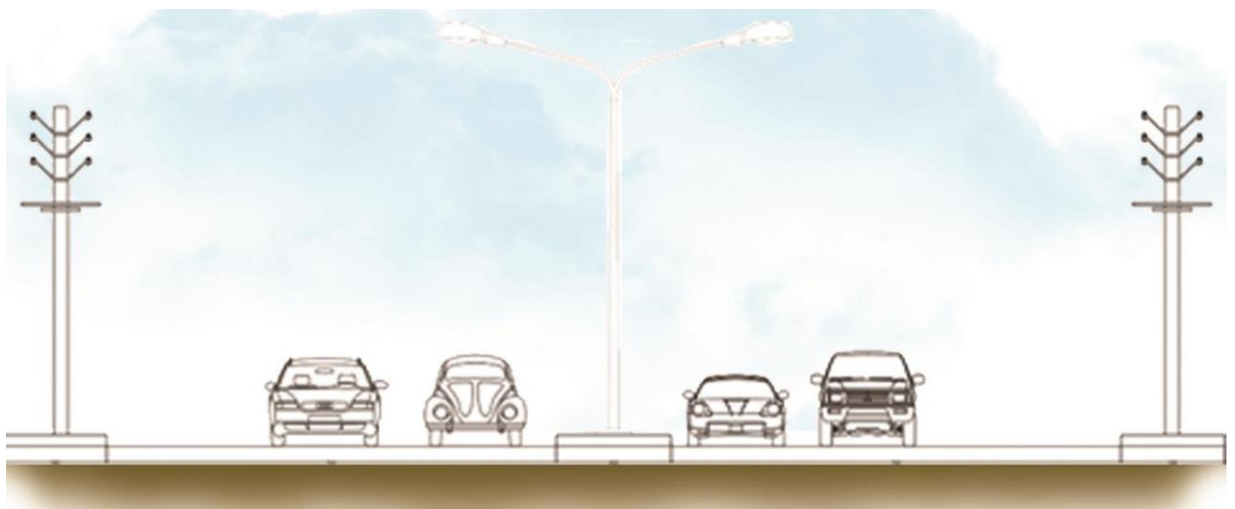
SEWAGE DRAINAGE PIPELINE



SHOWS THE STORM WATER DRAIN



SHOWS THE ACCESS ROAD



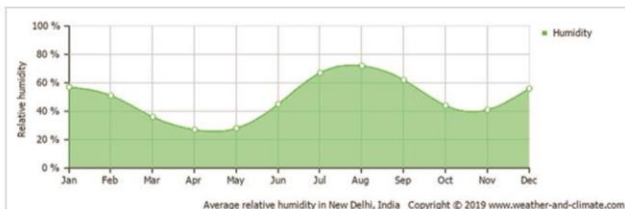
ROAD SECTION

SUNHOURS



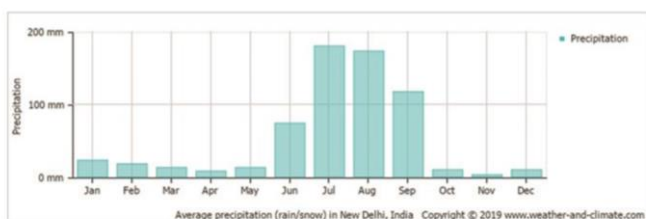
ON AVERAGE, MAY IS THE MOST SUNNY. ON AVERAGE, AUGUST HAS THE LOWEST AMOUNT OF SUNSHINE.

HUMIDITY



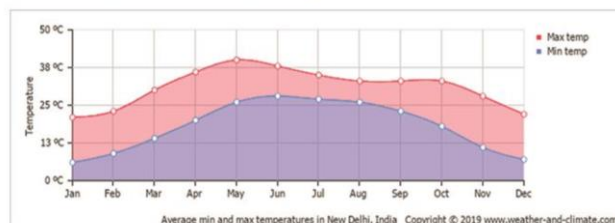
ON AVERAGE, AUGUST IS THE MOST HUMID. ON AVERAGE, APRIL IS THE LEAST HUMID MONTH. THE AVERAGE ANNUAL PERCENTAGE OF HUMIDITY IS: 49.0%

PRECIPITATION



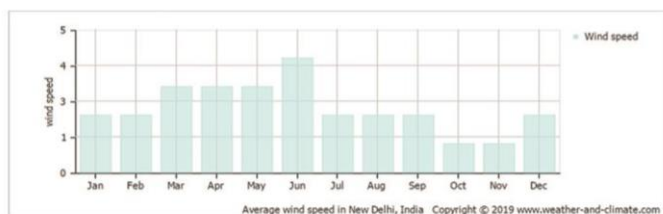
A LOT OF RAIN (RAINY SEASON) FALLS IN THE MONTHS: JULY, AUGUST AND SEPTEMBER. NEW DELHI HAS DRY PERIODS IN JANUARY, FEBRUARY, MARCH, APRIL, MAY, OCTOBER, NOVEMBER AND DECEMBER. ON AVERAGE, JULY IS THE WETTEST MONTH. ON AVERAGE, NOVEMBER IS THE DRIEST MONTH. THE AVERAGE AMOUNT OF ANNUAL PRECIPITATION IS: 642.0 MM.

TEMPERATURE



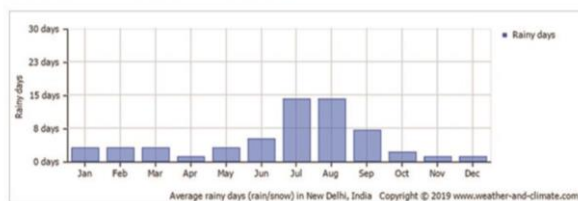
ON AVERAGE, THE WARMEST MONTH IS MAY. ON AVERAGE, THE COOLEST MONTH IS JANUARY. THE AVERAGE ANNUAL MAXIMUM TEMPERATURE IS: 31.0° CELSIUS (87.8° FAHRENHEIT) THE AVERAGE ANNUAL MINIMUM TEMPERATURE IS: 18.0° CELSIUS (64.4° FAHRENHEIT)

WIND SPEED



ON AVERAGE, THE MOST WIND IS SEEN IN JUNE. ON AVERAGE, THE LEAST WIND IS SEEN IN NOVEMBER.

RAINY DAYS



NEW DELHI HAS DRY PERIODS IN APRIL, OCTOBER, NOVEMBER AND DECEMBER. ON AVERAGE, JULY IS THE MOST RAINY. ON AVERAGE, NOVEMBER HAS THE LEAST RAINY DAYS. THE AVERAGE ANNUAL AMOUNT OF RAINY DAYS IS: 57.0 DAYS

SWOT ANALYSIS

STRENGTH

- AS THE SECTOR IS DERDEVELOPMENT PROPOER TRANSPORTATION IS AVAILABLE AND BASIC AMENITIES ARE NEAR TOWARD.

- MAHATMA GANDHI MARG, ASIAN HIGHWAY-1,2 AND OUTER RING ROAD ARE ALL CONNECTED TO THIS AREAD

OPPORTUNITY

- THERE IS A OPPORTUNITY FOR GREEN BELT TO ENHANCE THE SUSTAINABILITY TO THE SITE.

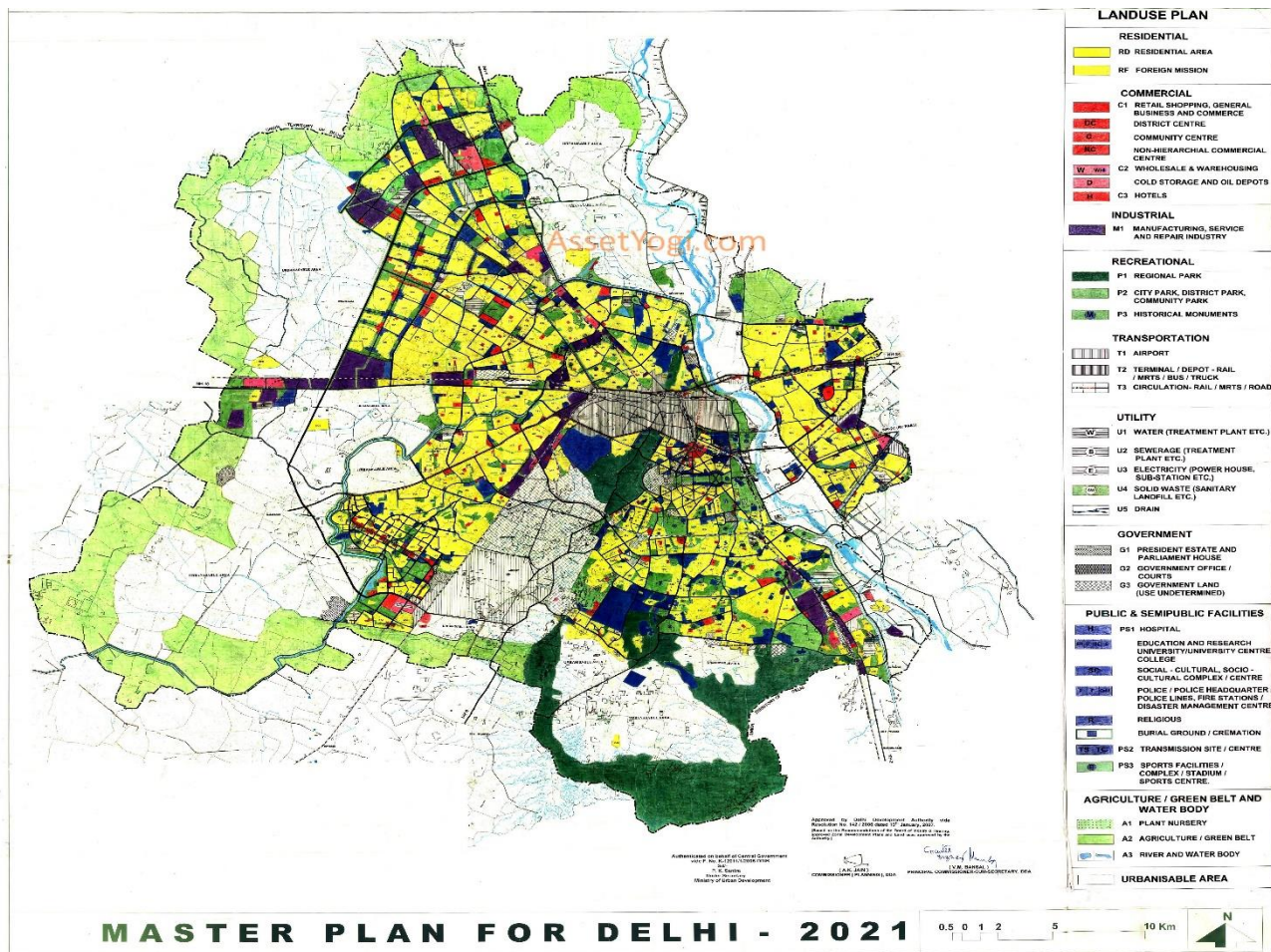
WEAKNESS

- INDUSTRIAL AREA WITH RAILWAY TRACK INFRONT OF THE SITE MAKES THE ENVIRONMENT NOISY.

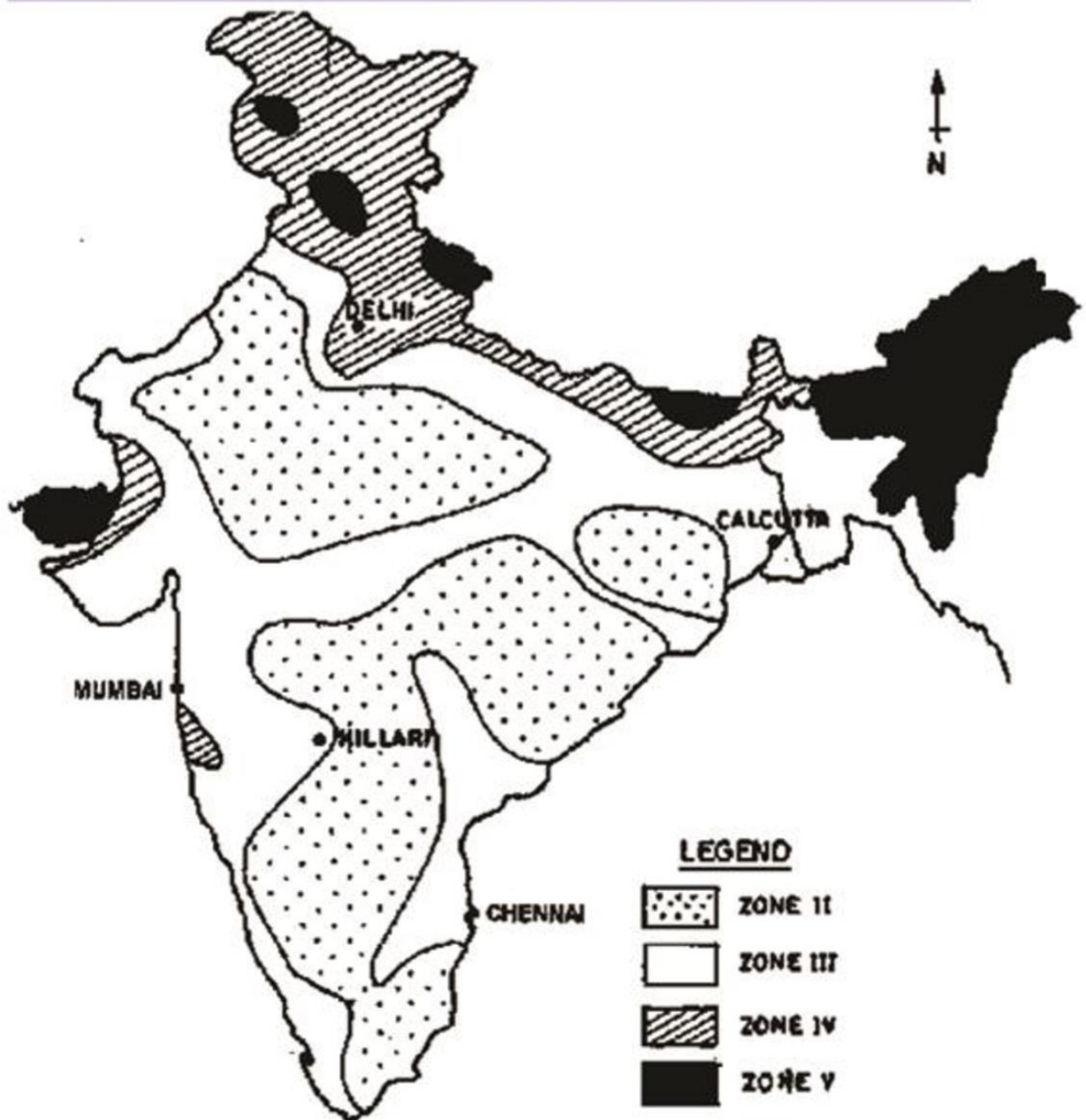
THREATS

- PROPOSE SITE COME UNDER 4THSEISMIC ZONE IN INDIA.
- UNSUSTAINABLE MANAGEMENT ON ITS LAND & WATER RESOURCES.

SITE ANALYSIS

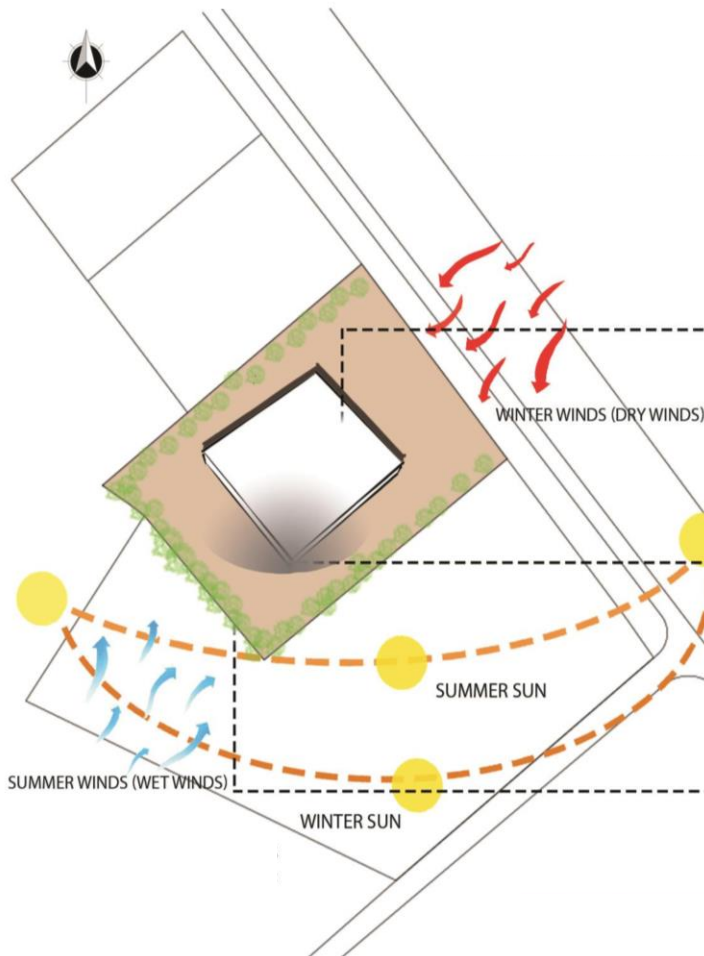


SEISMIC ZONE CLASSIFICATION



THE SEISMIC ZONING MAP OF INDIA (IS1893-2002) MARKS A FAIRLY LARGE REGION INCLUDING **DELHI** TO BE IN **ZONE IV**. EARTHQUAKES ARE LOW PROBABILITY EVENTS BUT WITH VERY HIGH LEVELS OF RISK TO SOCIETY

INTERFACES



BUILDING ORIENTATION SHOULD BE SUCH THAT TO MINIMIZE THE IMPACT OF DIRECT SUN, SIMULTANEOUSLY PROVIDING WINTER HEAT.

SHADING DEVICE TO BE PROVIDED FROM DIRECT SUNLIGHT ON SOUTH-WEST FACADE OF BUILDING SUCH AS- LOUVERS, CANTILEVERS, JAALI WORK.

TREES WITH BIG FOLIAGE CAN BE USED ON THE WARMER FACADE TO PREVENT FROM DIRECT SUNLIGHT.

NEW DELHI IS 215M ABOVE SEA LEVEL. THE PREVAILING CLIMATE IN NEW DELHI IS COMPOSITE CLIMATE.

DELHI LIES IN THE LANDLOCKED NORTHERN PLAINS OF THE INDIAN SUBCONTINENT. ITS CLIMATE IS GREATLY INFLUENCED BY ITS PROXIMITY TO THE HIMALAYAS AND THE THAR DESERT, CAUSING IT TO EXPERIENCE BOTH WEATHER EXTREMES.

TWO IMPORTANT OCCURRENCES INFLUENCING DELHI'S CLIMATE ARE WESTERN DISTURBANCE AND SOUTH-WEST WINDS.

SOIL TYPE CLASSIFICATION



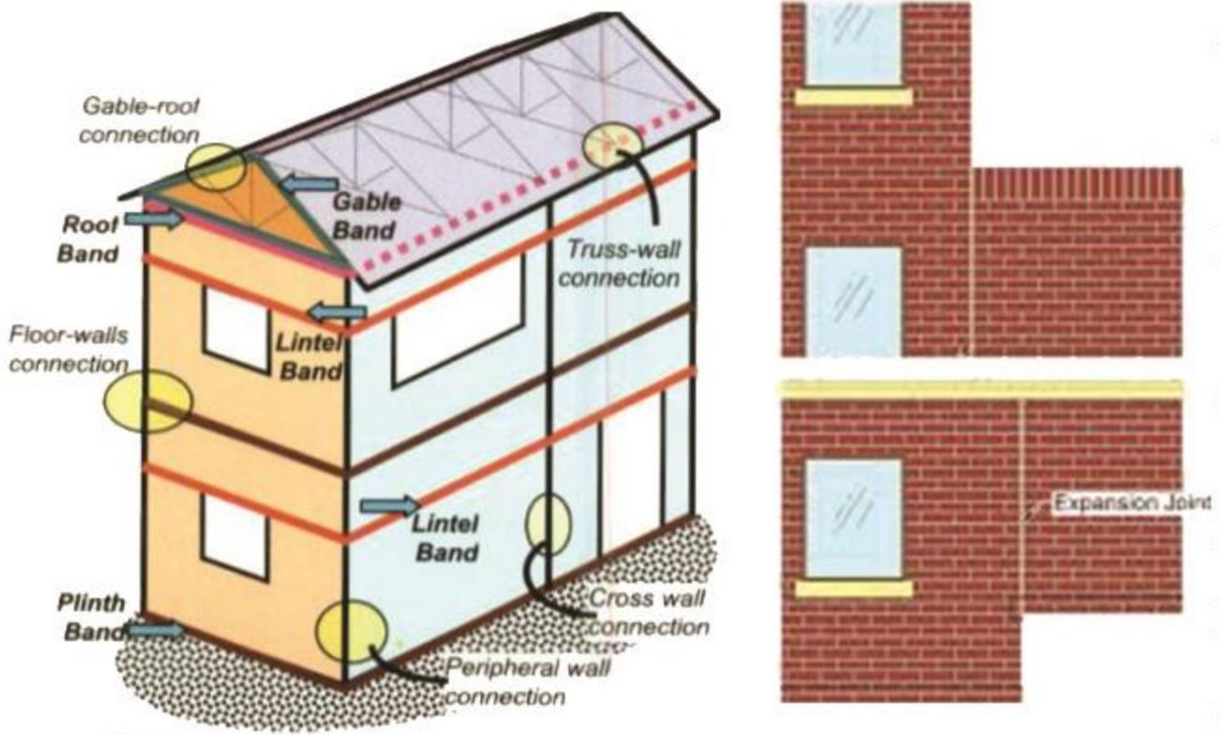
ALLUVIAL SOIL HAVE BEEN DEPOSITED BY THE INDUS, THE GANGES, AND THE BRAHMAPUTRA RIVERS. THE ENTIRE NORTHERN PLAINS, CHANDIGARH, **DELHI (ALMOST ENTIRELY)**, HARYANA, HIMACHAL PRADESH, JAMMU AND KASHMIR, MADHYA PRADESH, PUNJAB, RAJASTHAN, UTTARAKHAND, UTTAR PRADESH, AND WEST BENGAL) ARE MADE OF ALLUVIAL SOIL. THE COMMONLY USED FOUNDATION SYSTEM IN ALLUVIAL DEPOSITS IN THE INDIAN SCENARIO ARE **RAFT FOUNDATION**. LOADS ARE TRANSFERRED TO THE GROUND THROUGH A RAFT SLAB COVERING THE WHOLE FOOTPRINT OF THE BUILDING.

TO PROTECT FROM EARTHQUAKE SHOCKS VARIOUS TECHNIQUES ARE PRACTISED SUCH AS:

HORIZONTAL BANDS-

1. PLINTH BAND
2. LINTEL BAND
3. ROOF BAND

VERTICAL REINFORCEMENT IN BRICK WALLS; SHEAR WALLS PROVISION OF EXPANSION JOINTS.



AN EXPANSION JOINT OR MOVEMENT JOINT IS AN ASSEMBLY DESIGNED TO HOLD PARTS TOGETHER WHILE SAFELY ABSORBING TEMPERATURE-INDUCED EXPANSION AND CONTRACTION OF BUILDING MATERIALS, AND VIBRATION. OR TO ALLOW MOVEMENT DUE TO GROUND SETTLEMENT OR SEISMIC ACTIVITY.

AREA ANALYSIS

REQUIREMENTS AND AREA ANALYSIS

SITE BYE-LAWS:

SITE AREA: 6ACRE (24281.67M²)

F.A.R.: 1.2

GROUND COVERAGE: 30%

PERMISSIBLE COVERED AREA: 29138M²

PROPOSED F.A.R.: 0.51

PROPOSED COVERED AREA: 12324.4 M²

ECS:2/100M²

ADMINISTRATION

- OFFICES
- RECORDS ROOM
- MOAINTENANCE
- LIBRARY
- SECURITY

OUTPATIENT DEPARTMENT

- CONSULTANTS
- COUNCELLING
- THERAPY
- DAYCARE
- DETOXIFICATION
- DRUG DISPENSING

INPATIENTDEPARTMENT

- WARDS
- DETOXIFICATION
- COUNCELLING
- DRUG DISPENSING
- RECORD ROOM
- VOCATIONAL TRAINING
- 1 COMPUTER TRAINING
- 2 POTTERY MAKING
- 3 PAINTING
- 4 SEWING & KNITTING
- 5 HANDICRAFT
- 6 CANDLE MAKING
- 7 TOY MAKING

RESIDENTIAL

- DOCTOR'S RESIDENCE
- STAFF QUATERS

LIFTS-

PASSENGER LIFT: 1 UNIT

CAPACITY: 8 PERSON

CAR SIZE: 1300X1100

HOISTWAY DIMENSION: 1700X1700

HOSPITAL LIFT: 1 UNIT CAPACITY: 10 PERSON

CAR SIZE: 900X1950

HOISTWAY DIMENSION: 1750X2500

ELECTRICAL ROOM-

NO. OF UNITS: AS PER FLOOR

AREA: 20M²

DG SET-

NO. OF UNIT: 1

AREA: 50M²

FIRE STAIRCASE-

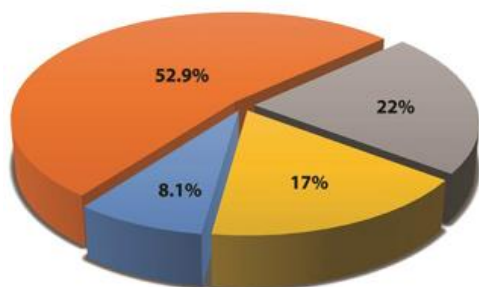
AREA: 20M²

WATER TANK CAPACITY:

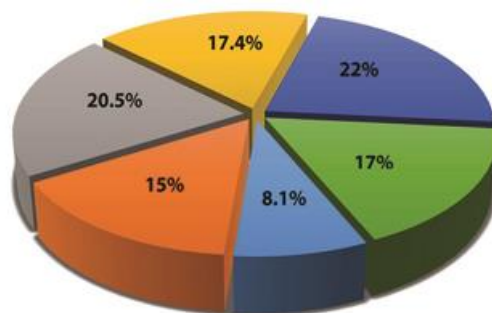
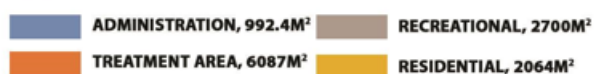
340L/PERSON/DAY

| PATIENT'S DAILY ROUTINE | |
|-------------------------|---|
| TIME | ACTIVITY |
| 6:00 | WAKE UP TIME |
| 6:15 | MORNING TEA |
| 06:45-07:45 | YOGA & PRANAYAMS |
| 08:15-09:45 | BREAKFAST |
| 09:15-10:15 | MEDITATION-INPUT SESSION BY EXPERTS |
| 10:15 | TEA BREAK |
| 10:30-11:45 | TIME SLOT FOR VISITING COUNCELLOR/DIARY WRITING/LIBRARY |
| 11:45-12:45 | GROUP THERAPY |
| 12:45-13:30 | LUNCH |
| 14:00-16:00 | REST |
| 14:30-15:30 | GROUP THERAPY FOR 3rd & 4th WEEK FRIENDS |
| 16:30-17:00 | PHYSICAL TRAINING |
| 17:00-17:15 | TEA BREAK |
| 17:15-18:30 | RECREATION/GYMNASIUM/GAMES |
| 18:30-19:30 | AA/NA MEETING (ONCE A WEEK ON SUNDAYS) |
| 19:30-20:00 | PRAYER & DISTRIBUTION OF MEDICINES |
| 20:00-20:30 | DINNER |
| 20:30-22:00 | ENTERTAINMENT-T.V./AUDIO-VIDEO/INDOOR GAMES/BOOKS POST THAT LIGHTS OFF |

AREA DISTRIBUTION CHART:



LEDENDS:-

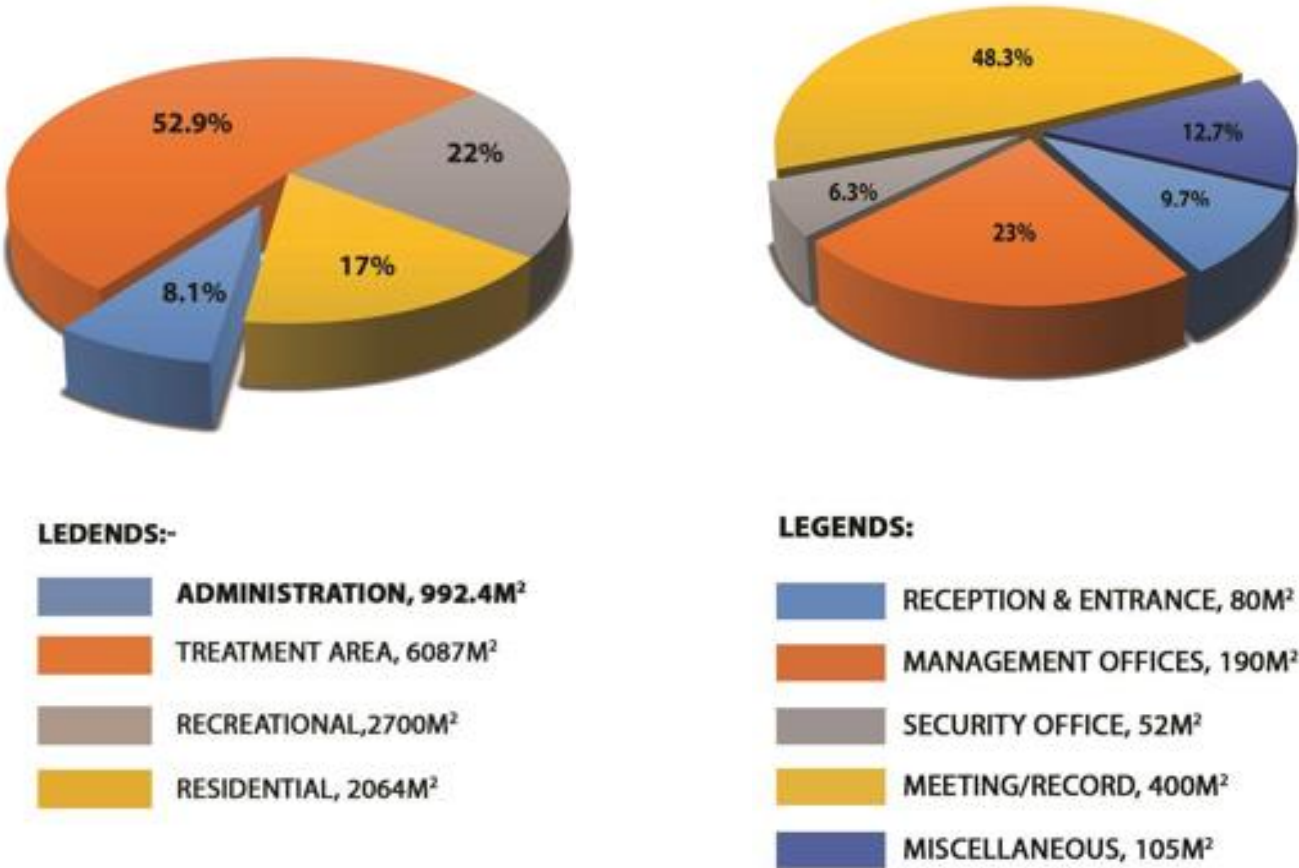


LEDENDS:-



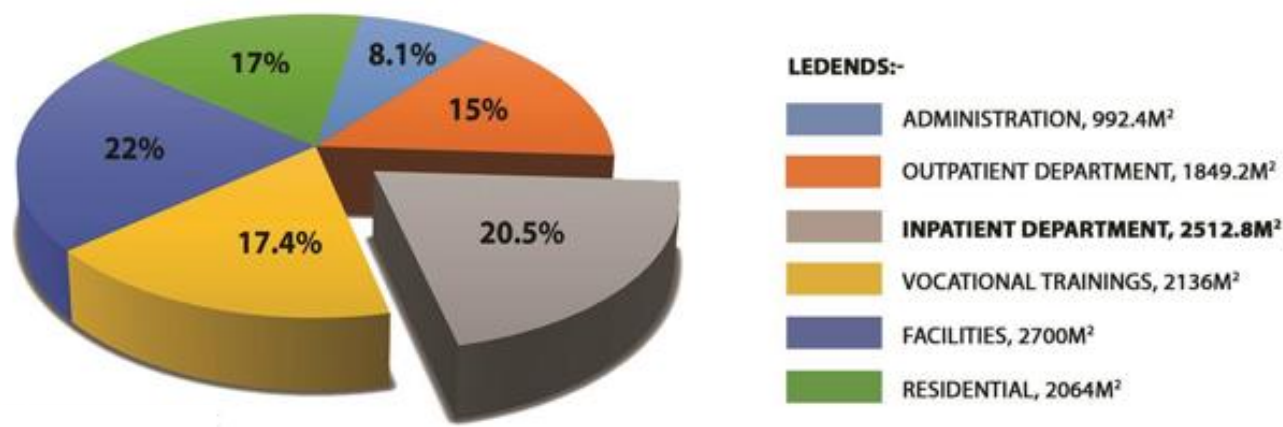
| S. NO. | REQUIREMENTS | NDDTC, AIIMS, GHAZIABAD (SQ. M.) | | | SANJIVINI, NEW DELHI (SQ. M.) | | | MUKTANGAN REHABILITATION CENTRE, PUNE (SQ. M.) | | | STANDARDS (SQ. M.) | | | (PROPOSED FOR 60 IPD) | | | REMARKS |
|--------|--------------------------------|----------------------------------|------|-------|-------------------------------|------|-------|--|------|-------|--------------------|------|-------|-------------------------------|------|-------|------------------|
| | | 50 IPD & 170 OPD | | | 25 M&F | | | 100 IPD & 10 OPD | | | | | | | | | |
| | TYPES OF SPACE | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | |
| A. | ADMINISTRATION | | | | | | | | | | | | | | | | |
| 1 | DIRECTOR'S OFFICE | 1 | 44 | 44 | 1 | 25 | 25 | - | - | - | 1 | 12 | 12 | 1 | 25 | 25 | CASE STUDY 2 |
| | ENTRANCE FOYER | - | - | - | - | - | | - | - | - | 1.5/PERSON | | | 1 | 40 | 40 | STANDARD |
| 2 | COORDINATOR'S OFFICE/ASSISTANT | 4 | 5.6 | 22.4 | 1 | 12 | 12 | - | - | - | 1 | 12 | 12 | 2 | 20 | 40 | TO BE PROPOSED |
| 3 | SOCIAL WORKER'S OFFICE | 6 | 12.5 | 75 | - | - | - | 2 | 9.8 | 19.6 | 2 | 12 | 12 | 1 | 35 | 35 | TO BE PROPOSED |
| 4 | ACCOUNTS | 1 | 11.2 | 11.2 | 1 | 8 | 8 | - | 105 | - | 1 | 12 | 12 | 1 | 15 | 15 | TO BE PROPOSED |
| 5 | WAITING | - | - | - | 1 | 20 | 20 | - | 60 | - | 1 | 40 | 40 | 1 | 40 | 40 | LITERATURE STUDY |
| 6 | CONFERENCE HALL | 1 | 35 | 35 | - | - | - | - | - | - | - | - | - | 1 | 35 | 35 | CASE STUDY 1 |
| 7 | TOILET (MALE) | 1 | 18 | 18 | - | - | - | - | - | - | 1 | 18 | 18 | 2 | 18 | 36 | CASE STUDY 1 |
| 8 | TOILET (FEMALE) | 1 | 15 | 15 | - | - | - | - | - | - | 1 | 15 | 15 | 2 | 15 | 30 | CASE STUDY 2 |
| 9 | TOILET (HANDICAPPED) | - | - | - | - | - | - | - | - | - | 1 | 15 | 15 | 1 | 15 | 15 | STANDARD |
| S. NO. | REQUIREMENTS | NDDTC, AIIMS, GHAZIABAD (SQ. M.) | | | SANJIVINI, NEW DELHI (SQ. M.) | | | MUKTANGAN REHABILITATION CENTRE, PUNE (SQ. M.) | | | STANDARDS (SQ. M.) | | | REMARKS (PROPOSED FOR 60 IPD) | | | |
| | | 50 IPD & 170 OPD | | | 25 M&F | | | 100 IPD & 10 OPD | | | | | | | | | |
| | TYPES OF SPACE | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | |
| B. | O.P.D. | | | | | | | | | | | | | | | | |
| 1 | WAITING & ENTRANCE LOBBY | 1 | 20 | 20 | 1 | 20 | 10 | - | 60 | - | 1 | 52 | 52 | 1 | 120 | 120 | TO BE PROPOSED |
| 2 | PSYCHIATRIST'S ROOM | - | - | - | - | - | - | 2 | 11.5 | 23 | 1 | 16 | 16 | 2 | 20 | 40 | AS PER STANDARD |
| 3 | DOCTOR'S ROOM | - | - | - | - | - | - | - | 24 | - | 2 | 9 | 18 | 5 | 20 | 100 | TO BE PROPOSED |
| 4 | NURSE STATION | - | - | - | - | - | - | - | - | - | - | - | - | 16 | 20 | 320 | TO BE PROPOSED |
| 5 | THERAPISTS/ PHYSICIAN | - | - | - | - | - | - | 2 | 11.5 | 23 | 2 | 25 | 50 | 2 | 20 | 40 | |
| 6 | COUNSELLING ROOM | 6 | 8 | 48 | 6 | 8 | 48 | 4 | 30 | 120 | 2 | 9 | 18 | 2 | 20 | 40 | MEAN OF STUDIES |
| 7 | GROUP COUNSELLING ROOM | 2 | 20 | 40 | 2 | 20 | 40 | - | - | - | - | - | - | 1 | 40 | 40 | CASE STUDY |
| 8 | FAMILY COUNSELLING | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 20 | 40 | TO BE PROPOSED |
| 9 | DAY CARE CENTRE | 1 | 150 | 150 | 1 | 150 | 150 | - | - | - | 1 | 120 | 120 | 1 | 120 | 120 | STANDARD |
| 10 | STORE | 2 | 12 | 24 | 2 | 12 | 24 | - | - | - | 1 | 24 | 24 | 2 | 24 | 48 | STANDARD |
| 11 | DRUG DISPENSARY & PHARMACY | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 25 | 25 | TO BE PROPOSED |

ADMIN BLOCK AREA DISTRIBUTION :

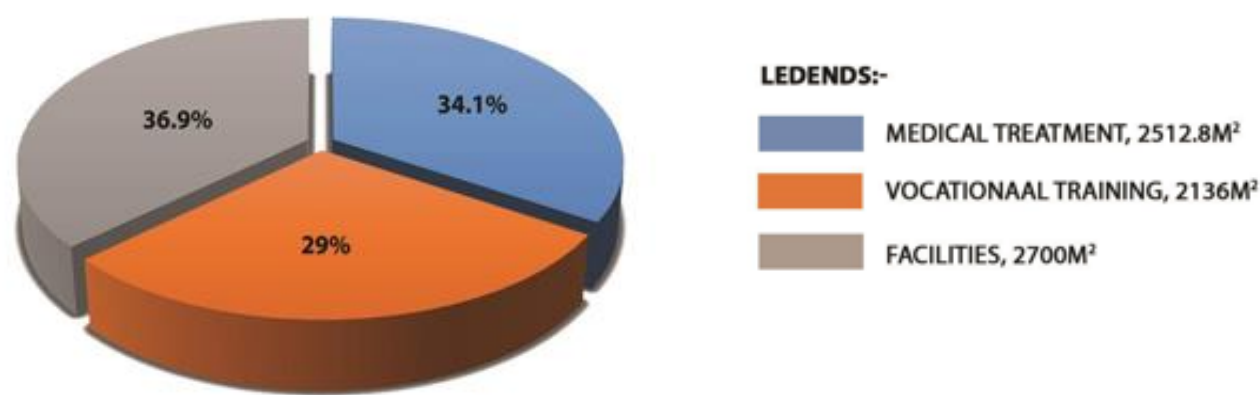


| S. NO. | REQUIREMENTS | NDDTC, AIIMS, GHAZIABAD (SQ. M.) | | | SANJIVINI, NEW DELHI (SQ. M.) | | | MUKTANGAN REHABILITATION CENTRE, PUNE (SQ. M.) | | | STANDARDS (SQ. M.) | | | REMARKS (PROPOSED FOR 150 M & 100 F) | | | |
|--------|------------------|----------------------------------|-------|------------|-------------------------------|------|-------|--|------|-------|----------------------------|------|-------|--------------------------------------|------|-------|----------------|
| | | 50 IPD & 170 OPD | | | 25 M&F | | | 100 IPD & 10 OPD | | | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | |
| | | NOS. | AREA | TOTAL AREA | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | | | | | | | |
| C. | I.P.D. | | | | | | | | | | | | | | | | |
| 1 | DETOX WARD | 1 | 197 | 197 | - | - | - | - | - | - | 1 | 210 | 210 | 2 | 210 | 420 | STANDARD |
| 2 | GENERAL WARD (M) | - | - | - | - | - | - | - | - | - | 0.8/ BED FOR TRIPLE BEDDED | | | 3 | | 180 | STANDARD |
| 3 | GENERAL WARD (F) | - | - | - | - | - | - | - | - | - | 0.8/ BED FOR TRIPLE BEDDED | | | 1 | | 60 | STANDARD |
| 4 | RELAPSE WARD | - | - | - | - | - | - | - | - | - | 10/BED FOR SINGLE BEDDED | | | 5 | 10 | 50 | STANDARD |
| 5 | SPECIAL WARD | - | 17.98 | - | - | - | - | - | - | - | 10/BED FOR SINGLE BEDDED | | | 4 | 12 | 48 | STANDARD |
| 6 | SINGLE ROOMS | - | - | - | - | - | - | - | - | - | 10/BED FOR SINGLE BEDDED | | | 9 | 12 | 108 | STANDARD |
| 7 | TOILET (M) | 2 | | | - | - | - | - | - | - | 1 | 32.4 | 32.4 | 2 | 40 | 80 | STANDARD |
| 11 | BATHING UNIT | - | - | - | - | - | - | - | - | - | 15 | 1.98 | 30 | | | | |
| 12 | TOILET (F) | 2 | 20 | 40 | - | - | - | - | - | - | 1 | 59.4 | 59.4 | 2 | 60 | 120 | STANDARD |
| 16 | DOCTOR'S ROOM | - | 7.4 | - | - | - | - | - | - | - | 2 | 18 | 36 | 4 | 25 | 100 | TO BE PROPOSED |
| 17 | NURSE'S STATION | - | 11.1 | - | - | - | - | - | - | - | - | - | - | 6 | 20 | 120 | TO BE PROPOSED |
| 18 | REST ROOM | - | - | - | - | - | - | - | - | - | 1 | 12 | 12 | 3 | 20 | 60 | TO BE PROPOSED |
| 19 | WARD STORE | 1 | 12 | 12 | - | - | - | - | - | - | - | - | - | 2 | 12 | 24 | CASE STUDY 1 |
| 20 | WARD RECORD | 1 | 12 | 12 | - | - | - | - | - | - | - | - | - | 2 | 12 | 24 | CASE STUDY 1 |

I.P.D. BLOCK AREA DISTRIBUTION :



I.P.D. BLOCK FURTHER AREA DISTRIBUTION :



APART FROM MEDICATION VOCATIONAL TRAINING AND RECREATIONAL ACTIVITIES LIKE YOGA, MEDITATION, ETC. ARE NECESSARY FOR PATIENT'S METAL HEALTH AND WELFARE. THEREFORE, I.P.D. IS FURTHER DIVIDED INTO THE FOLLOWING:

| S. NO. | REQUIREMENTS | NDDTC, AIIMS, GHAZIABAD (SQ. M.) | | | SANJIVINI, NEW DELHI (SQ. M.) | | | MUKTANGAN REHABILITATION CENTRE, PUNE (SQ. M.) | | | STANDARDS (SQ. M.) | | | REMARKS (PROPOSED FOR 150 M & 100 F) | | | |
|--------|---------------------|----------------------------------|------|-------|-------------------------------|------|-------|--|------|-------|--------------------|------|-------|--------------------------------------|------|-------|----------|
| | | 50 IPD & 170 OPD | | | 25 M&F | | | 100 IPD & 10 OPD | | | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | |
| | TYPES OF SPACE | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | |
| D. | VOCATIONAL TRAINING | | | | | | | | | | | | | | | | |
| 1 | STITCHING | - | - | - | - | - | - | - | - | - | 1 | | 40 | 1 | 40 | 40 | STANDARD |
| 2 | PACKAGING | - | - | - | - | - | - | - | - | - | 1 | | 50 | 1 | 50 | 50 | STANDARD |
| 3 | COMPUTER TRAINING | - | - | - | 1 | - | - | - | - | - | 3/PERSON | | | 1 | 180 | 180 | STANDARD |
| 4 | POTTERY MAKING | - | - | - | 1 | 30 | 30 | - | - | - | 2/PERSON | | | 1 | 120 | 120 | STANDARD |
| 5 | PAINTING | - | - | - | | | | - | - | - | 4/PERSON | | | 1 | 160 | 160 | STANDARD |
| 6 | CANDLE MAKING | - | - | - | 1 | 30 | 30 | - | - | - | 2/PERSON | | | 1 | 80 | 80 | STANDARD |
| 7 | TOY MAKING | - | - | - | - | - | - | - | - | - | 3/PERSON | | | 1 | 120 | 120 | STANDARD |
| 8 | PRINTING | - | - | - | - | - | - | - | - | - | | | | 1 | 240 | 240 | STANDARD |
| 9 | MATERIAL STORE | - | - | - | - | - | - | - | - | - | | | | 1 | 80 | 80 | |

| S. NO. | REQUIREMENTS | NDDTC, AIIMS, GHAZIABAD (SQ. M.) | | | SANJIVINI, NEW DELHI (SQ. M.) | | | MUKTANGAN REHABILITATION CENTRE, PUNE (SQ. M.) | | | STANDARDS (SQ. M.) | | | REMARKS (PROPOSED FOR 150 M & 100 F) | | | |
|--------|----------------------------|----------------------------------|------|-------|-------------------------------|------|-------|--|------|-------|--------------------|------|-------|--------------------------------------|------|-------|----------------|
| | | 50 IPD & 170 OPD | | | 25 M&F | | | 100 IPD & 10 OPD | | | | | | | | | |
| | TYPES OF SPACE | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | NOS. | AREA | TOTAL | |
| E. | TRAINING & RESEARCH CENTRE | | | | | | | | | | | | | | | | |
| 1 | CONFERENCE ROOM | 1 | 80 | 80 | 1 | 60 | 60 | 7.4 | | | 1 | 30 | 30 | 1 | 100 | 100 | TO BE PROPOSED |
| 2 | LECTURE ROOM | - | - | - | - | - | - | - | - | - | 1 | 30 | 30 | 2 | 60 | 120 | TO BE PROPOSED |
| 3 | RECREATIONAL ROOM | - | - | - | - | - | - | - | 108 | - | 1 | 200 | 200 | 2 | 200 | 400 | STANDARD |
| 4 | EXHIBITION HALL | - | - | - | - | - | - | - | 108 | - | - | - | - | 1 | 200 | 200 | TO BE PROPOSED |

| S.NO. | REQUIREMENTS | QUANTITY | AREA (SQ. M) | TOTAL AREA (SQ. M) |
|-------|---------------------------------------|----------|--------------|--------------------|
| A. | ADMINISTRATION | | | |
| 1 | RECEPTION CUM WAITING | 1 | 40 | 40 |
| 2 | ENTRANCE FOYER | 1 | 1.5/PERSON | 40 |
| 3 | DIRECTOR'S OFFICE | 1 | 25 | 25 |
| 4 | DIRECTOR'S SECRETARY ROOM | 1 | 15 | 15 |
| 5 | DEPUTY DIRECTOR OFFICE | 1 | 20 | 20 |
| 6 | MEDICAL SEPRINTENDANT'S OFFICE | 1 | 20 | 20 |
| 7 | DEPUTY MEDICAL SUPRINTENDANT'S OFFICE | 1 | 15 | 15 |
| 8 | MEDICAL SUPRINTENDANT'S ASSISTANT | 1 | 15 | 15 |
| 9 | ACCOUNTS OFFICER | 1 | 15 | 15 |
| 10 | RECORD ROOM KEEPER | 1 | 15 | 15 |
| 11 | RECORD ROOM | 1 | 35 | 35 |
| 12 | FINANCE OFFICER | 1 | 15 | 15 |
| 13 | MAINTENANCE OFFICER | 1 | 15 | 15 |
| 14 | SOCIAL WORKER ROOM | 1 | 35 | 35 |
| 15 | LIBRARY | 1 | 250 | 250 |
| 16 | CONFERENCE HALL | 1 | 100 | 100 |
| 17 | CAFETERIA | 1 | 60 | 60 |
| 18 | PANTRY | 1 | 15 | 15 |
| 19 | TOILET (M,F & HANDICAPPED) | 1 | 30 | 30 |
| 20 | CCTV MONITORING ROOM | 1 | 20 | 20 |
| 21 | POLICE PROVISION | 1 | 20 | 20 |
| 22 | SECURITY HEAD OFFICE | 1 | 12 | 12 |
| | TOTAL | | | 827 |
| | WITH 20% CIRCULATION | | | 992.4 |

| S.NO. | REQUIREMENTS | QUANTITY | AREA (SQ. M) | TOTAL AREA (SQ. M) |
|---------------------------------|---|----------|------------------------|--------------------|
| B. OUTPATIENT DEPARTMENT | | | | |
| 1 | RECEPTION CUM WAITING | 1 | 120 | 120 |
| 2 | OFFICE | 1 | 25 | 25 |
| 3 | CONSULTANT ROOMS PSYCHIATRIST COUNCILLING ROOM GROUP COUNCILLING FAMILY COUNCILLING THERAPIST PHYSICIAN | 15 | 20 | 300 |
| 4 | DAY CARE CENTER | 1 | 120 | 120 |
| 5 | DETOXIFICATION WARDS | 2 | 45 (FOR 6 PATIENTS) | 90 |
| 6 | RECOVERY ROOM | 4 | 45 (FOR 6 PATIENTS) | 180 |
| 7 | NURSE STATION | 16 | 20 | 320 |
| 8 | CLEAN UTILITY | 2 | 12 | 24 |
| 9 | DIRTY UTILITY/SLUICE ROOM | 2 | 12 | 24 |
| 10 | DRUG DISPENSING ROOM | 1 | 25 | 25 |
| 11 | LABORATORY (URINE & BLOOD TEST) | 1 | 35 | 35 |
| 12 | TOILET (M, F, H) | - | 20 | 20 |
| 13 | NURSE REST AREA | 2 | 20 | 40 |
| 14 | DOCTOR'S REST AREA | 2 | 20 | 40 |
| 15 | CAFETERIA | 1 | 60 | 60 |
| 16 | TOILET (VISITORS) | M, F, H | 40 | 40 |
| 17 | TOILET (STAFF) | M,F | 30 | 30 |
| 18 | STORE | 2 | 24 | 48 |
| | TOTAL | | | 1541 |
| | WITH 20% CIRCULATION | | | 1849.2 |

| S.NO. | REQUIREMENTS | QUANTITY | AREA (SQ. M) | TOTAL AREA (SQ. M) |
|----------------------|-------------------------|----------|--------------|--------------------|
| E. FACILITIES | | | | |
| 1 | LIBRARY | 1 | 100 | 100 |
| 2 | YOGA | 1 | 360 | 360 |
| 3 | MEDITATION | 1 | 100 | 100 |
| 4 | SPIRITUAL | 4 | 100 | 400 |
| 5 | SEMINAR HALL | 1 | 120 | 120 |
| 6 | AUDIO-VISUAL ROOM | 1 | 120 | 120 |
| 7 | INDOOR GAMES | 1 | 180 | 180 |
| 8 | INDOOR BADMINTION COURT | 2 | 100 | 200 |
| 9 | GYMNASIUM | 1 | 180 | 180 |
| 10 | LAUNDARY | 1 | 150 | 150 |
| 11 | KITCHEN WITH STORE | 1 | 50 | 50 |
| 12 | DINING (STAFF) | 1 | 30 | 30 |
| 13 | DINING (PATIENTS) | 1 | 60 | 60 |
| 14 | TOILET & BATHING (M) | 2 | 40 | 80 |
| 15 | TOILET & BATHING (F) | 2 | 60 | 120 |
| | TOTAL | | | 2250 |
| | WITH 20% CIRCULATION | | | 2700 |

| S.NO. | REQUIREMENTS | QUANTITY | AREA (SQ. M) | TOTAL AREA (SQ. M) |
|-------------------------------|-------------------|----------|--------------|--------------------|
| D. VOCATIONAL TRAINING | | | | |
| 1 | COMPUTER TRAINING | 1 | 180 | 180 |
| 2 | POTTERY MAKING | 1 | 120 | 120 |
| 3 | PAINTING | 1 | 160 | 160 |
| 4 | LECTURE ROOM | 2 | 60 | 120 |
| 5 | SEWING & KNITTING | 1 | 160 | 160 |
| 6 | HANDICRAFT ROOM | 1 | 200 | 200 |
| 7 | CANDLE MAKING | 1 | 80 | 80 |
| 8 | PACKAGING | 1 | 120 | 120 |
| 9 | TOY MAKING | 1 | 120 | 120 |
| 10 | PRINTING | 1 | 240 | 240 |
| 11 | EXHIBITION HALL | 1 | 200 | 200 |
| 12 | MATERIAL STORAGE | 1 | 80 | 80 |
| | TOTAL | | | 1780 |
| WITH 20% CIRCULATION | | | | 2136 |

| S.NO. | REQUIREMENTS | QUANTITY | AREA (SQ. M) | TOTAL AREA (SQ. M) |
|--------------------------------|----------------------|----------|------------------|--------------------|
| C. INPATIENT DEPARTMENT | | | | |
| 1 | DOCTORS ON DUTY | 1 | 100 (FOR 4 P) | 100 |
| 2 | NURSE STATION | 1 | 120 (FOR 6 P) | 120 |
| 3 | ISOLATION WARDS | 4 | 12 | 48 |
| 4 | SINGLE BEDDED ROOM | 7+2 | 12 | 108 |
| 5 | SEMI-PRIVATE ROOM | 7+2 | 20 | 180 |
| 6 | GENERAL WARDS | 3+1 | 60 (FOR 6 P) | 240 |
| 7 | DETOX WARD | 2 | 210 | 420 |
| 8 | RELAPSE WARD | 3+2 | 10 | 50 |
| 9 | COUNCELLOR ROOM | 4 | 20 | 80 |
| 10 | CHECK-UP ROOM | 2 | 12 | 24 |
| 11 | REST ROOM | 3 | 20 | 60 |
| 12 | REST ROOM | 8 | 20 | 160 |
| 13 | RECORD ROOM | 2 | 12 | 24 |
| 14 | VISITOR'S ROOM | 2 | 35 | 70 |
| 15 | CLEAN UTILITY | 1 | 20 | 20 |
| 16 | DIRTY UTILITY | 1 | 20 | 20 |
| 17 | DRUG DISPENCING ROOM | 1 | 30 | 30 |
| 18 | EQUIPMENT STORE ROOM | 1 | 15 | 15 |
| 19 | PANTRY | 1 | 25 | 25 |
| 20 | LOCKER ROOM | 1+1 | 20 | 40 |
| 21 | CAFETERIA | 1 | 60 | 60 |
| 22 | TOILET & BATHING (M) | 2 | 40 | 80 |
| 23 | TOILET & BATHING (F) | 2 | 60 | 120 |
| | TOTAL | | | 2094 |
| WITH 20% CIRCULATION | | | | 2512.8 |

| S.NO. | REQUIREMENTS | QUANTITY | AREA (SQ. M) | TOTAL AREA (SQ. M) |
|----------------------|--------------------|----------|--------------|--------------------|
| F. RESIDENTIAL | | | | |
| 1 | DOCTOR'S RESIDENCE | 8 | 80 | 640 |
| 2 | STAFF RESIDENCE | 24 | 45 | 1080 |
| | TOTAL | | | 1720 |
| WITH 20% CIRCULATION | | | | 2064 |

ADMINISTRATION

- OFFICES
- RECORDS ROOM
- MAINTENANCE
- LIBRARY
- SECURITY

OUTPATIENT DEPARTMENT

- CONSULTANTS
- COUNCELLING
- THERAPY
- DAYCARE
- DETOXIFICATION
- DRUG DISPENSING

INPATIENTDEPARTMENT

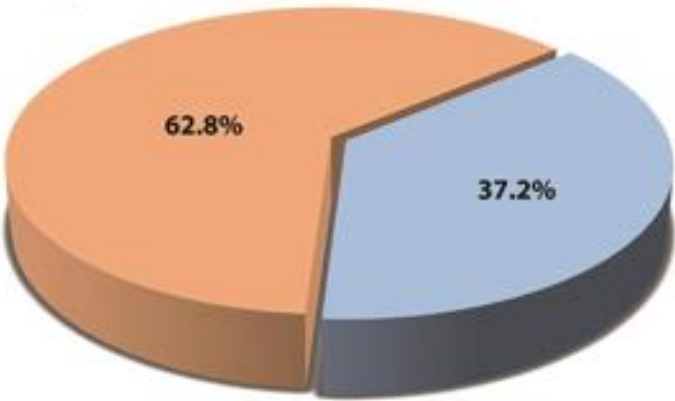
- WARDS
- DETOXIFICATION
- COUNCELLING
- DRUG DISPENSING
- RECORD ROOM
- VOCATIONAL TRAINING
 1. COMPUTER TRAINING
 2. POTTERY MAKING
 3. PAINTING
 4. SEWING & KNITTING
 5. HANDICRAFT
 6. CANDLE MAKING
 7. TOY MAKING

RESIDENTIAL

- DOCTOR'S RESIDENCE
- STAFF QUATERS

LEDENDS:-

- DOCTOR'S RESIDENCE, 640M²
- STAFF RESIDENCE, 1080M²



LITERATURE STUDY- 1

MUKTANGAN REHABILITATION CENTRE

LITERATURE STUDY: 1,
MUKTANGAN REHABILITATION CENTRE

INTRODUCTION:

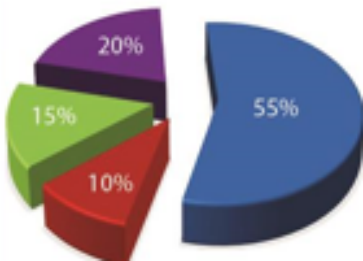
THE MUKTANGAN REHABILITATION CENTRE WAS ESTABLISHED :IN 1986 BY THE LATE DR. ANITA AWACHAT. THE MUKTANGAN REHABILITATION CENTRE WORKS HARD TO HELP INDIVIDUALS CHANGE THEIR LIVES. LOCATED IN PUNE - ALANDI ROAD, MAJI SAINIK NAGAR, MOHANWADI, YE-RAWADA, PUNE, MAHARASHTRA 41 1006.THE ARCHITECT OF THE MUK-TANGAN REHABILITATION CENTRE IS AR. SHRISH BERI.



ENTRY

THERE IS ONLY ONE ENTRY TO THE DE-ADDICTION CENTRE. THE SAME ENTRY IS ALSO FOR USED FOR SERVICES PU-RPOSES. WHICH IS KEPT LOCKED ALL THE TIMES DUE TO SECURITY REASONS.

| S NO. | CATEGORY | ACTIVITIES |
|-------|----------------------|---|
| 1. | CORE FUNCTION | • COUNSELLING ROOM • GENERAL WARD • YOGA/MEDITATION ROOM • WARD & THERAPY ROOM |
| 2. | RECREATIONAL SPACES | • U/G. TANK WITH SEATING ABOVE • STAGE & AMPHITHEATRE • TERRACE |
| 3. | AUXILIARY ACTIVITIES | • DINING HALL • SERVANT'S ROOM • KITCHEN • LIBRARY |
| 4. | GENERAL SERVICE AREA | • ARRIVAL & O.P.D. • STORE • VERANDAH • GAS • WASHROOMS • STAIRCASE |



CONCEPT FOR DESIGN:

- CENTRE IS DESIGNED BY KEEPING THE CONCEPT OF MAKING PATIENTS FEEL UNITED AND INCREASING THE SOCIAL DIALOGUE BETWEEN THEM. THUS, THE APPROACH IS TOWARDS INTROVERT PLANNING.
- IN THE CENTRE THERE IS FIXED SCHEDULE FOR ADMITTING AND DISCHARGING THE PATIENTS THUS A PROPER GROUP OF 15 TO 20 PATIENTS GET FORM FROM THE FIRST DAY AND THUS THE CATEGORY OF PATIENTS UNDER SAME MENTAL PHASE GET GROUPED AND LIVED TOGETHER THROUGH-OUT THE TREATMENT.
- AND THUS A BETTER MENTAL AND PHYSICAL SUPPORT IS BEING OBSERVED AMONG THE PATIENTS. THE FORM OF THE BUILDING GIVES IT A LOOK OF A BUNGALOW AND THUS A HOMELY ENVIRONMENT TO THE PATIENTS



ARCHITECT
AR. SHRISH BERI.



BUILDING TYPE
DRUG REHAB INSTITUTION



STARTED
29TH AUGUST, 1986



USERS
DOCTORS, NURSES,
PATIENTS



SITE AREA
3704 M²



OCCUPANCY
TOTAL CAPACITY-125



STOREYS
G+2



RAINFALL
AVERAGE RAINFALL 763MM



DINING HALL



O.A.T



GENERAL WARD



COUNSELLING ROOMS



ENTRANCE LOBBY



MAINE ENTRANCE

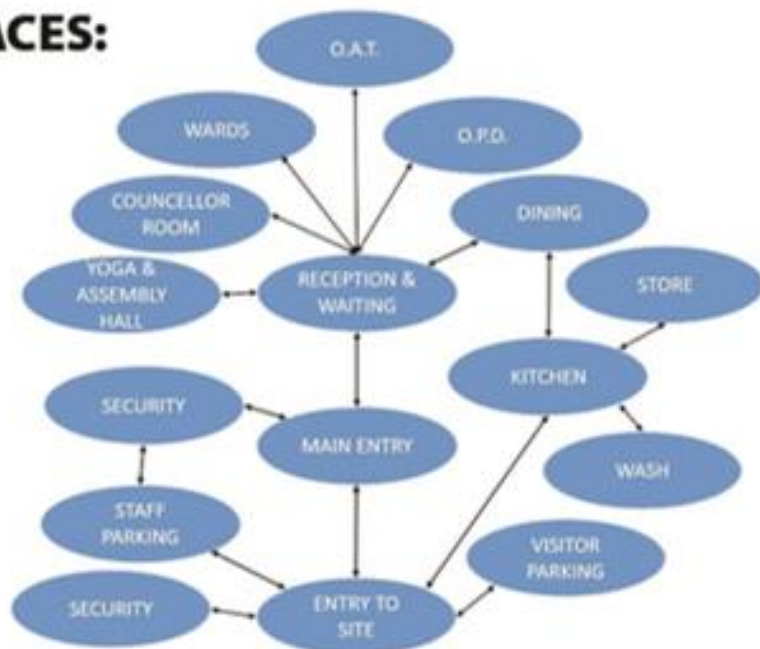
GROUND FLOOR PLAN

PLANNING & CIRCULATION

- THE BUILDING IS A COMBINATION OF ROUGH STONEWALLS INTERSECTED WITH SMOOTHER FINISHES.
- IN THIS BUILDING THERE IS A PERFECT COMBINATION OF OPENNESS AND DISCIPLINE OF THE PHASE.
- THERE IS A PERFECT USE OF CUT-OUTS, TERRACES TO GIVE OPENNESS, PHYSICAL AND VISUAL INTERACTION.
- THE COUNSELING ROOMS AND ADMINISTRATION AREA ARE RADICALLY LOCATED AROUND THE RECEPTION AND WAITING AREA.
- THERE IS A SMALL AMPHITHEATER AT THE CENTRE OF THE BUILDING. RAISED PLASTERS AT THE WINDOW STILL ARE USED TO CHEER PATIENTS AS SOON AS THEY ENTER THE COUNSELING ROOMS.
- THE WARDS AND KITCHEN, DINING IS LOCATED ON EITHER OF THE AMPHITHEATER.
- THERE ARE 3 WARDS IN THE BUILDING NAMELY ONE AFTER CARE WARD AND TWO GENERAL WARDS
- EACH WARD HAS 1 BALCONY THAT OPENS UP IN THE CENTRAL AMPHITHEATER.
- THE TERRACE IS USED FOR P.P.T

PROVIDED SPACES:

- ARRIVAL & WAITING
- GENERAL WARD
- CO-ORDINATOR
- COUNCELLOR ROOM
- PSYCHIATRIST
- SOCIAL WORKER
- EXHIBITION
- SERVANT'S ROOM
- STAGE & AMPHITHEATER
- STORE
- VERANDAH
- KITCHEN
- DINING HALL
- LIBRARY



SITE ZONING LEGEND

- MAIN BUILDING BLOCK
- PHASE 2 EXPANSION
- PAVEMENT
- GREEN AREA



APPROACHES TO THE SITE:

RAILWAY STATION – 25KM
BUS STAND – 30KM
AIRPORT – 15KM



SURROUNDING

- CENTRE IS SURROUNDED BY RESIDENTIAL AREA.
- A NALA LIES ON SOUTHWEST SIDE.
- AT ONE CORNER OF ROAD IT HAS SHOPPING COMPLEX
- NEARBY HOSPITAL:-SHAITHIA HOSPITAL(200M) AND KIM HOSPITAL(8KM)

TOPOGRAPHY

- THERE IS A SLOPE TO THE SITE TOWARDS NALA. SOIL IS BLACK COTTON SOIL.



USE OF STONE ON FACADE



GROUND FLOOR LEGEND

1. ARRIVAL & WAITING
2. GENERAL WARD
3. CO-ORDINATOR
4. COUNCELLING ROOM
5. PSYCHIATRIST
6. SOCIAL WORKER
7. EXHIBITION
8. SERVANT'S ROOM
9. STAGE & AMPHITHEATER
10. STORE
11. VERANDAH
12. KITCHEN
13. DINING HALL

INSIDE SPACES:

OPEN AIR THEATER- A VARIETY OF INTERACTIVE SPACES HAVE BEEN PROVIDED IN THE CENTER. BARI'S CONCERN OR THE PROJECT INCLUDE WHETHER ARCHITECTURE COULD PROVIDE THE REQUIRED THERAPEUTIC SPACES BY BRINGING MAN CLOSER TO NATURE AND ALSO INCREASE INTERACTION AMONG THE PATIENT

NISHIGANDHA-

IT IS EXTENSION OF MUKTANGAN FOR FEMALE PATIENTS, 25 PATIENTS ONLY.

GUARD ROOM-

GUARD ROOM IS PROVIDED FOR THE SECURITY CHECK OF THE FAMILY MEMBERS COMING TO MEET THE PATIENTS.

PARKING-

VEHICLES ARE PARKED UNDER THE PROJECTION OF THE BUILDING.

KIND OF CONSTRUCTION:

THE CONSTRUCTION TYPE USED IN THE BUILDING WAS RUBBLE MASONRY AND REINFORCED CONCRETE WORK. THE FORM OF STRUCTURE IS FORMFOLLOW FUNCTION BASED. HEIGHT OF THE BUILDING IS 15 METER. THE CURVES AND OPENNESS IN THE ELEVATION EXPRESSTHE SENSE OF SAFETY, TRANSPARENCE, VISION, UNIFICATION, INTERACTION.



O.A.T.



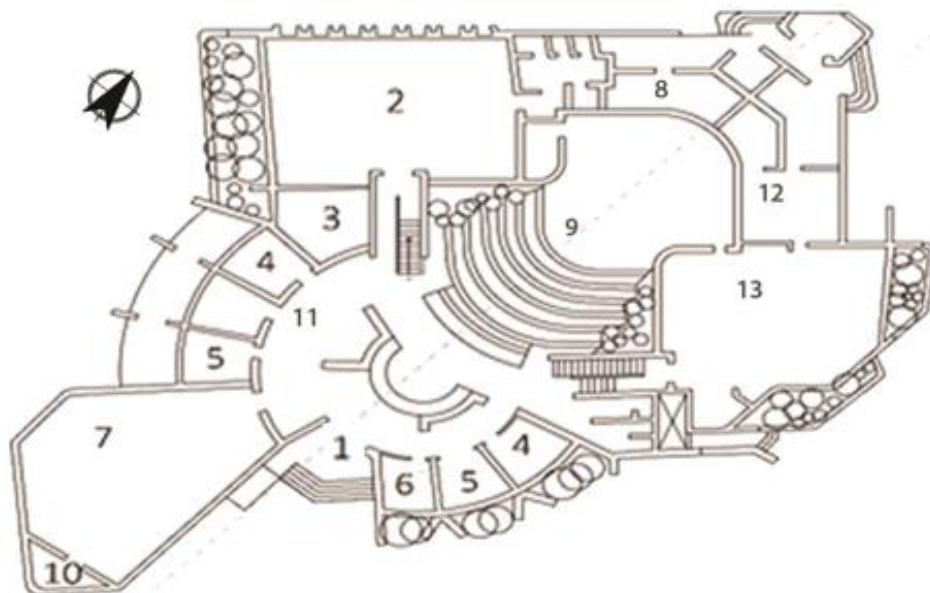
FEMALE WARD



HARD LANDSCAPED



VEHICLE PARKING

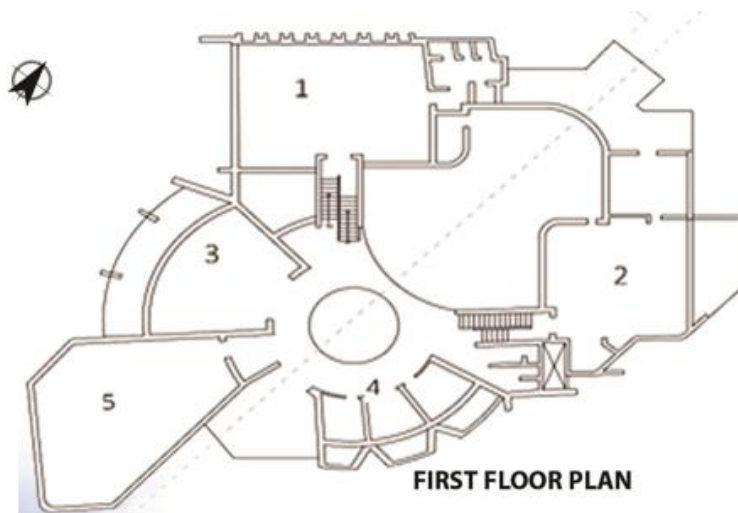


GROUND FLOOR PLAN

GROUND FLOOR

LEGEND

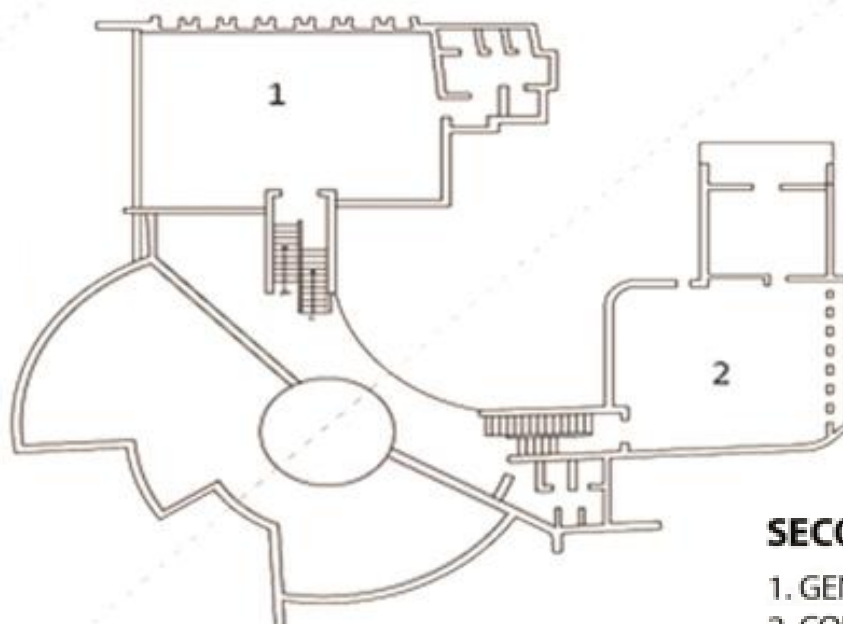
1. ARRIVAL & WAITING
2. GENERAL WARD
3. CO-ORDINATOR
4. COUNCELLING ROOM
5. PSYCHIATRIST
6. SOCIAL WORKER
7. EXHIBITION
8. SERVANT'S ROOM
9. STAGE & AMPHITHEATER
10. STORE
11. VERANDAH
12. KITCHEN
13. DINING HALL



FIRST FLOOR PLAN

FIRST FLOOR LEGEND

1. GENERAL WARD
2. COUNCELLING ROOM
3. LIBRARY
4. WARD & THERAPY HALL
5. TERRACE



SECOND FLOOR PLAN

SECOND FLOOR LEGEND

1. GENERAL WARD
2. CONFERENCE HALL



ENTRANCE LOBBY



AMPHITHEATER ARIAL VIEW

CROSS VENTILATION ALSO CALLED WIND EFFECT VENTILATION) IS A NATURAL METHOD OF COOLING. THE SYSTEM RELIES ON WIND TO FORCE COOL EXTERIOR AIR INTO THE BUILDING THROUGH AN INLET (LIKE A WALL LOUVER, A GABLE, OR AN OPEN WINDOW) WHILE OUTLET FORCES WARM INTERIOR AIR OUTSIDE (THROUGH A ROOF VENT OR HIGHER WINDOW OPENING).

KNOWING HOW THE FRESH AIR CIRCULATES WITHIN A STRUCTURE. AROUND THE PEOPLE INSIDE, AND THROUGH ITS OPENINGS IS CRUCIAL TO DETERMINING HOW TO OPTIMIZE COOLING AND IMPROVE AIR QUALITY. YOU CAN FIND THIS BY LOOKING AT THE BUILDING'S INLETS AND OUTLETS.

INFERENCES:

- ACTIVATES ARE PLACED AROUND THE CENTRAL AXIS - WHICH ENHANCE INTERACTION AND REDUCE ALIENATION
- THE WAITING IS MADE LIVELY AND FRESH BY AMPLE LIGHT AND GREENERY
- TRANSPARENT SPACES HAD BEEN CREATED BY THE USE OF GLASS FAÇADE
- BEAUTIFUL BALANCE BETWEEN BUILT UP AND OUTDOOR SPACES
- CENTRAL OPEN-AIR THEATRE UNIFIES PUBLIC AND PRIVATE SPACES
- THERE IS A BALANCE BETWEEN DISCIPLINARY CONTROL AND SENSE OF FREEDOM
- WINDOW AND OPENING ARE DESIGNED AS SUCH NO DIRECT SUN RAYS ENTER THE ROOM
- PATIENT SITTING, RELAXING MOVING AS SUCH THAT VISUAL CONNECTIVITY IS MAINTAINED AND THEY ARE INCONTINUOUS WATCH BY THE COUNSELLORS
- GREENERY IN THE WAITING AREA REDUCES THE WAITING STRESS BUT CAN'T BE USED IN RAINY SEASON
- FEELING OF OPENNESS CUT OUT FROM THE ARRIVAL LOBBY BRINGS LIGHT AND AIR AMPHITHEATRE BINDS THE BUILDING, CREATING A SENSE OF BELONGING.

CASE STUDY-1

NATIONAL DRUG-DEPENDENCE CENTRE, GHAZIABAD

CASE STUDY: 1, **NATIONAL DRUG-DEPENDENCE CENTRE, GHAZIABAD**

INTRODUCTION:

THE DRUG DEPENDENCE TREATMENT CENTRE, AIMS WAS ESTABLISHED IN THE YEAR 1988 AND WAS FUNCTIONAL FROM THE PREMISES OF THE DEENDAYAL UPADHYAY HOSPITAL, NEW DELHI. IN 2003 IT WAS UPGRADED AS THE NATIONAL CENTRE (NATIONAL DRUG DEPENDENCE TREATMENT CENTRE) AND IS FULLY OPERATIONAL FROM ITS NEW PREMISES IN GHAZIABAD, DELHI-NCR SINCE APRIL 2003



LOCATION:

SECTOR 19, KAMLA NEHRU NAGAR, NEARC.G.O. COMPLEX. HAPUR ROAD, GHAZIABAD UTTAR PRADESH

LANDMARKS:

1. POST OFFICE, KAMLA NEHRU NAGAR, GHAZIABAD
2. KENDRIYA VIDYALAYA
3. GHAZIABAD CENTRAL GST COMMISSIONERAT
4. REGIONAL PASSPORT OFFICE
5. DAYANAND CHOWK



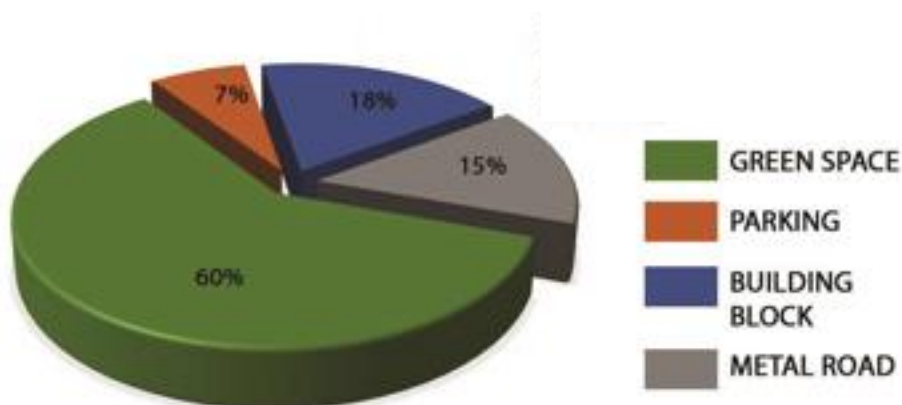
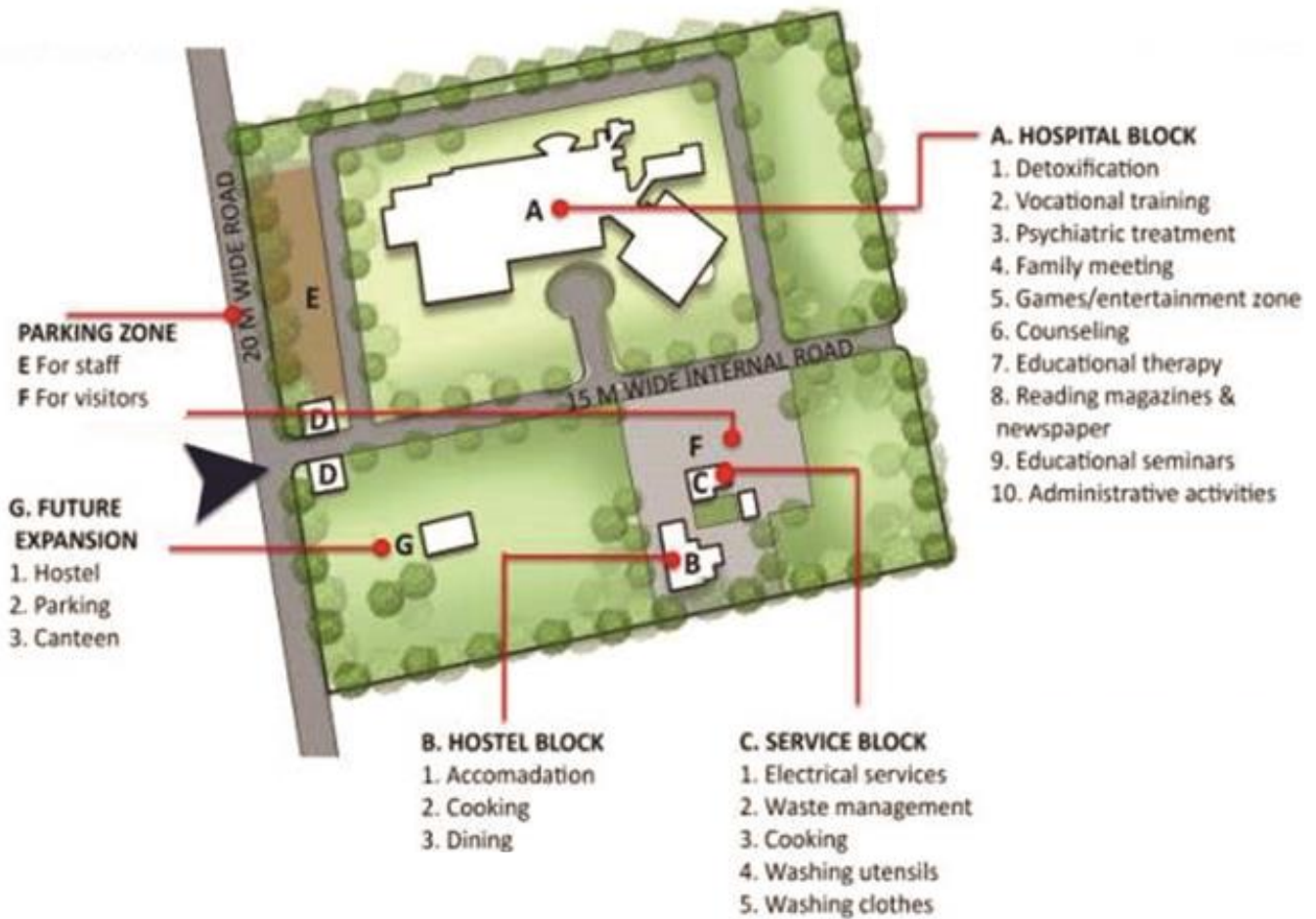
OBJECTIVE OF CASE STUDY:

THE CENTRE IS UNDER AIMS AND TI IS THE BEST DRUG DE ADDICTION CENTRE IN UTTAR PRADESH AND THE NEARBY AREA OF DELHI.

CONCEPT FOR DESIGN:

THIS CENTRE IS ESTABLISHED FOR THE TREATMENT OF PATIENTS IN A WIDE VARIETY OF DISORDERS INCLUDING ALCOHOL DIAGNOSIS, TOBACCO CESSATION. THE CONCEPT IS TO MINIMIZE THE BUILT UP AREA AND MAXIMIZE THE OPEN SPACES FOR PROVIDING NATURAL ENVIRONMENT WHICH FURTHER INCREASES THE RATE OF RECOVERY OF THE PATIENTS

SITE ZONING:



**ARCHITECT**

VARUN SHARMA,
SENIOR CONSULTANT

**STARTED**

SINCE APRIL, 2003

**SITE AREA**

10 ACRE

**STOREYS**

G+2

**BUILDING TYPE**

DRUG REHAB INSTITUTION

**USERS**

DOCTORS, NURSES, PATIENTS

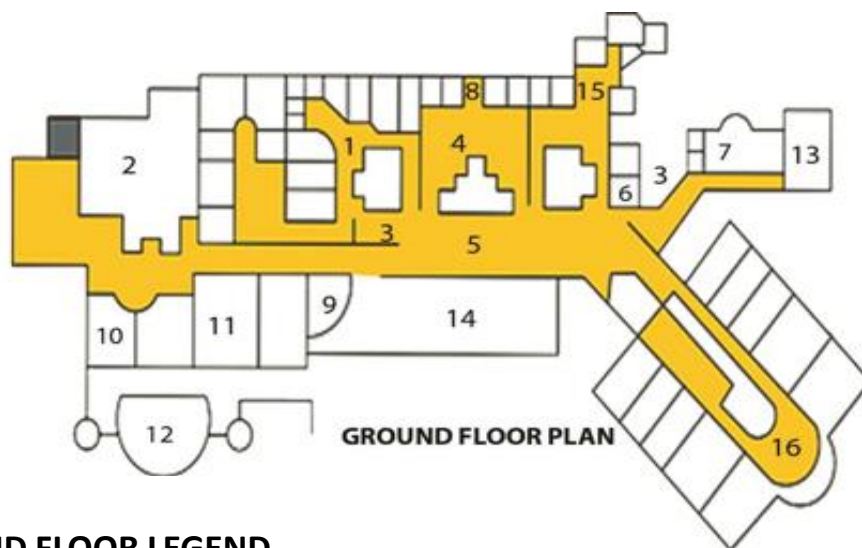
**OCCUPANCY**

50 BEDDED

**ENTRANCE TO OPD****GREEN AREA****MAIN ENTRANCE****PROVIDED SPACE:**

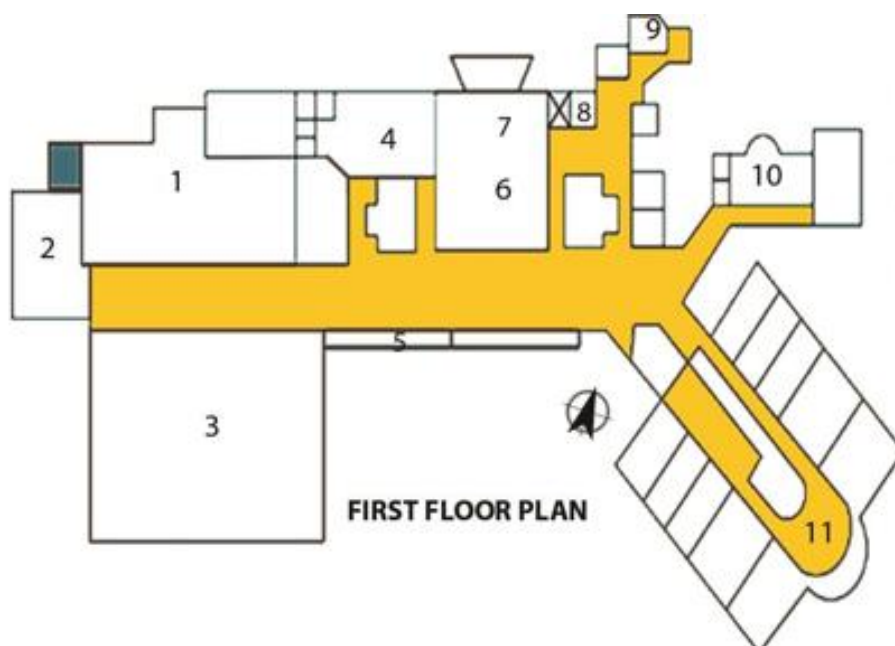
- CONFERENCE HALL
- WARDS
- ADMINISTRATIVE OFFICE
- NURSE CUBICAL
- ACTIVITY AREA
- SAMPLE COLLECTION
- RECORD ROOM
- DAY CARE UNIT
- HOSTEL
- CANTEEN
- REGISTRATION DESK
- ENQUIRY OFFICE
- O.P.D.
- LABS
- PHARMACY
- TREATMENT ROOM
- CONSULTATION ROOM
- DUTY OFFICER'S ROOM
- LIBRARY





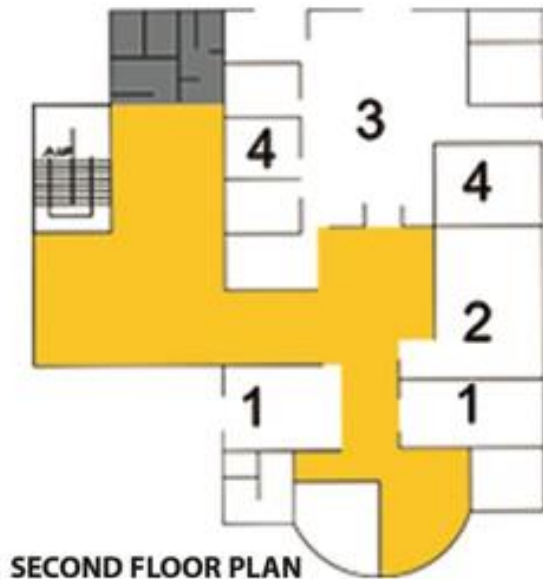
GROUND FLOOR LEGEND

1. CONSULTANTS ROOM
2. LABORATORY
3. OUT-PATIENT DEPARTMENT
4. PERCEPTION WITH STAIRS
5. IMPATIENT DEPARTMENT
6. WAITING AREA (FAMILY)
7. RECREATIONAL ROOM
8. RAMP FOR HANDICAPPED
9. ENTRANCE / REGISTRATION
10. STORE
11. DIRECTOR'S OFFICE
12. CONFERENCE ROOM
13. SERVICES
14. CORRIDOR
15. MALE & FEMALE TOILET WITH DRINKING WATER FACILITY
16. PATIENT BLOCK (WARD) WITH TOILET & NURSE CARE ROOM



FIRST FLOOR LEGEND

1. LIBRARY
2. LIBRARY'S HEAD ROOM
3. CLASSROOM
4. CONSULTANT ROOM
5. BALCONY
6. STAIRCASE
7. DOCTOR'S LOUNGE
8. FACILITY OFFICE
9. BALCONY
10. DAYCARE & ACTIVITY ROOM
11. PATIENT WARDS



SECOND FLOOR LEGEND

1. DIRECTOR'S OFFICE
2. CONFERENCE HALL
3. OPEN OFFICE
4. ROOM



INDOOR SPACES:

LABORATORY-

TWO DIFFERENT LABORATORY ARE BUILT, ONE FOR URINE TEST AND OTHER FOR BLOOR TEST BOTH PLACED AT GROUND FLOOR.

WARDS-

THERE ARE TOTAL 10 WARDS, 5 WARDS PER FLOOR, WHICH ACCOMMODATE AROUND 50 BEDS. MAXIMUM USE OF NATURAL LIGHT IN WARDS BY PROVIDING LARGE WINDOWS. DIFFERENT CUBICAL ARE PROVIDED FOR DIFFERENT AGE GROUPS AND FOR FEMALES DIFFERENT CUBICAL PROVIDED BUT NO PRIVACY IS MAINTAINED BECAUSE ALL CUBICALS ARE OPEN.

NURSE CUBICALS-

NURSE CUBICAL IS PLACED IN SUCH A MANNER SO THAT NURSE CAN KEEP A WATCH ON ALL PATIENTS.

DAY CARE CENTER & ACTIVITY ROOM-

BOTH THE FUNCTIONS ARE PROVIDED IN A SINGLE HALL AT FIRST FLOOR. THE FIRST FLOOR HAS A LIBRARY AT THE ENTRENCE WHICH IS ACCOMPANIED BY FOUR CLASSROOMS. AT THE OPPOSITE CORNER THERE ARE DIFFERENTS AREAS ARE PROVIDED LIKE ASSISTANT ROOMS, WARDS, TOILETS ETC. THE SECOND FLOOR HAS ADMINISTRATIVE AREA AND DOCTORS ROOM.



OTHER FEATURES:

THE SKY LIGHT IS PROVIDED FOR GETTING MAXIMUM NATURAL LIGHT AT DAY TIME.

AND CUT OUT IS PROVIDE AT THE FIRST FLOOR SO THAT MAXIMUM LIGHT CAN REACH AT THE GROUND FLOOR CORRIDOR.THIS IS A GOOD WAY TO USE NATURAL LIGHT IN BUILDING.FOR INWARD PATIENTS TOILETS ARE BEING PLACED JUST NEXT TO THE WARD BECAUSE DURING WITHDRAWL THEY FREQUENTLY VISIT THE TOILET.

INFERENCES:

- THERE ARE NO SEMI COVERED SPACES TO CONDUCT GROUP ACTIVITIES.
- THERE ARE NO ACTIVITY AREAS INSIDE THE BUILDING OR IN THE GREEN AREA.
- SCOPE OF EXPANSION OF THE MAIN BUILDING IS LEFT TO CATER THE INCREASING DEMAND IN FUTURE, HOWEVER AFTER THE EXPANSION THERE WILL BE NO OPEN SPACES LEFT AND THE BUILDING WILL WORK AS A TYPICAL HOSPITAL.
- ALL THE ROOMS HAVE WINDOWS BUT THE CORRIDORS REMAIN DIMLY LIT DURING THE DAY TIME.
- OPENINGS MUST BE LONG AND WIDE FOR GOOD AIR CIRCULATION.
- GREEN AREA ONLY IN THE FRONT OF REAR SIDE OF THE BUILDING.



FIRE FIGHTING-

FIRE ALARM AND FIRE EXTINGUISHERS ARE PLACED AT ALL THE ESCAPE ROUTES A TOTAL OF FIRE ALARMS WERE INSTALLED THUS COVERING EVERY PART OF THE BUILDING.

FIRE HYDRANTS INSTALLED NEAR ESCAPE ROUTES 4 HOSE REELS WERE INSTALLED AT 4 CORNERS OF THE BUILDING AND ITS LENGTH WAS 70 M EACH FIRE HOSE IS EITHER CONNECTED TO FIRE ENGINE OR FIRE HYDRANT INDOORS.

IT IS PERMANENTLY CONNECTED TO THE BUILDING'S PLUMBING SYSTEM



CASE STUDY-2

SANJIVINI, NEW DELHI

CASE STUDY: 2, SANJIVINI, NEW DELHI



ESTABLISHED IN 1976, SANJIVINI IS A REGISTERED NON-PROFIT VOLUNTARY ORGANIZATION THAT HAS BEEN ADDRESSING THE MENTAL HEALTH NEEDS OF THE COMMUNITY FOR OVER FOUR DECADES. THEIR ROOTS GO BACK TO A GROUP OF COMMITTED INDIVIDUALS WHO SET UP THIS ORGANIZATION, RECOGNIZING THAT A PATIENT EAR AND A SUPPORTIVE ENVIRONMENT CAN HELP ONE FIND THE STRENGTH THEY NEED TO OVERCOME THE COMPLICATIONS IN THEIR LIFE.

LOCATED IN NEW DELHI. SOUTH OF IT, NEAR FAI, BUS STAND, A - 6, SATSANG VIHAR MARG, BLOCKA. OUTAB INSTITUTIONAL AREA



ARCHITECT
AR. JASBIR SAWHNEY
& ASSOCIATES



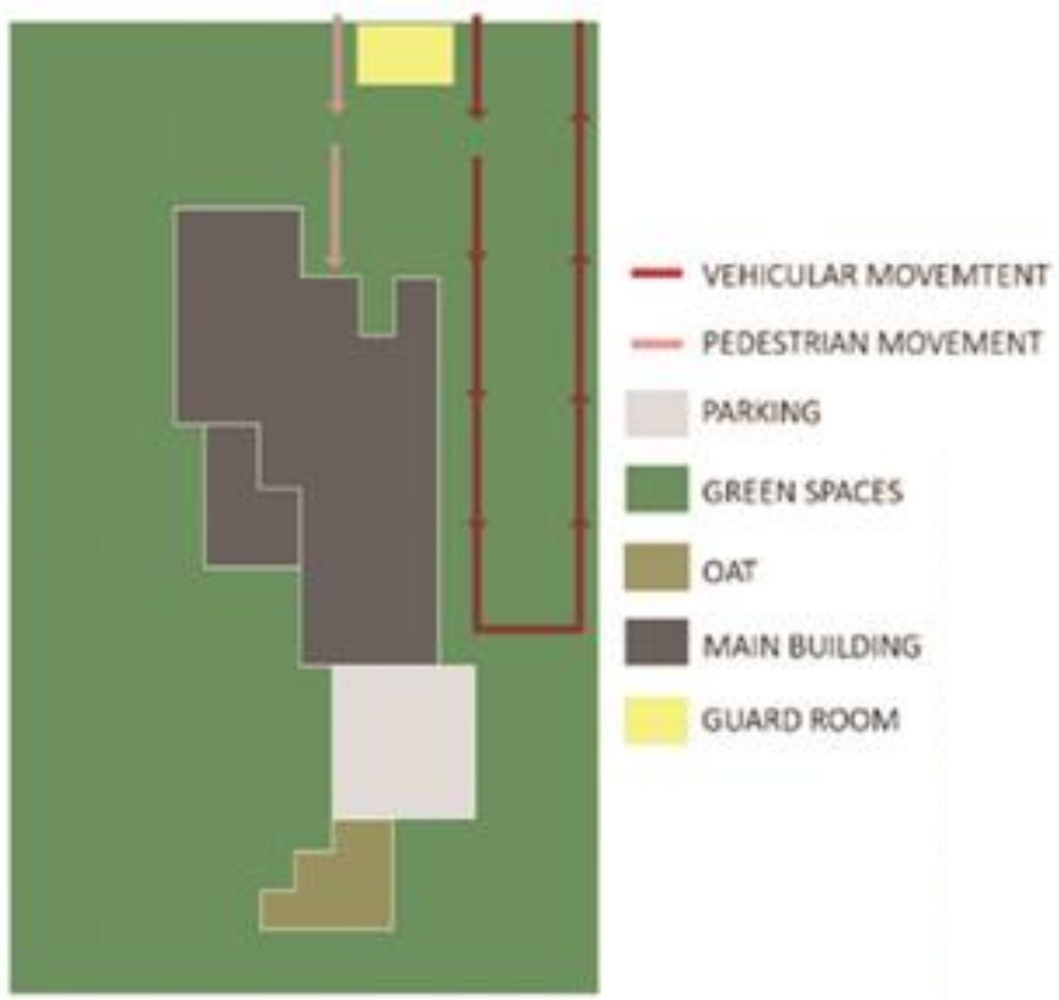
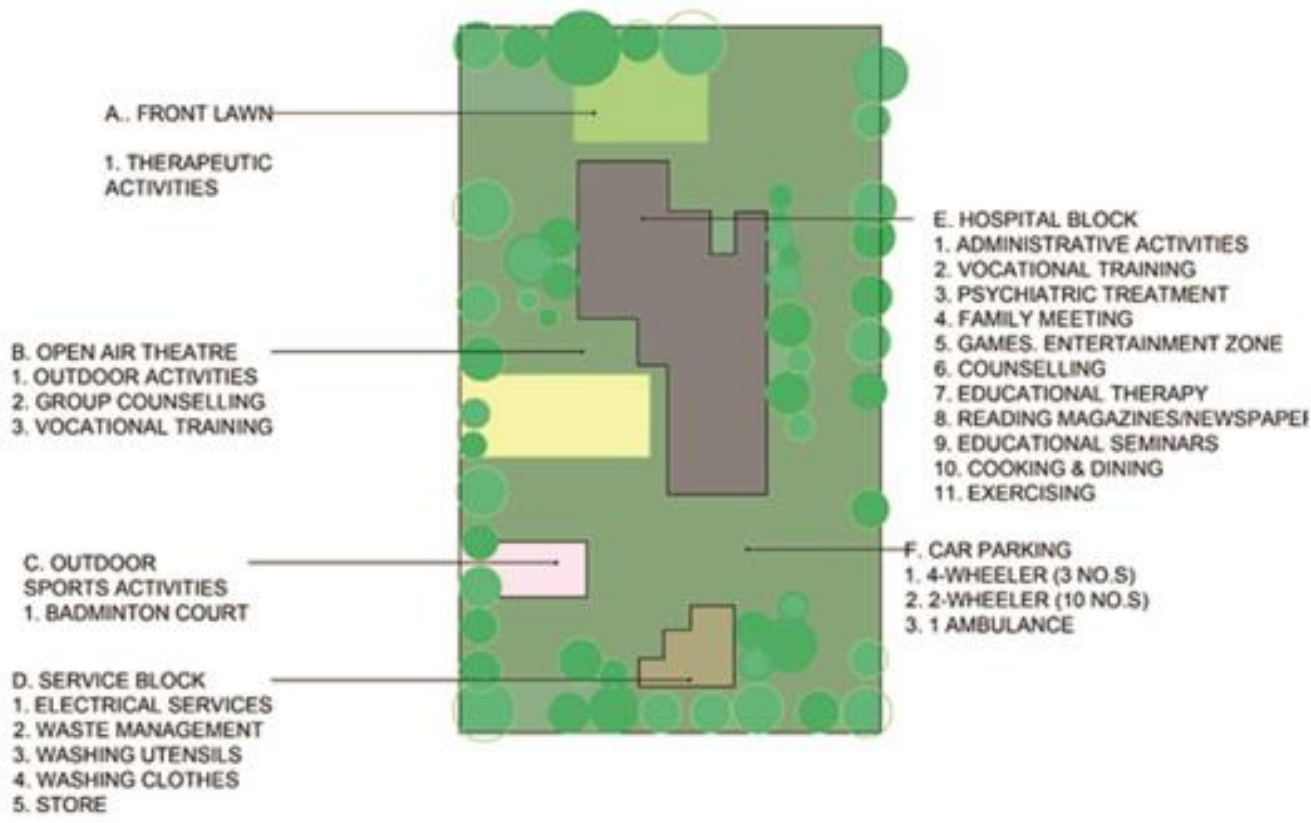
SITE AREA
1906 M²



OCCUPANCY
TOTAL CAPACITY-25



APPROACH
BUS STAND : 21.8 KM
RAILWAY STATION : 25.1 KM
METRO STATION : 3.8 KM
AIRPORT : 9 KM



LEGEND

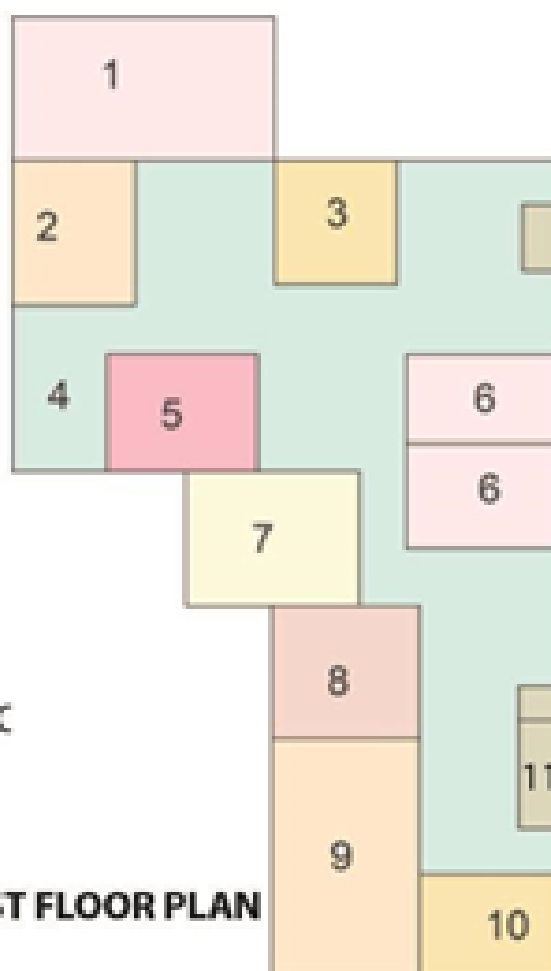
1. COUNSELLING ROOM
2. GROUP COUNSELLING ROOM
3. WAITING AREA
4. RECEPTION
5. ENTRANCE
6. TOILET
7. OFFICE
8. DINING AREA
9. DIRECTOR'S OFFICE
10. RECORD ROOM
11. STAIRS



GROUND FLOOR PLAN

LEGEND

1. POTTERY WORKSHOP
2. MEDITATION/YOGA
3. LIBRARY
4. COMPUTER SECTION
5. GROUP COUNSELLING
6. STORE
7. COUNSELLOR'S ROOM
8. KITCHEN
9. DISCUSSION/MEETING RC
10. GYMNASIUM
11. STAIRS



FIRST FLOOR PLAN

SITE FEATURES

- SUNKEN COURTYARD- IT HAS MULTIPLE FUNCTIONS, IS A HIGHLIGHT OF THIS BUILDING. IT IS USEFUL IN MANY WAYS AS IT KEEPS THE BASEMENT WELL VENTILATED.
- LANDSCAPE FEATURES- TALL TREES ON THE EDGES OF THE SITE CREATES A BUFFER ZONE FROM OUTER ENVIRONMENT AND ALSO INCREASES THE NATURAL BEAUTY AS WELL AS THE THERAPEUTIC VALUE OF THE CENTRE. BOUNDARY WALLS ARE COVERED WITH FLOWERING CREEPERS. FRONT WALL IS WELL MAINTAINED. FOOT LIGHTS ARE USED IN FRONT LAWN, LAMP POST ARE USED IN THE COURTYARD.
- EXTERNAL ANALYSIS-THERE IS EXPOSED BRICK WORK ON BUILDING FACADE. THE GLASS WINDOWS OVERLOOKING THE GREEN AREAS WHERE THE PATIENTS GENERALLY HANGOUT MAKE IT EASY FOR THE COUNSELLOR TO KEEP AN EYE ON THE ACTIVITIES OF THE PATIENTS.



SERVICES

WATER SUPPLY: IS FROM THE MUNICIPALITY. THERE ARE OVERHEAD TANKS, 2000 LITRES EACH. WATER IS STORED IN 25 LITRES CANS. FILTERING MACHINES ARE USED FOR DRINKING WATER.

ELECTRIC SUPPLY-50 KWA, 3 PHASE SUPPLY. GENERATORS ARE USED IN CASE OF ANY POWER FAILURE. SEWAGE SYSTEM-SEWAGE LINE IS RUNNING ALONG THE ROAD. BASEMENT IS ALSO USED AS DAY CARE CENTRE WITHOUT ANY PARTITION WALLS MANY ACTIVITIES SUCH PAINTINGS, POTTERIES, ETC.

INFERENCES: ALL THE THERAPEUTIC AREAS CAN OVERLOOK THE GREEN AREA. THE SUNKEN COURT PROVIDES A NATURAL AND HEALTHY INTERACTION. DISCUSSION AND MANY OTHER GROUPS ACTIVATES. NO DETOXIFICATION UNIT IN THE BUILDING. A CLOSE RELATIONSHIP BETWEEN BUILT AND OPEN ENVIRONMENT. BRIGHT COLOURS ARE USED IN INTERIOR AND EXTERIOR.

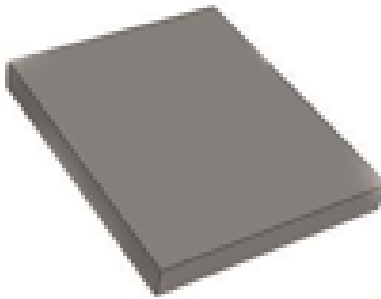
CONCEPT

CONCEPT

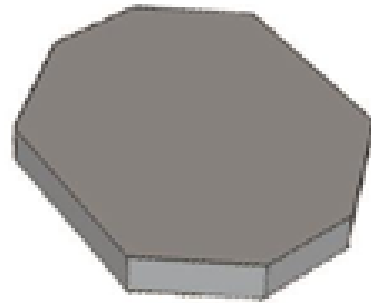
FORM EVOLUTION

TRANSFORMATION OF A BASIC CUBOID INTO AN ENCLOSURE.

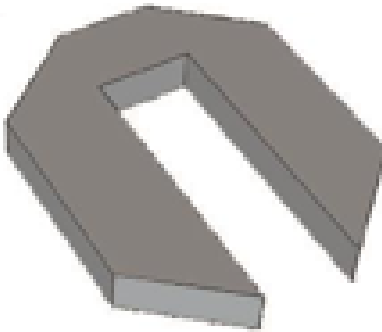
THE ENCLOSURE, IS HEALING IN NATURE AS IT WELCOMES THE PATIENTS WITH OPEN ARMS AND PROVIDES AN INNER SPACE FOR THEIR WELFARE. THE INNER SPACE PROVIDES FOR INTERACTION, ACTIVITIES, ETC FOR THE MUCH NEEDED CHANGE OF ENVIRONMENT FOR A PATIENT.



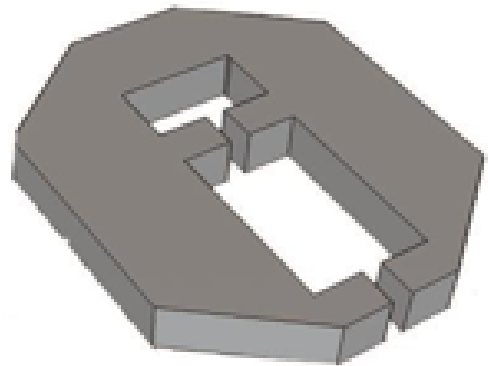
THE BASIC CUBOIDAL FORM IS TAKEN AS PER THE SHAPE OF SITE.



TRANSFORMATION OF BASIC FORM THROUGH SUBTRACTION.



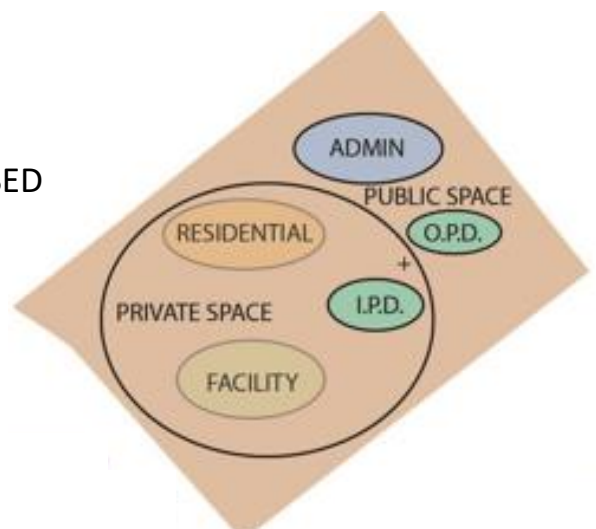
CREATING INTERNAL OPENING FOR CLOSED HABITABLE SPACE.



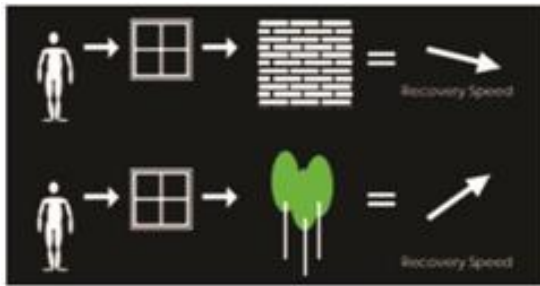
SUBDIVIDING THE OPENING BY SUBTRACTION DEPICTING THE ARMS.

SITE ZOANING

THE REQUIREMENTS FRAMED ARE CATEGORISED ON FOUR MAJOR BLOCK: ADMINISTRATIVE BLOCK, O.P.D. & I.P.D. BLOCK, FACILITIES PROVIDED AND THE RESIDENTIAL BLOCK. THE FORM PROPOSED FOR EACH BLOCK ARE DIVIDED ON THE BASIS OF PROPORTIONATE AREA.



THERAPEUTIC ARCHITECTURE

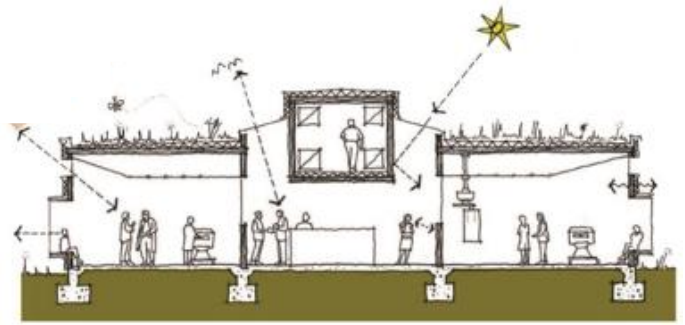


SHOWS THE IMPORTANCE OF GREENERY IN HEALING.



AFFECT OF NOISE LEVEL ON THE PATIENT.

ROLE OF LIGHT



LIGHT PLAYS A CRITICAL ROLE IN HUMAN LIFE AND DAILY AFFAIRS THAT WE CAN HARDLY IMAGINE OUR EXISTENCE WITHOUT IT. IT PERMITS ONE TO FUNCTION AT A BASIC LEVEL AND IT ALSO PLAYS A KEY FACTOR IN OUR PSYCHOLOGICAL AND PHYSIOLOGICAL HEALTH.



MATERIALITY HAS A DIRECT INFLUENCE ON THE OVERALL SENSE OF THE ENVIRONMENT. MATERIALS HAVE THE ABILITY TO AFFECT THE SOUND ENVIRONMENT, CIRCULATE MOVEMENT, INCREASE/DECREASE COMFORT, AND VARIOUS OTHER ACTIONS. WITH THIS, THE FORM IN WHICH THE MATERIAL BECOMES A PART OF WILL ALSO DETERMINE THE POWERS OF ITS PLACEMENT.

LANDSCAPING



SHOWS THE OUTDOOR ACIVITY AREA.



SHOWS THE WATERBODY.



SHOWS THE HEALING GARDEN.



SHOWS THE OPEN AIR THEATRE.

COLOUR PSYCHOLOGY



Healing Environment should....

Stimulate positive awareness of ourselves

Enhance our connection with nature and people

Provide meaningful, vary stimuli

Encourage relaxation

Allow us to interact with them productively

Balance constancy and flexibility

COLORS CAN HAVE A SIGNIFICANT IMPACT ON THE PSYCHE OF PATIENTS; CERTAIN COLORS INTEND TO ENCOURAGE ACTIVITIES, WHILE OTHERS PROMOTE PASSIVE BEHAVIOR. ACCORDING TO COLOR THERAPY, COLORS HAVE THE ABILITY TO INFLUENCE MANY FACETS OF OUR LIVES, INCLUDING OUR EMOTIONS, MENTAL STATE, MOOD, AND ENERGY LEVEL.

PLANS

ELEVATIONS

SECTIONS

ELECTIVE-1

LANDSCAPING

ELECTIVE-2

INTERIOR

3D-VIEWS

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[http://www.drugabuse.gov /](http://www.drugabuse.gov/) <https://cachorro808.wordpress.com/>
<http://diariodebabel.com/>

www.goggle.com

Neufert

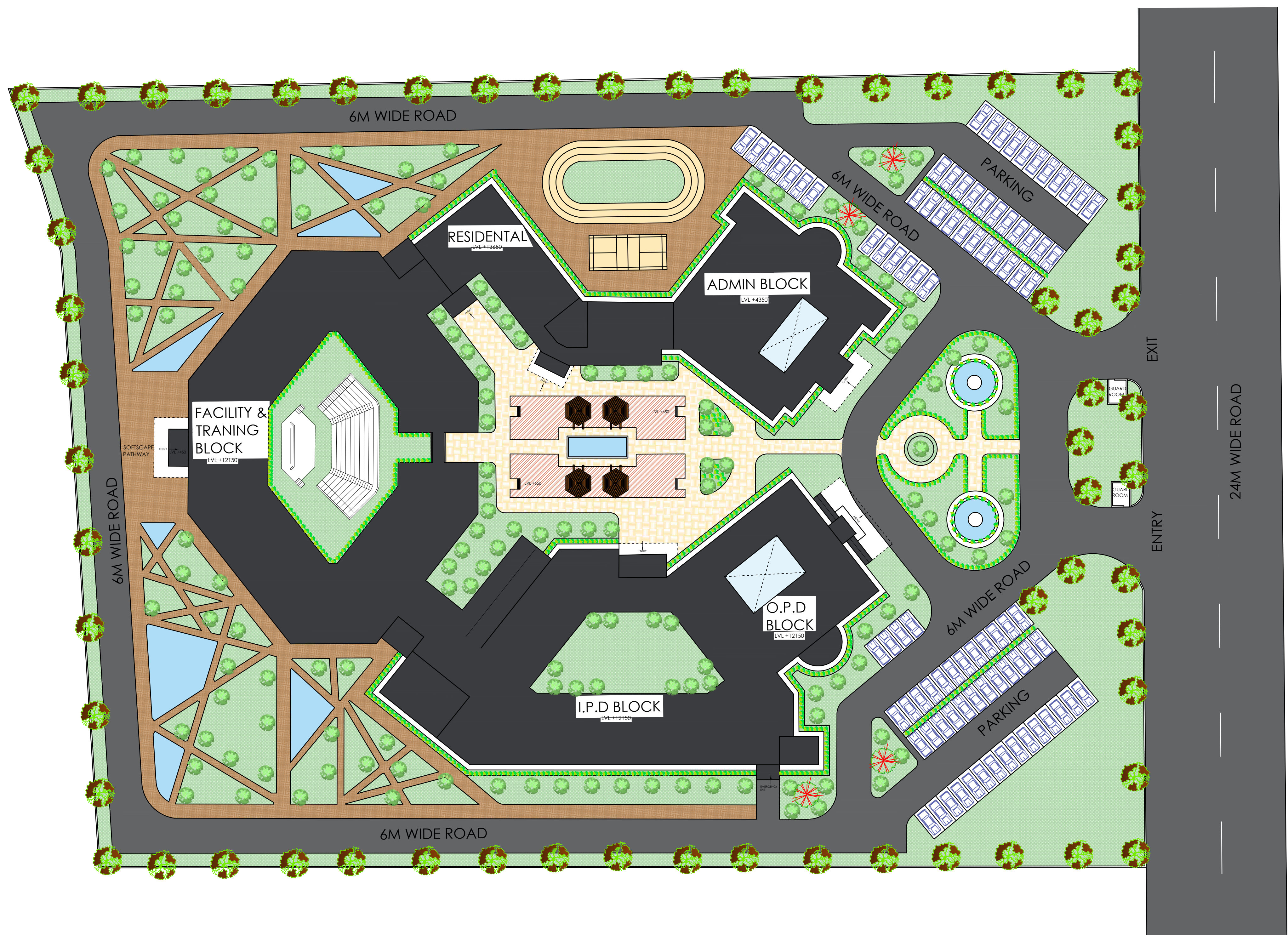
NBC

<https://main.mohfw.gov.in/basicpage/drug-de-addiction-programme>

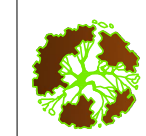
rehabcouncil.nic.in Rehabilitation Council of India

www.unodc.org › unodc › enDrug Prevention Treatment and Care

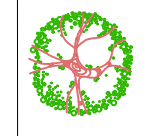
www.grants-msje.gov.in › display-irca-cost-norms



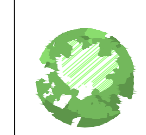
LEGEND: PLANT



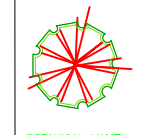
BOTANICAL NAME *Anthurium odoratum*
LOCAL NAME KANAK
HEIGHT 1.5M - 2M
SPREAD 1.5M - 2M
FLOWERING SEASON AUG-SEP
COLOR OF FLOWER ORANGE
FRAGRANCE YES
LIGHT REQUIREMENT FULL SUN
REMARK PREFERRED WARM MOIST CLIMATE. IT CAN BE SUCCESSFUL IN SUBTROPICAL CLIMATE. IT REQUIRES DEEP WELL DRAINAGE LIGHT SOIL.
USAGE ITS A BEAUTIFUL TALL TREE WITH DENSE FOLIAGE & CONICAL CROWN. MUCH PLANTED FOR ITS GLOWING BALL OF FLOWERS. VERY SUITABLE FOR ROAD SIDE PLANTATION.



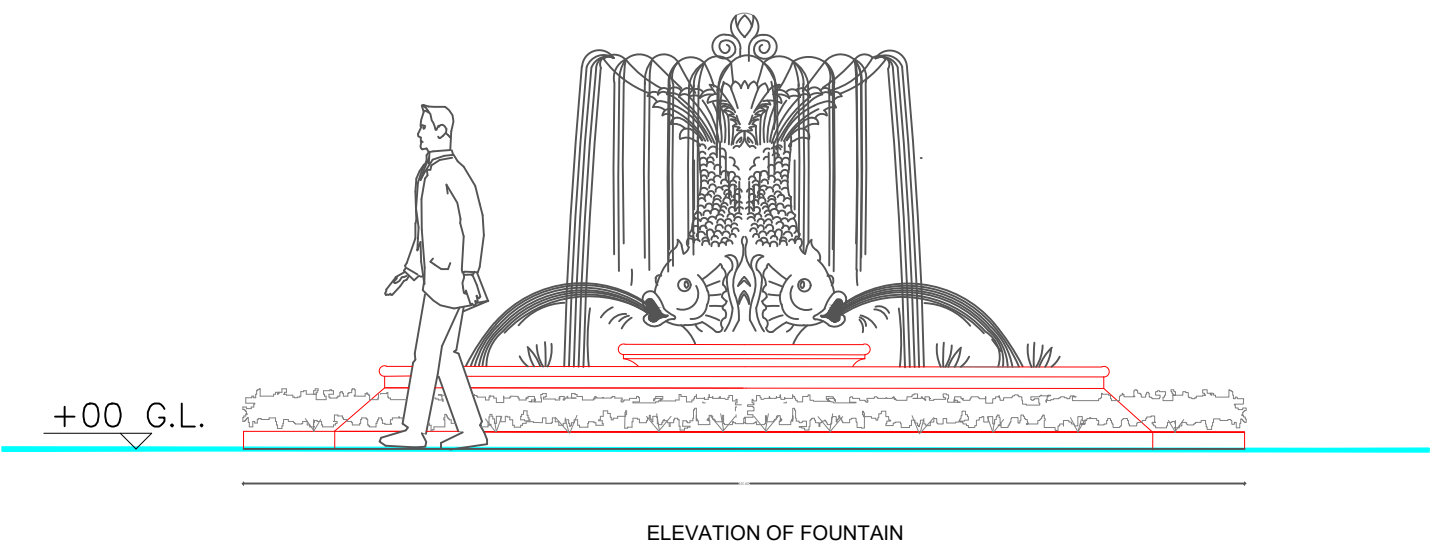
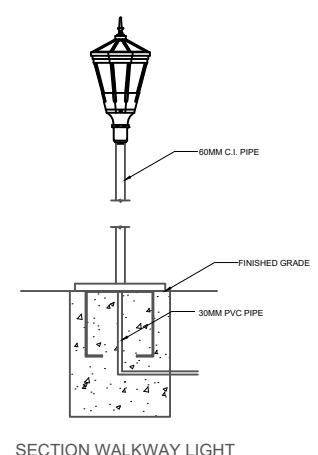
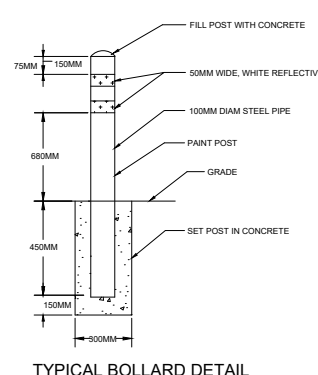
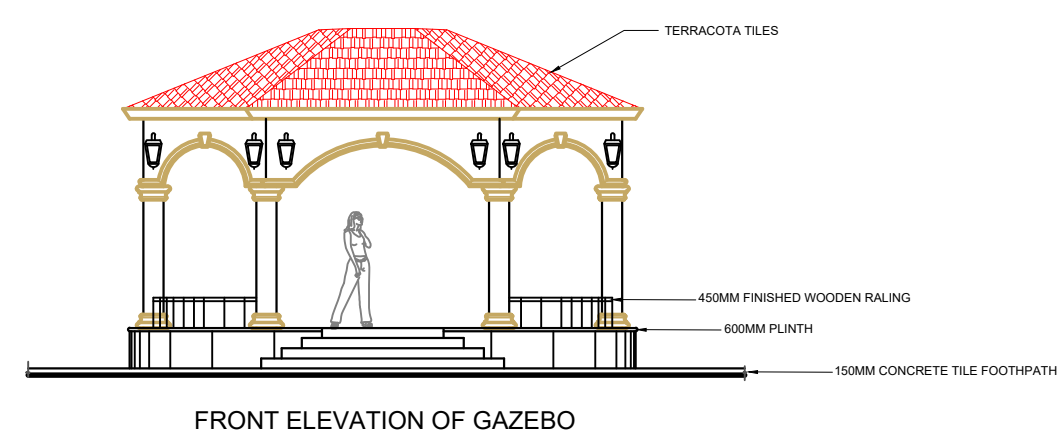
BOTANICAL NAME *Cassia fistula*
LOCAL NAME AMALSI
TYPE DECIDUOUS / SMALL TO MED SIZED
HEIGHT 10M - 15M
SPREAD 5M - 10M
FLOWERING SEASON SCATTERED FLOWERS APPEAR THROUGHOUT YEAR
COLOR OF FLOWER YELLOW
FRAGRANCE YES
LIGHT REQUIREMENT FULL SUN
REMARK GROWS IN WIDE RANGE OF CLIMATIC CONDITIONS. IT CAN ALSO WITH STAND EXCESSIVE DROUGHT. IT IS ONE OF THE MOST BEAUTIFUL TREES IN INDIA. IT IS PLANTED IN PARKS IN CLUMPS & ALSO ALONG SMALL CITY ROADS.



BOTANICAL NAME *Calliandra lanceolata*
LOCAL NAME THE BUTTE BRUSH TREE
TYPE EVERGREEN TREE
HEIGHT 7 M - 10M
FLOWERING SEASON FLOWER THROUGHOUT THE YEAR
COLOR OF FLOWER BRIGHT RED
FRAGRANCE YES
LIGHT REQUIREMENT FULL SUN
REMARK GROWS WELL IN WARM HUMID AND MOIST SOIL. PLANTED AT THE BACKGROUND OF SMALL LANDSCAPES AROUND THE BORDERS OF LANDSCAPES AND GARDENS.



BOTANICAL NAME *Plumeria alba*
LOCAL NAME CHAMPA, FRANGIPANI, PANDAN TREE
TYPE DECIDUOUS
HEIGHT 4 M
SPREAD 3 M
FLOWERING SEASON SCATTERED FLOWERS APPEAR THROUGHOUT THE YEAR
COLOR OF FLOWER WHITE WITH YELLOW THROAT
FRAGRANCE YES
LIGHT REQUIREMENT FULL SUN
REMARK FLOWERS BETTER IN POOR AND POROUS SOIL.



TITLE:-
DRUD
REHABILITATION
CENTRE

NOTE:-

(1) ALL DIMENSION ARE IN MM

(2) WRITTEN DIMENSION ARE TO BE FOLLOWED

DRAWING:-

ELECTIVE 1

SHEET NO:-

07

SCALE:-

NOT TO SCALE

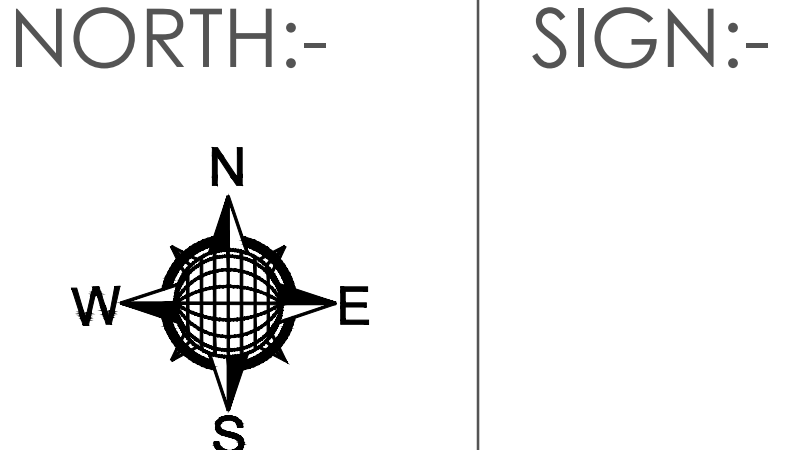
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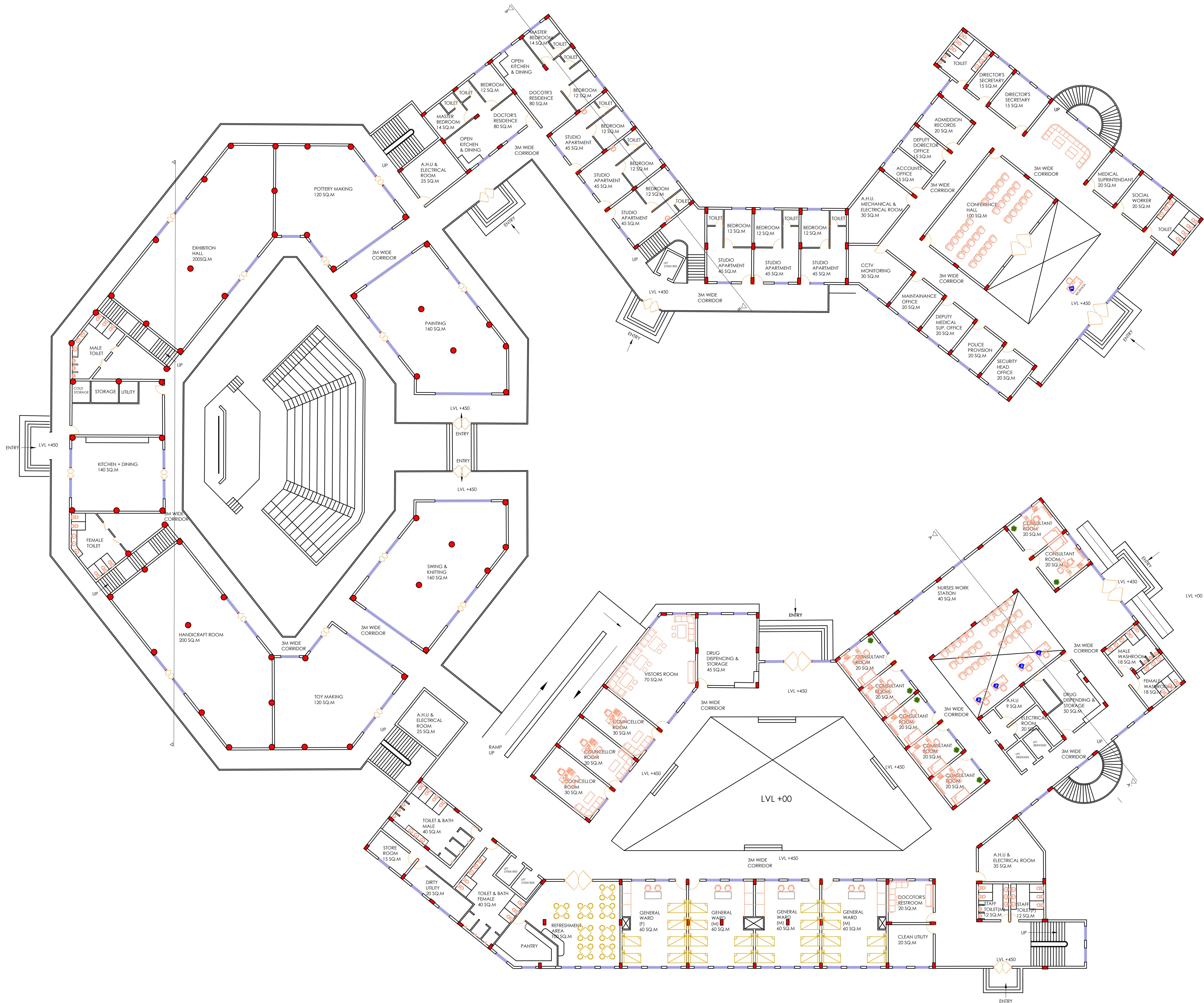
MOHD OVAISH
B.ARCH V YEAR
1180101031

SUBMITTED TO:-

AR. ANSHUL SINGH
AR. SATYAM SHRIVASTAV

BABU BANRASI
DAS UNIVERSITY
LUCKNOW





TITLE:-
DRUD REHABILITATION
CENTRE

NOTE:-

(1) ALL DIMENSION ARE IN MM

(2) WRITTEN DIMENSION ARE TO
BE FOLLOWED

DRAWING:-
GROUND FLOOR PLAN

SHEET NO:-
01

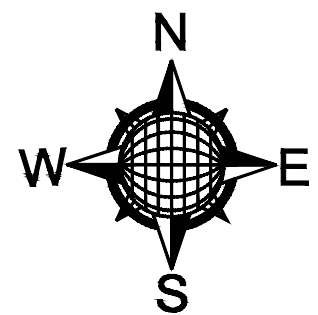
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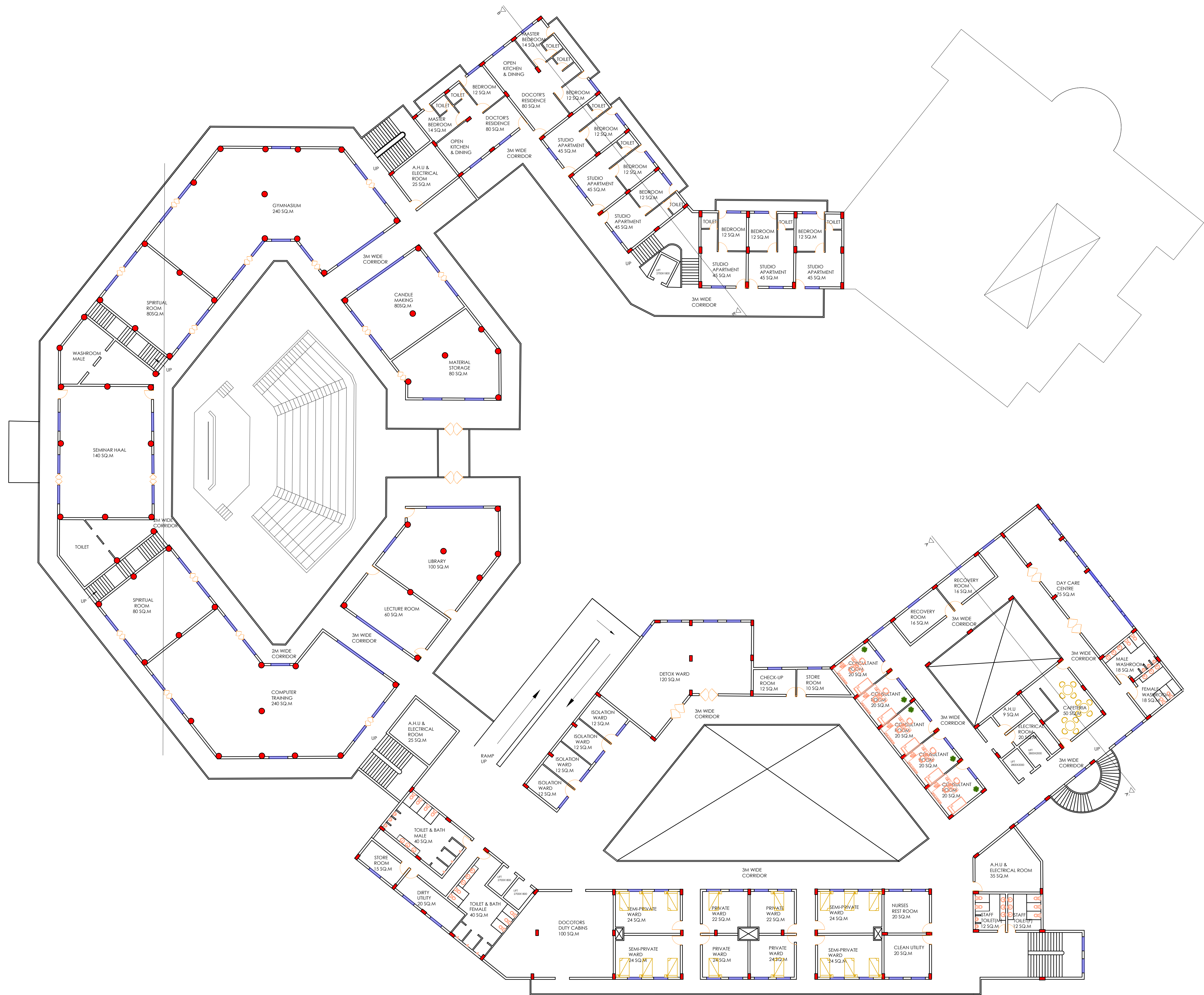
SUBMITTED BY:-
MOHD OVAISH
B.ARCH V YEAR
1180101031

SUBMITTED TO:-
AR. ANSHUL SINGH
AR. SATYAM SHRIVASTAV

BABU BANRASI
DAS UNIVERSITY
LUCKNOW

NORTH:-
SIGN:-





TITLE:-
DRUD REHABILITATION
CENTRE

NOTE:-

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BE FOLLOWED

DRAWING:-
FIRST FLOOR PLAN

SHEET NO:-
02

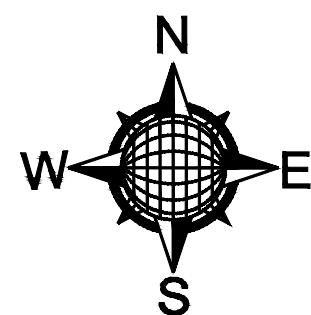
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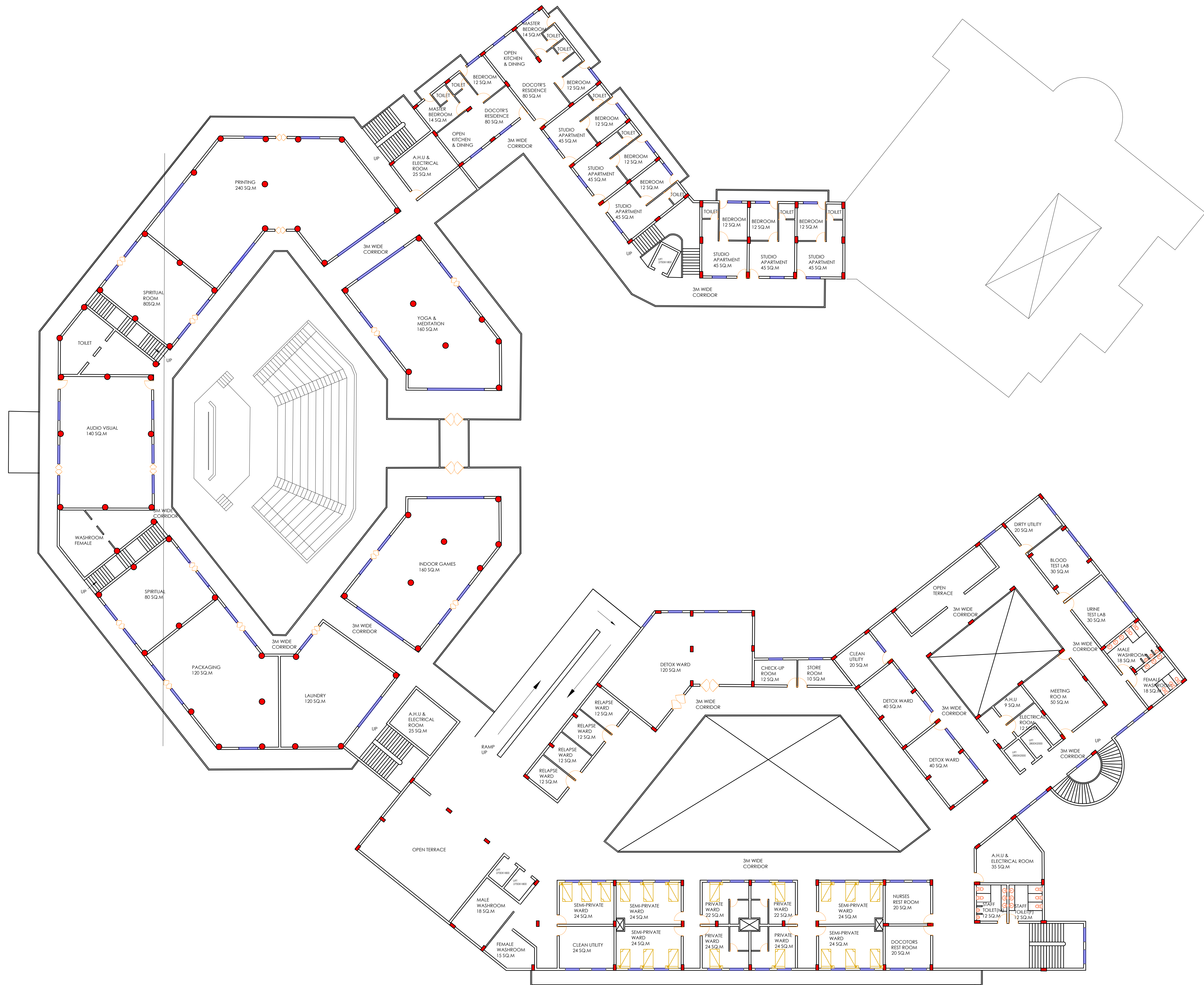
SUBMITTED BY:-
MOHD OVAISH
B.ARCH V YEAR
1180101031

SUBMITTED TO:-
AR. ANSHUL SINGH
AR. SATYAM SHRIVASTAV

BABU BANRASI
DAS UNIVERSITY
LUCKNOW

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SIGN:-





TITLE:-
DRUD REHABILITATION
CENTRE

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BE FOLLOWED

DRAWING:-
SECOND FLOOR PLAN

SHEET NO:-
03

SCALE:-
1:200

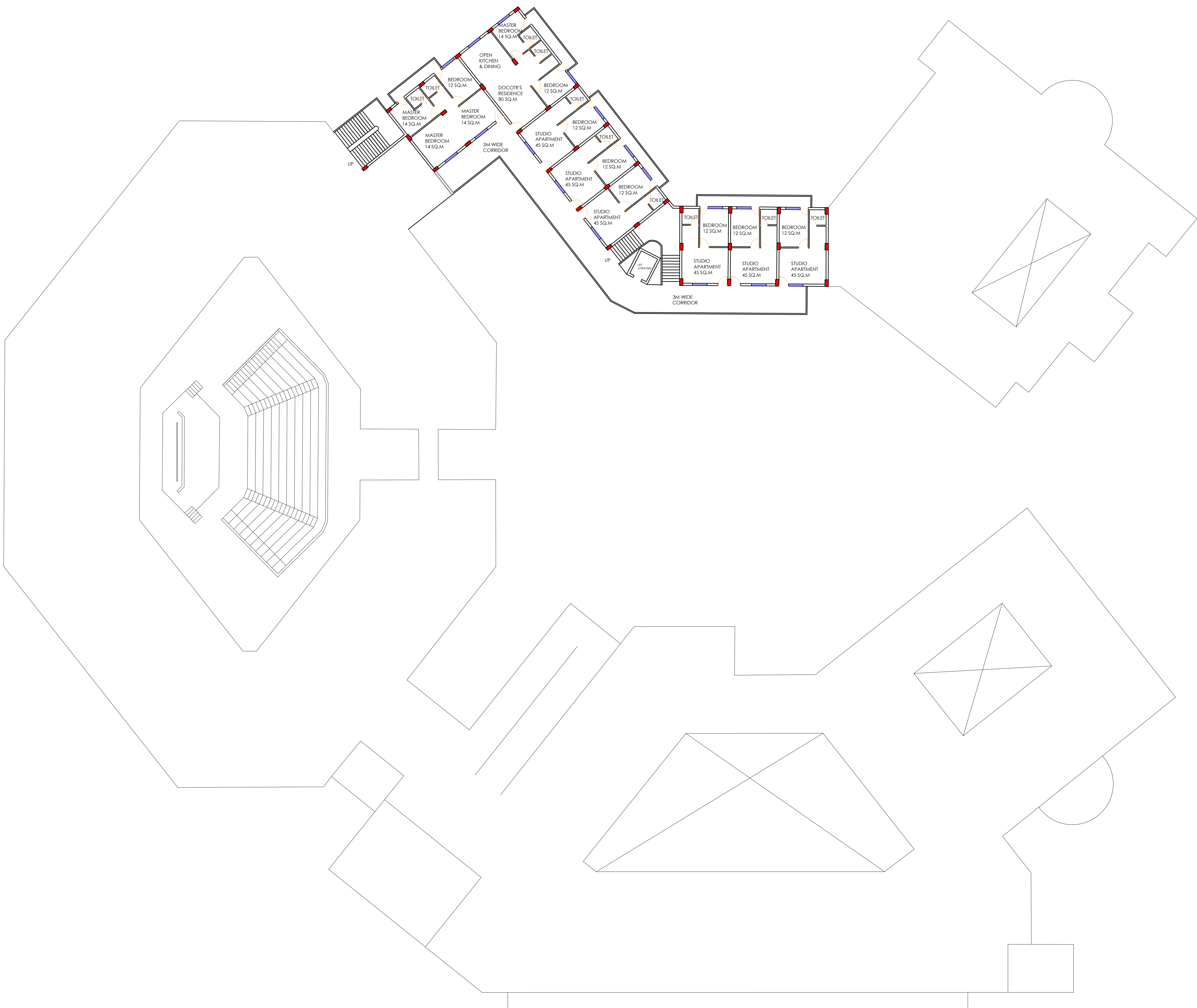
SUBMITTED BY:-
MOHD OVAISH
B.ARCH V YEAR
1180101031

SUBMITTED TO:-
AR. ANSHUL SINGH
AR. SATYAM SHRIVASTAV

BABU BANRASI
DAS UNIVERSITY
LUCKNOW

NORTH:-

SIGN:-



TITLE:-
DRUD REHABILITATION
CENTRE

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DRAWING:-
THIRD FLOOR PLAN

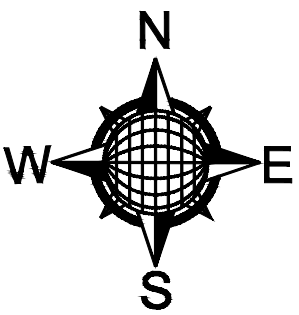
SHEET NO:-
04

SCALE:-
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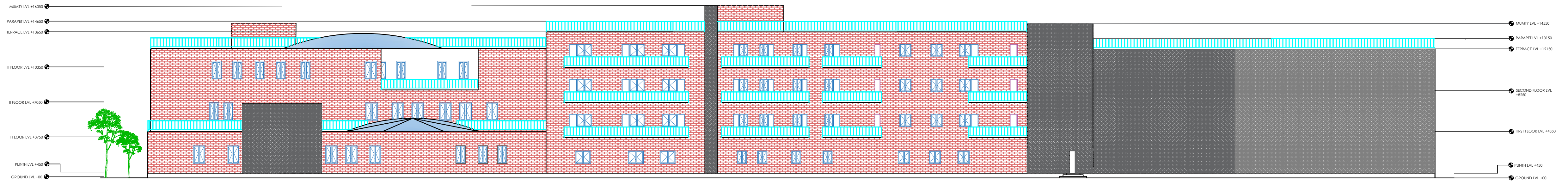
SUBMITTED BY:-
MOHD OVAISH
B.ARCH V YEAR
1180101031

SUBMITTED TO:-
AR. ANSHUL SINGH
AR. SATYAM SHRIVASTAV

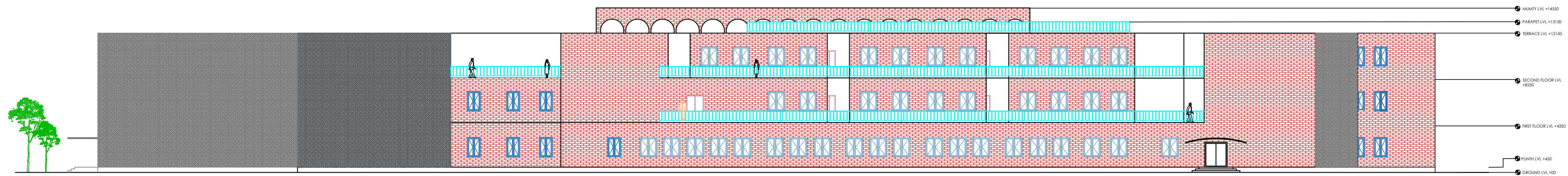

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NORTH:-


SIGN:-



NORTH-WEST ELEVATION



SOUTH-EAST ELEVATION

TITLE:-
DRUD REHABILITATION
CENTRE

- NOTE:-
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MM
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TO BE FOLLOWED

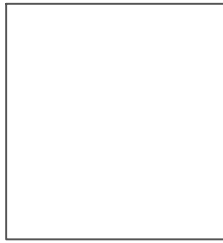
DRAWING:-
ELEVATIONS

SHEET NO:-
05

SCALE:-
1:200

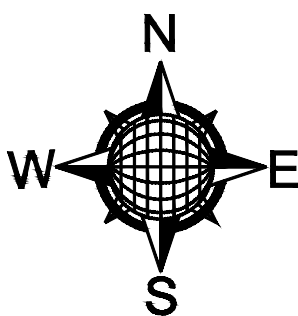
SUBMITTED BY:-
MOHD OVAISH
B.ARCH V YEAR
1180101031

SUBMITTED TO:-
AR. ANSHUL SINGH
AR. SATYAM SHRIVASTAV



BABU BANRASI
DAS UNIVERSITY
LUCKNOW

NORTH:-



SIGN:-

TITLE:-
DRUD REHABILITATION
CENTRE

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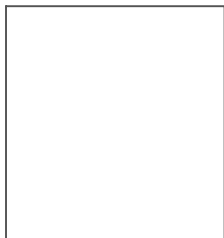
DRAWING:-
SECTIONS

SHEET NO:-
06

SCALE:-
1:150

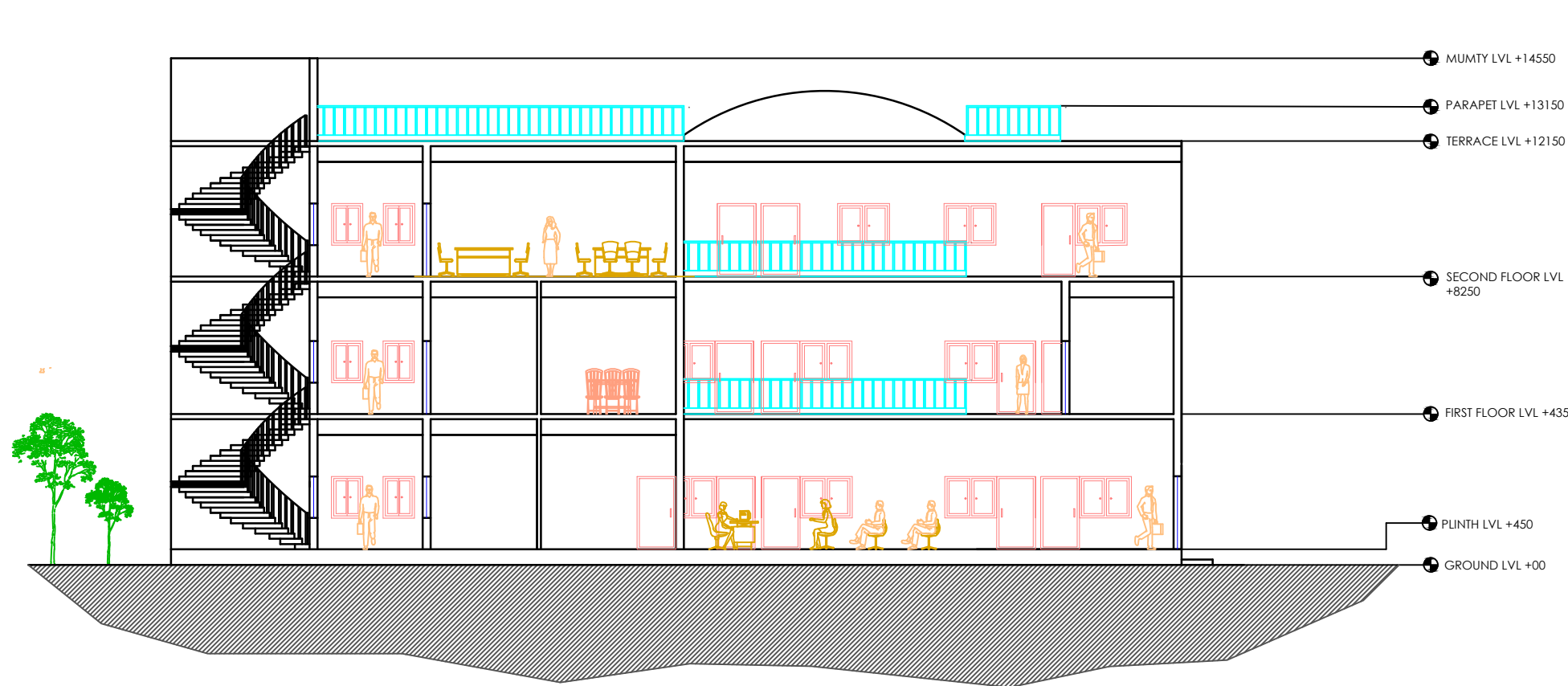
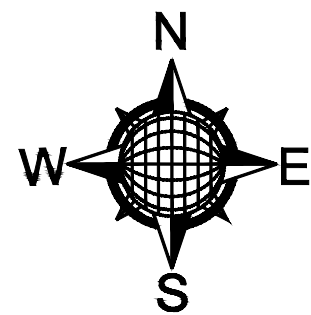
SUBMITTED BY:-
MOHD OVAISH
B.ARCH V YEAR
1180101031

SUBMITTED TO:-
AR. ANSHUL SINGH
AR. SATYAM SHRIVASTAV

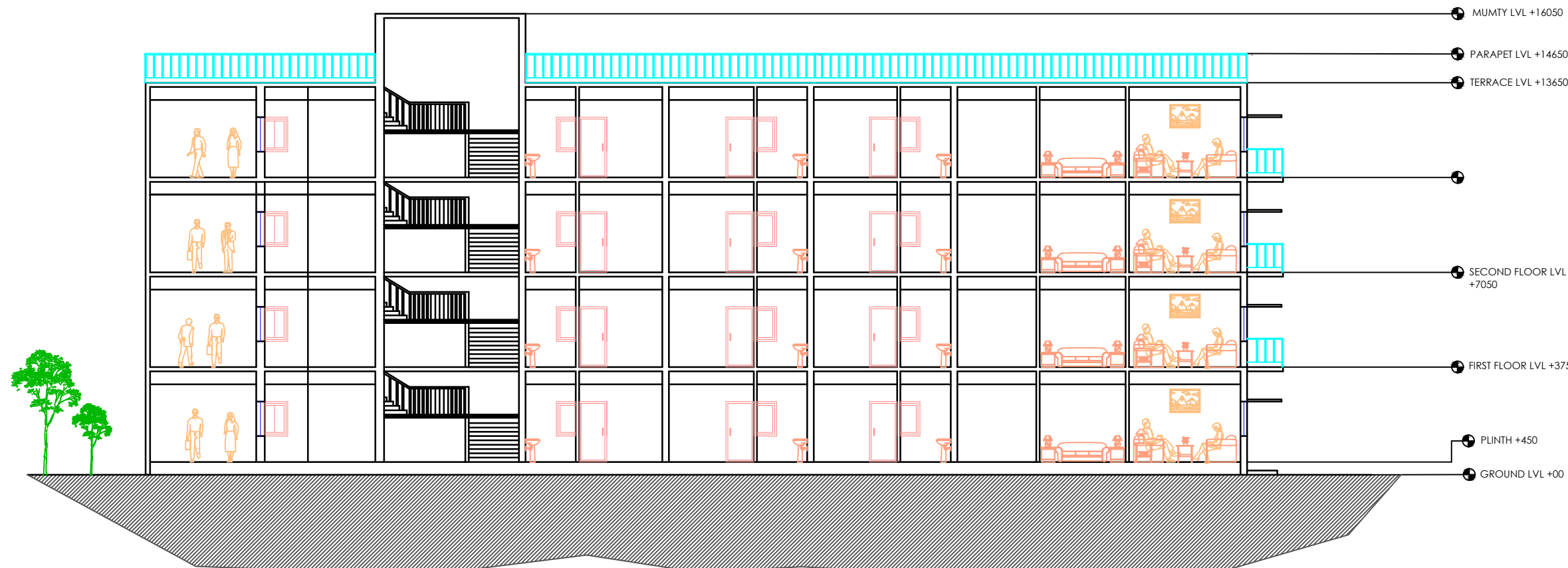


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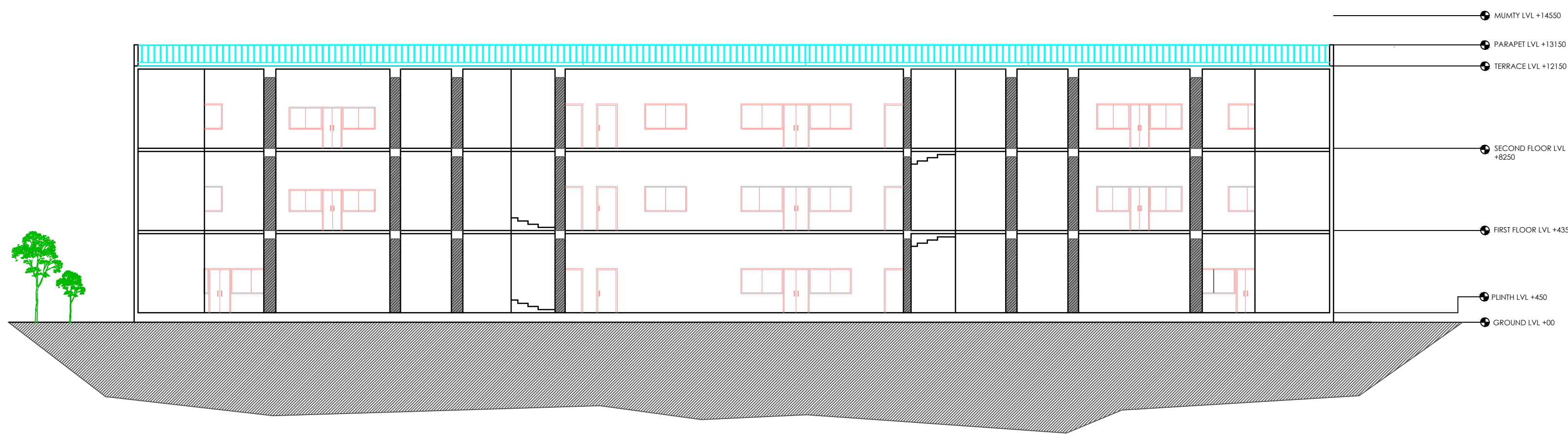
NORTH:-
SIGN:-



SECTION A-A'



SECTION B-B'



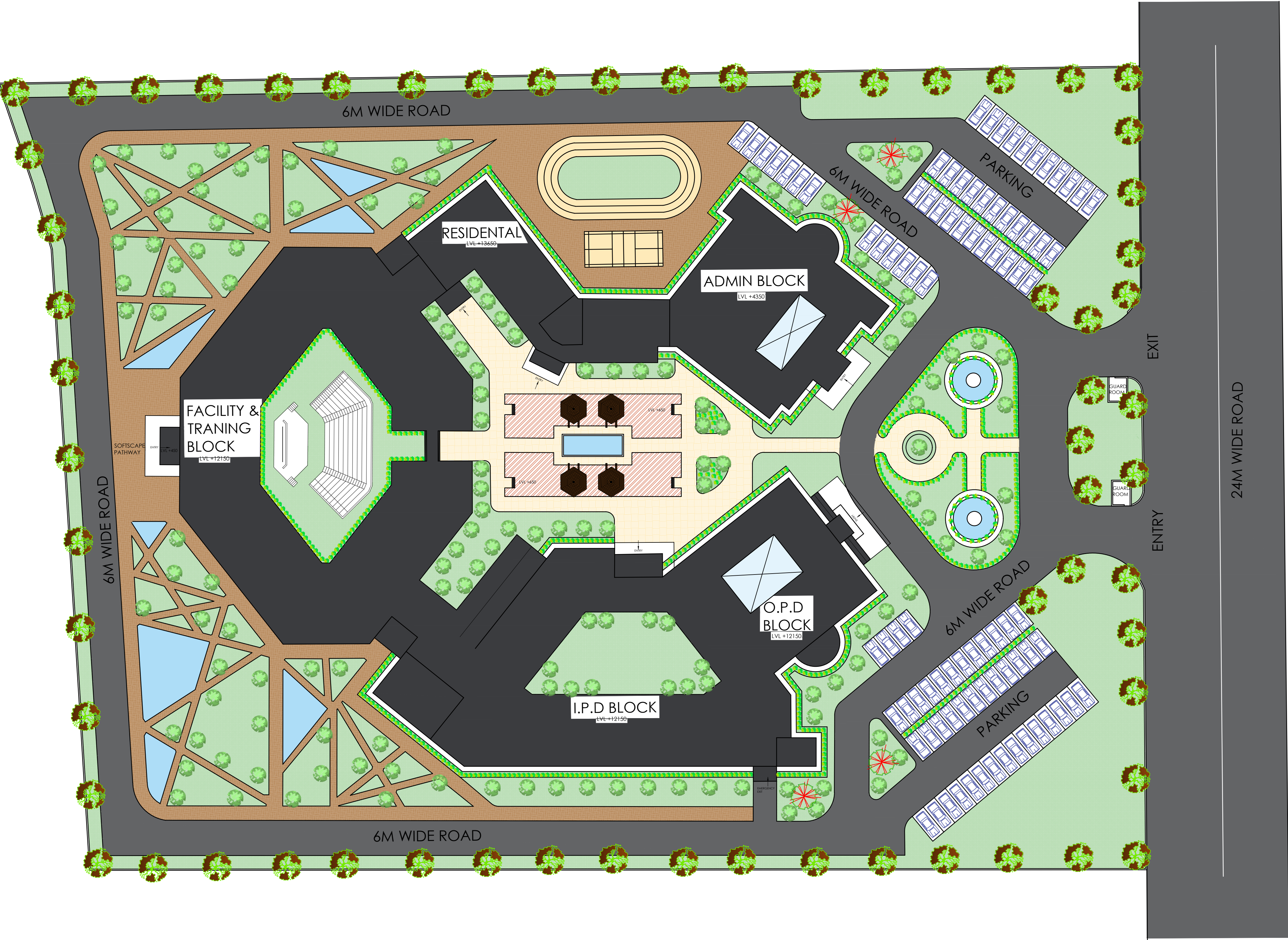
SECTION C-C'

SITE DETAILS:

PLOT AREA: 6 ACRE
(24281.6 M2)
F.A.R.: 1.2 (DELHI
DEVELOPMENT
AUTHORITY)
GROUND COVERAGE:
30%
(7284.48 M2 OR 1.79
ACRE) **PERMISSIBLE
COVERED AREA:** PLOT
AREA x F.A.R.
=29137.92 M2

**ACHIEVED GROUND
COVERAGE:** 25%
(6162.34 M2 OR 1.52
ACRE)
**ACHIEVED COVERED
AREA:** 16822.04 M2
PROPOSED F.A.R.: 0.69

METAL ROAD AREA:
18.5%
PAVED AREA:
12.34%
SOFTSCAPE AREA:
44.16%



TITLE:-
DRUD REHABILITATION
CENTRE

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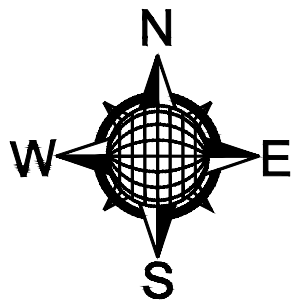
DRAWING:-
SITE PLAN

SHEET
NO:- 09
SCALE:- 1:400

SUBMITTED BY:-
MOHD OVAISH
B.ARCH V YEAR
1180101031

SUBMITTED TO:-
AR. ANSHUL SINGH
AR. SATYAM SHRIVASTAV

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DAS UNIVERSITY
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NORTH:-

SIGN:-

TITLE:-
DRUD REHABILITATION
CENTRE

- NOTE:-
- (1) ALL DIMENSION ARE IN MM
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DRAWING:-
ELECTIVE 2

SHEET NO:-
08

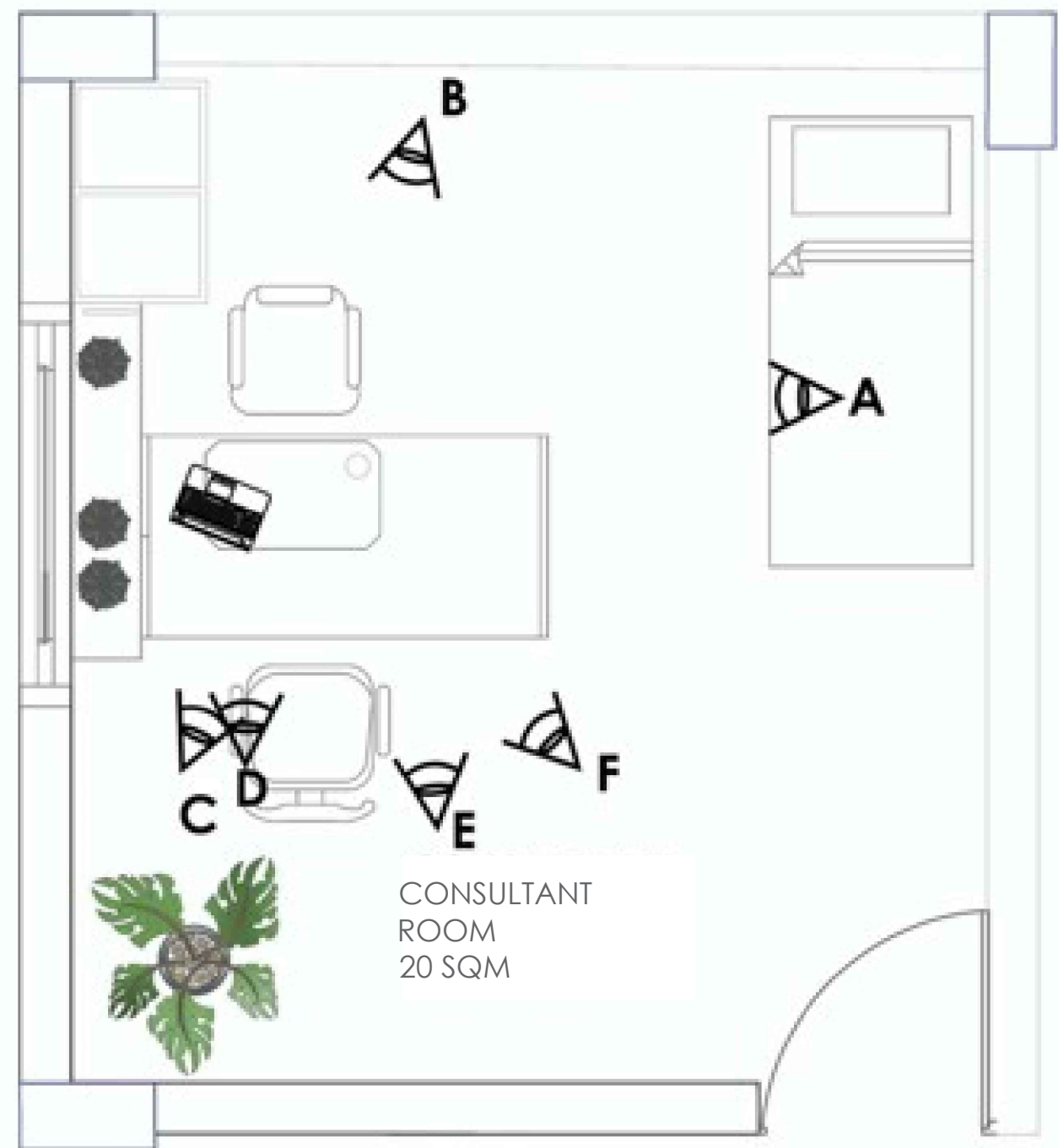
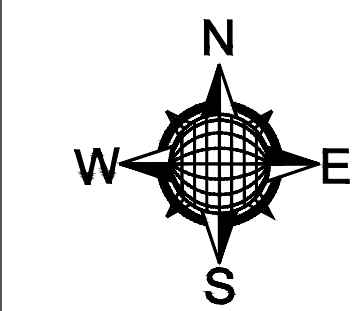
SCALE:-
NOT TO SCALE

SUBMITTED BY:-
MOHD OVAISH
B.ARCH V YEAR
1180101031

SUBMITTED TO:-
AR. ANSHUL SINGH
AR. SATYAM SHRIVASTAV

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DAS UNIVERSITY
LUCKNOW

NORTH:-
SIGN:-



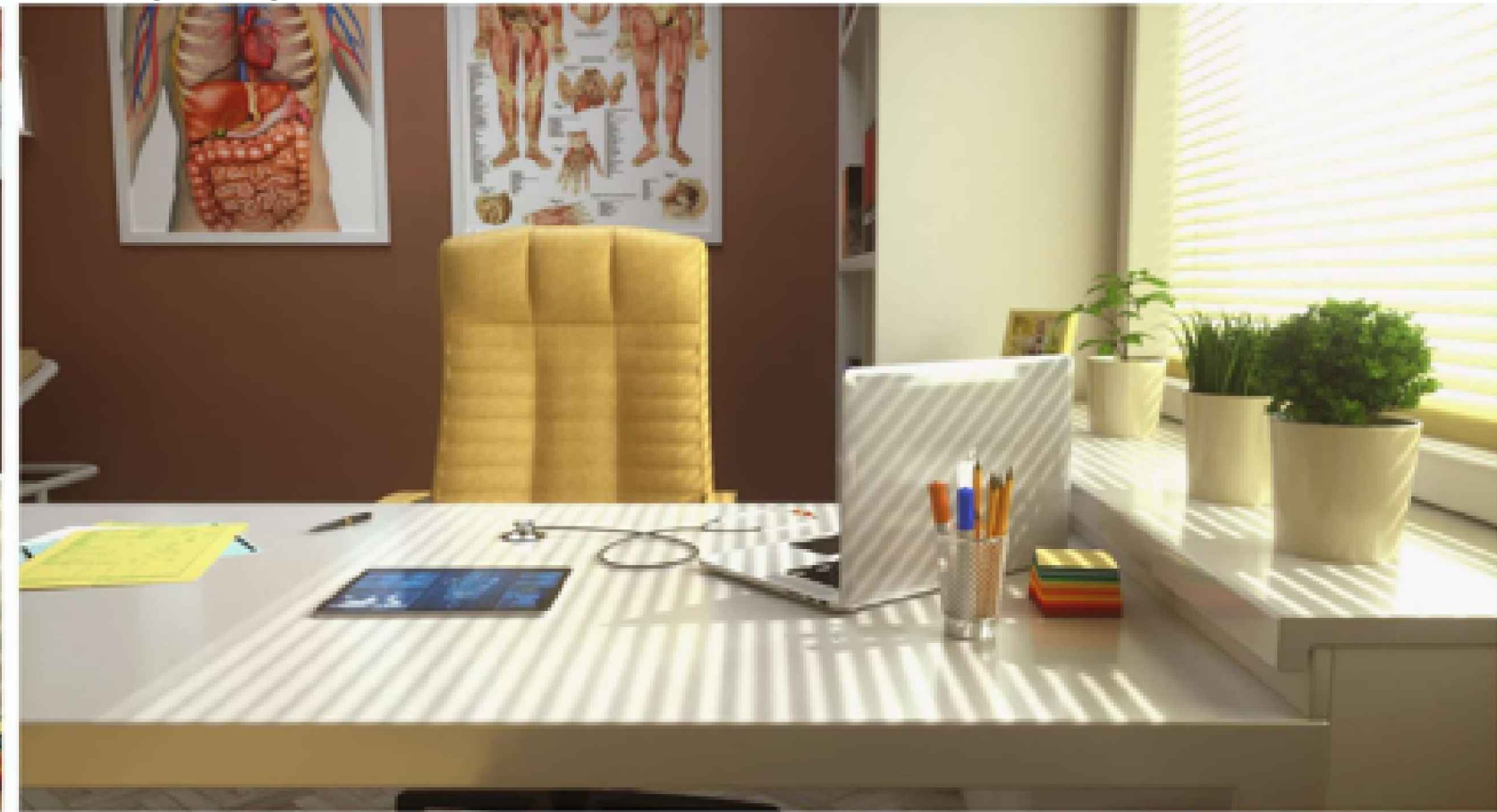
VIEW POINT FROM "A"



VIEW POINT FROM "B"



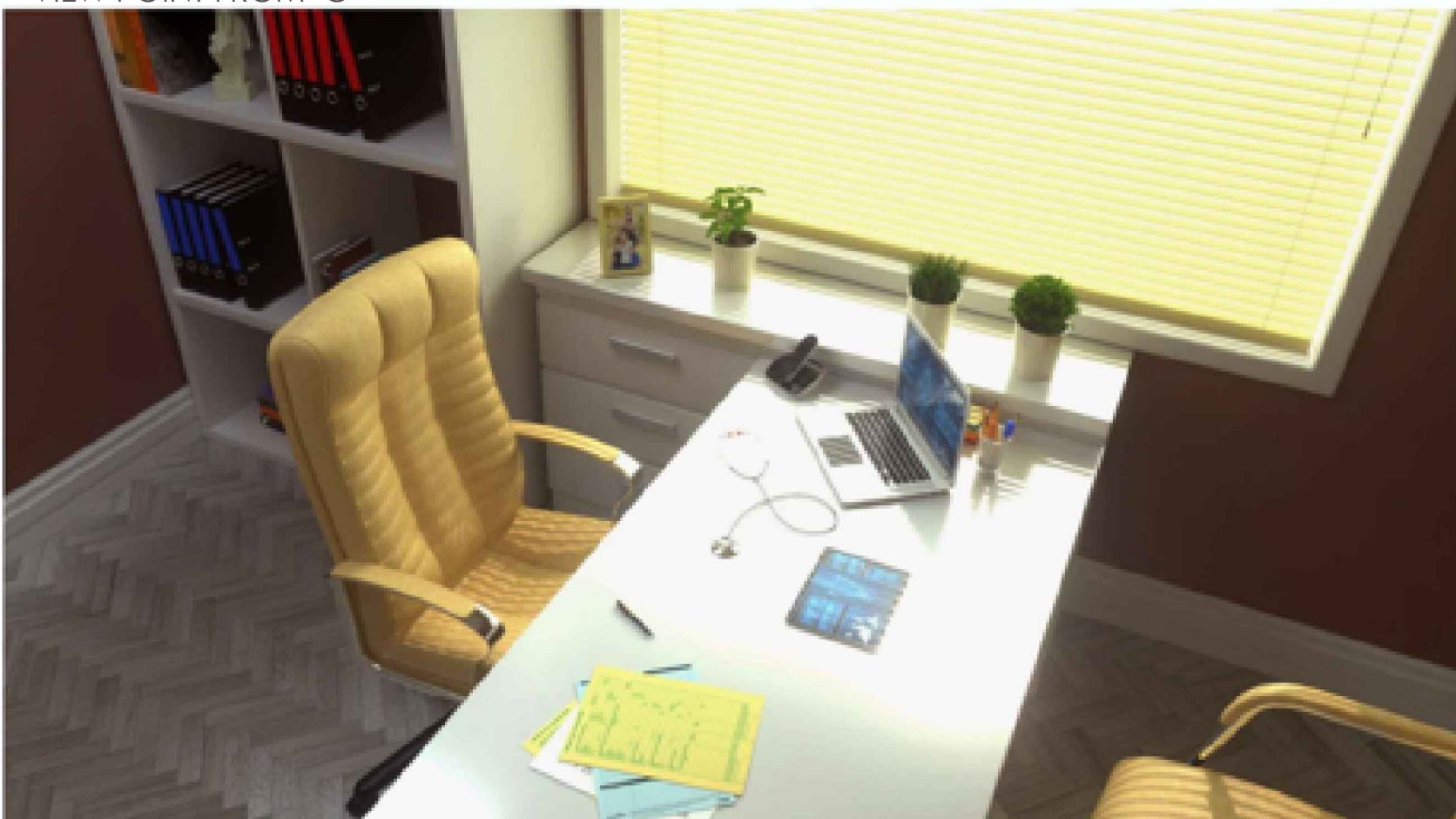
VIEW POINT FROM "C"



VIEW POINT FROM "D"



VIEW POINT FROM "E"



VIEW POINT FROM "F"





