

**THESIS REPORT ON**

**MENTAL HEALTH DEVELOPMENT CENTRE**

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

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

**by**  
**PRAGYA YADAV**  
**(1140101052)**

**Under the guidance of**  
**AR. PROF. K.K DIXIT**

**SESSION**  
**2019/20**

# CERTIFICATE

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

I hereby recommend that the thesis entitled, “**MENTAL HEALTH DEVELOPMENT CENTRE**” under the supervision, is the bonafide work of the student and can be accepted as partial fulfillment of the requirement for the degree of Bachelor’s degree in architecture, School of Architecture and Planning, BBDU, Lucknow.

-----  
Prof. Mohit Kumar Agarwal  
Dean of Department

-----  
Prof. Sangeeta Sharma  
Head of Department

Recommendation

Accepted

Not Accepted

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External Examiner

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External Examiner

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**CERTIFICATE OF THESIS SUBMISSION FOR  
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4. Degree for which the thesis is submitted: .....  
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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
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## ACKNOWLEDGEMENT

I would like to take this opportunity to thank my beloved thesis guide **Prof. K.K dixit**, who have always helped me and have give me brilliant ideas. I highly appreciate all the help they have given to me. Their concerns about the many problems involved in acquiring land for **Mental health development centre** or for the expansion of existing ones have encouraged me to conduct this study as a means of presenting more explicitly the difficulties of **Mental Health development** in metropolitan areas.

I would like to thank the Dean **Prof. Mohit Kumar Aggarwal** and thesis coordinator **Ar. Arpit kumar** without whose help and co-ordination this thesis may not have been possible. I also want to thank all my faculty members for the guidance that helped successfully integrating the research aspects of the project throughout this thesis.

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Pragya Yadav



# **INDEX**

## **CHAPTER 1 : INTRODUCTION**

## **CHAPTER 2 : SITE STUDY**

- 2.1-Site Location and Surroundings
- 2.2-Byelaws
- 2.3-Inferences

## **CHAPTER 3 : CLIMATE STUDY**

## **CHAPTER 4 : CASE STUDIES**

- 4.1-Case Study 1 :  
( PATANJALI YOGAPEETH)
- 4.2-Case Study 2 :  
( BAPU NATURE CURE , NOIDA DELHI)
- 4.3-Literature Study 1 :  
(KAIRALI , KERALA)
- 4.4-Literture Study 2:  
(MATRIMANDIR, TAMILNADU)

## **CHAPTER 5 : COMPARATIVE ANALYSIS**

## **CHAPTER 6 : STANDARDS**

## **CHAPTER 7 : AREA ANALYSIS**

## **CHAPTER 8 : DESIGN CONCEPTS AND FLOWCHARTS**

- 8.1-Concept
- 8.2-Zoning
- 8.3-Views

## **CHAPTER 9 : ELECTIVES**

- 9.1-LANDSCAPE
- 9.2-PLUMBING

# INTRODUCTION . .

## INTRODUCTION TO THE TOPIC....

**Mental health** includes our emotional, psychological, and social well-being. It affects how we think, feel, and act. It also helps determine how we handle stress, relate to others, and make choices. Mental health is important at every stage of life, from childhood and adolescence through adulthood.

Mental wellness goes hand-in-hand with physical health. When you eat well, get enough sleep and stay active, your emotional health can improve. Being mentally well means that your mind is in order and functioning in your best interest. You are able to think, feel and act in ways that create a positive impact on your physical and social well-being.

### AIM OF THE PROJECT

- Achieving good mental health will enable you to:
- Realise your own abilities,
- Cope with the stress and challenges of life,
- Engage in productive work,
- Contribute to your community.
- Sustaining mental health requires time and effort.
- The more you invest in your mental health, the stronger it will become.

### NEED OF THE PROJECT

- Increasing our knowledge base and awareness of mental disorders
- Increase our number of mental health professionals
- Awareness of treatment options available to treat mental disorders
- Education of the poor about the importance of mental health
- Make quality care and treatment easily available and accessible to everyone.

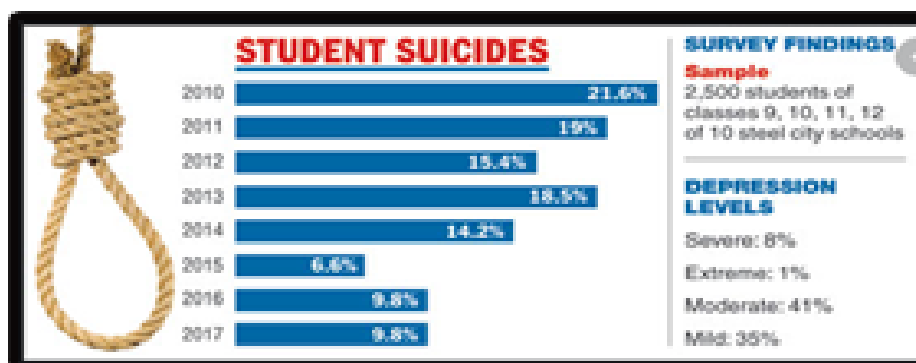
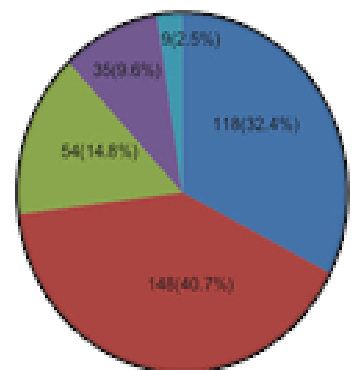
### MENTAL ILLNESS IN INDIA

- NO depression
- Minimal symptoms
- Minor depression
- Major depression
- Severe depression

### MENTAL ILLNESS IN INDIA

### MOST COMMON DISORDERS REPORTED

MOOD DISORDER	22%
SCHIZOPHRENIA	23%
DEPRESSION	26%
ANXIETY	15%
SUBSTANCE	12%



## **SITE:-**

## **SITE INTRODUCTION**

DTTDC has 6 acres of land near Garden of Five Senses Area, Said-ul-Ajab, New Delhi. DTTDC proposes to set up a world class 'MENTAL HEALTH DEVELOPMENT CENTRE' at this land through Public Private Partnership on Design, Build, Finance, Operate and Transfer (DBFOT) basis.

## **LOCATION OF THE SITE:-**

The site is located in the prime area of South Delhi near garden of five senses.

Site is surrounded by green belt on three sides ensures peace and serenity and hence augurs well for the concept of "Mental health development center."

## **LANDFORMS :-**

- Project Site is trapezium in Shape.
- Soil type of site is kochi soil, which is known for the rocky areas as this site is located in south zone of Delhi.

## **SITE BOUNDARIES**

- North: Saket Metro Station, Qutub minar
- East: Garden of Five Senses
- West: Green Belt/Jungle
- South: Green Belt/Jungle, Said-ul-Ajab residential area

## **BYE LAWS:**

- ☐ Permissible F.A.R. - 1.25
- ☐ Ground coverage - 30%
- ☐ Max. height - 16M
- ☐ Front set back - 12M
- ☐ Rear set back - 9M
- ☐ Side set back - 9m

## **BSITE PARAMETERS:**

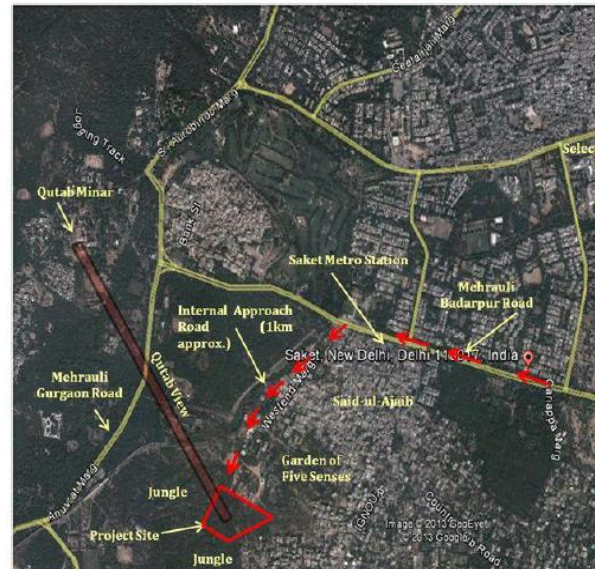
- ☐ Site Area - 6 acres
- ☐ Site Shape - TRAPEZIUM
- ☐ Orientation - Site have one side roads EW.
- ☐ Geographical condition - 28.47 N 77.51 E
- ☐ Land use - Industrial Area
- ☐ Contours & Levels - Site is almost plain with no major levels

## **CONNECTIVITY**

The project site is at a distance of 1 Km (via a 2 lane road) from Mehrauli Badarpur Road which is a 4 lane road connecting NH236 and NH2. The site is approximately 1 Km from Saket Metro Station (located on Mehrauli Badarpur Road).



## **PROPOSED SITE**



## **SITE CONNECTIVITY ROUTE**

## SITE DISTANCE FROM KEY LANDMARKS :-

Area Location	Distance (Km)
Airport	15
Railway Station	17
ISBT	22
<b>Delhi Wellness &amp; Recreational Club Project Site</b>	<b>0</b>
Select City Mall	4
Saket Metro Station	1
Qutub Minar	2.5
Gurgaon (border)	12
Faridabad (border)	11
India Gate	14
Akshardham Temple	20
Chhatarpur Temple	5

## SITE IMAGES



**ENTRANCE OF SITE**



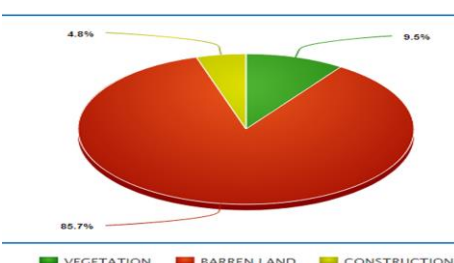
**NEAR FIVE SENSES OF GARDEN**

## **OBSERVATION:-**

- Proposed site and garden of five senses that both are govern by (DTTDC).
- Site is surrounded by green belt/ jungle on three sides .
- Site have a kacchi road as its main approach.
- Site is attached with five senses of garden.
- In the rare side of five senses of garden there is a slum area in small zone.

<u>SERVICES</u>	<u>SOURCES</u>
ELECTRICITY	B.S.E.S (Bombay suburban electricity supply
SEWERAGE	NDMC AND DELHI CANTONMENT BOARD
WATER SUPPLY	DELHI JAL BOARD

## **LANDUSE OF THE SITE:-**



## **SITE INFERESES**

We need to think of a mixed city with mixed functions, as near by site there is residential area, commercial area, and public area

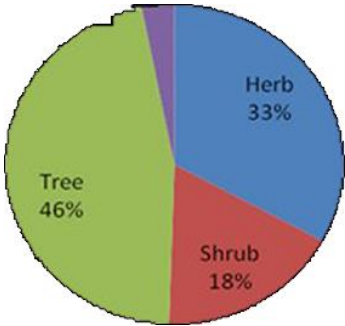
The visitors passing by the centre while walking in the park should feel welcome, it can be designed like that with the reference of park.

Add a famous park that is combine the neighbourhood street. In that sense all inhabitants of the area as well as visitors could enjoy the space and the design.



**VEGETATION On SITE:-**

In site there is various kind of deciduous trees, shurbs and hurbs.



- ❖ 25% TREES
  - ❖ 15% SHRUBS
  - ❖ 20% HERBS
  - ❖ 5% OTHERS
- Percentage Of Existing vegetation



EXISTING IMAGES OF THE SITE



Wild grass covers the 25% of the ground.

**SEISMIC ZONE:**

- As per Bureau of Indian Standards [IS-1893 (Part- 1): 2002], based on the past seismic history,
- Delhi lies in Zone-IV that has fairly high seismicity where the general occurrence of earthquakes is of 5-6 magnitude and occasionally of higher magnitude. Delhi lies among the high-risk area.

**SITE SURROUNDING:-**

- GARDEN OF FIVE SENSES.
- FIO RESTORENT
- RESIDENDIAL AREA OF SAID-UL-AJAB.
- HERB GARDEN
- JUNGLE
- ELEPHANT ROCK GARDEN

**ORIENTATION OF SITE:**

- ☐ There is a road in front and portion of the site .
- ☐ There are vacant lands front the the site..

**S.W.O.T ANALYSIS:-**

**STRENGTH**

- .Site location is prefect for mental health development centre as it is disconnected to the central city.
- Site is surrounded by green belt and adjecent of garden of five senses.
- Various infrastructure availble in surrounding.

**WEAKNESS**

- Vegetation: few trees present on the site, need of more landscape.
- Some part of the site covered with big boulders and rocks.

**OPPORTUNITIES**

- Herbal garden can be used to enhance the visual and aesthetic apperance of the site.
- .The fertile soil can be used to grow herbal plants that will be used for treatment.

**THREATS**

- The construction of the project might cause disturbance to the ecological balance to a small extent.

# CLIMATE OF THE SITE

## CLIMATE

In New Delhi Said-ul-Ajaib is a census town in South district in the Indian state of Delhi. Today it is most known for the Garden of Five Senses park developed by Delhi Tourism. The climate is subtropical, with a very mild and sunny winter, a very hot season from mid-March to mid-June (before the monsoon), and a muggy and rainy summer due to the monsoon.

## Temperature

The hot season lasts for 2.8 months, from April 14 to July 8, with an average daily high temperature above 96°F. The hottest day of the year is May 26, with an average high of 103°F and low of 81°F.

The cool season lasts for 2.2 months, from December 7 to February 14, with an average daily high temperature below 74°F. The coldest day of the year is January 7, with an average low of 46°F and high of 67°F.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min (°C)	6	10	14	20	26	28	27	26	24	18	11	7
Max (°C)	21	24	29	36	40	39	35	34	34	34	28	23
Min (°F)	43	50	57	68	79	82	81	79	75	64	52	45
Max (°F)	70	75	84	97	104	102	95	93	93	93	82	73

Average temperatures

## SUN MOVEMENT

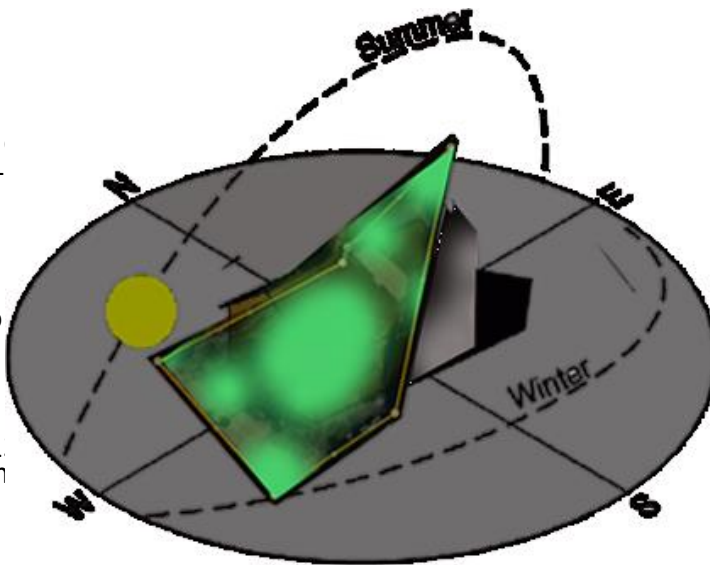
The length of the day in New Delhi varies over the course the year. In 2020, the shortest day is December 21, with 1 hours, 19 minutes of daylight; the longest day is June 21, with 13 hours, 58 minutes of daylight.

## PRECIPITATION

The wetter season lasts 2.9 months, from June 15 to September 13, with a greater than 28% chance of a given day being a wet day. The chance of a wet day peaks at 55% on July 21.

The drier season lasts 9.1 months, from September 1 to June 15. The smallest chance of a wet day is 2% on November 25.

The percentage of days in which various types of precipitation are observed.



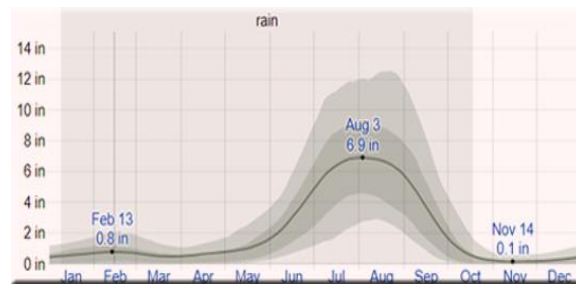
## SUN MOVEMENT OF SITE



## RAINFALL

The rainy period of the year lasts for 9.3 months, from January 9 to October 18, with a sliding 31-day rainfall of at least 0.5 inches. The most rain falls during the 31 days centered around August 3, with an average total accumulation of 6.9 inches.

Average Monthly Rainfall



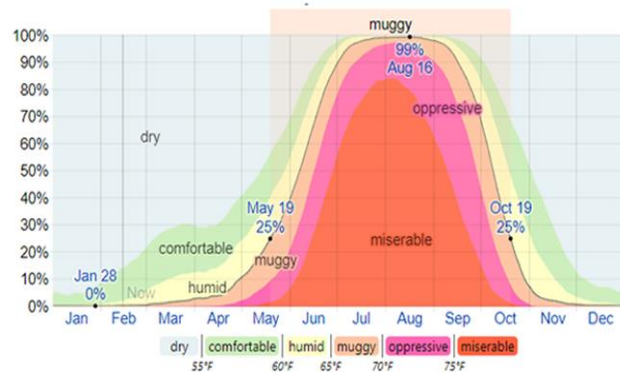
## HUMIDITY

New Delhi experiences extreme seasonal variation in the perceived humidity.

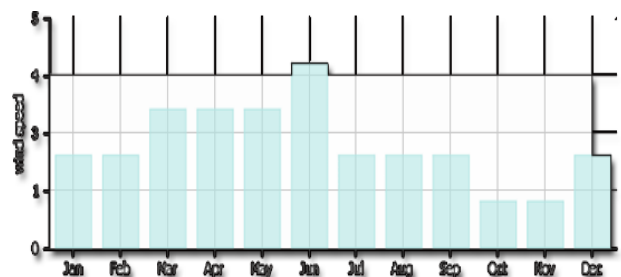
The muggier period of the year lasts for 5.0 months, from May 19 to October 19, during which time the comfort level is muggy,

oppressive, or miserable at least 25% of the time.

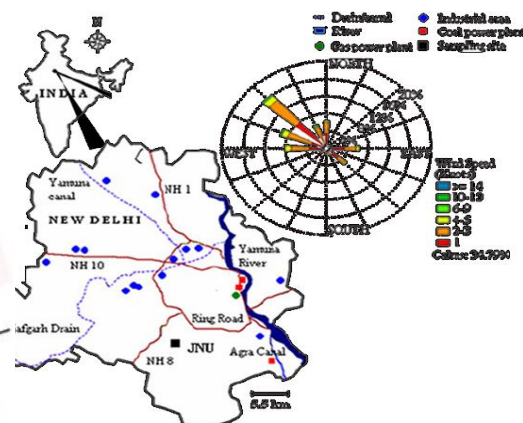
The muggiest day of the year is August 16, with muggy conditions 99% of the time.



Average Monthly Humidity



Average Monthly wind





# CASE STUDY-1 PATANJALI YOGAPEETH



## INTRODUCTION

Patanjali Yogapeeth in Haridwar, Uttarakhand, is one of the largest yoga institutes in India, possibly the whole world. Named after the Rishi Patanjali, the institute is Baba Ramdev's flagship project.

Its purpose is to practice and research and develop yoga and ayurveda, as well as manufacture ayurvedic medicines. It is also the home of the University of Patanjali.

## LOCATION & APPROACH:-

- Located on the Haridwar-Delhi highway at, very near to Roorkee, HARIDWAR.
- Pantanjali Yogpeeth is about 20 km from Haridwar at Kankhal and about 15 km from Roorkee.
- Dehradun is 27 miles from Haridwar,

### KEY INFORMATION:--

Founder(s)	Baba Ramdev, Acharya Balkrishna
Established	2006
Focus	Yoga, Ayurveda and medical aid.
Chairman	Acharya Balkrishna
Key people	Baba Ramdev
Owner	Divya Yog Mandir (Trust)

Architect: combine space

### UNIVERSITY OF PATANJALI

Patanjali Yogpeeth comprises two campuses named :-

- 1.Patanjali Yogpeeth - I      2.Patanjali Yogpeeth - II

### Patanjali Yogpeeth – I

This first Yogpeeth campus was commissioned on 6 April 2006.

- Patanjali Ayurveda College. In 2010, this study and research facility was commissioned as part of the university and has 122 students as of 2013. Inside the Campus library is a special area dedicated to the research of yoga and ayurveda.

### FACILITIES:-

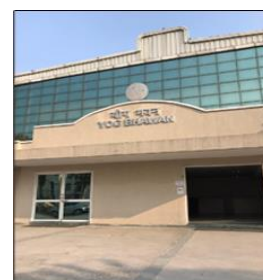
- 1.Hospice
- 2.Canteens
- 3.Ayurvedic collages
- 4.Ayurved hospital
- 5.Yoga and meditation
- 6.Herbal Garden
- 7.Auditorium
- 8.Mega stores
- 9.Residential units
- 10.Sinage for help.

### AMENITIES:-

- 1.ATM
- 2.Public toilet
- 3.Parking



1.Patanjali Yogpeeth - I.



.Yog Bhavan



## PATANJALI YOGPEETH – II

This second Yogpeeth campus was inaugurated in April 2009. Yog Bhavan Patanjali Yog Bhawan is a huge auditorium of 200,000 sq. ft. where thousands of participants practice yoga, pranayama and meditation together. Shradhalayam is a 60,000 sq. ft. air conditioned auditorium.

Panchkarma & Shatkarma Centre is a 40,000 sq.ft.

centre where up to about 1,000 people can perform

and participate in panchakarma and shatkarma therapy.

## OTHER FACILITIES

- Patanjali Residencial facility for the outside visitors.
- Yoga and Research centre.
- Valmiki dhramshala
- PARKING (canteen)
- Parking
- Seva Sadan

## PATANJALI HERBAL GARDEN:-

. Patanjali Herbal Garden site Nursery, Patanjali Herbal

Garden site Gurukul Gaushala Farm, situated nearby Patanjali Yogpeeth at Maharishi Dayanand Gram,

. Delhi-Haridwar highway. These Herbal Gardens have

beautiful collections of more than 200 medicinal herbs, shrubs, trees climbers and ornamental plants.

Since, 1997 it was a great effort with high spirit to collect the valuable medicinal plant and to ensure to grow in Garden, a Divya Vanaushadhi Vatika has been earlier established in the Ashram at Kankhal.

. **PATANJALI AYURVEDIC COLLAGE:-**The

Patanjali Ayurved College has been established with the permission of Ayush Department Govt.

of India, under the patronage of Patanjali Yogpeeth, the world renowned Institution of Medical Science

& Research in Yoga and Ayurveda run by the blessing of H.H. Swami Ramdevji Maharaj.



## PATANJALI YOGAPEETH-2



## SINAGE BOARDS



## HERBAL PLANTS

Area : 2.6 Hectares

Institution Type : Govt.

Recognition : Central Council of

Indian Medicine (CCIM)

Affiliation : Uttarakhand Ayurveda

University Harrawala, Dehradun, Uttarakhand

# CASE STUDY -2

## BAPU NATURE CURE HOSPITAL & YOGA ASHRAM



### INTRODUCTION

Bapu Nature Cure Hospital & Yogashram (BNCHY) has aligned its goals on the similar fundamentals acknowledged by Gandhiji where Naturopathy and Yoga are recognized as the finest, trouble-free and reasonably priced systems of medicine for the poor and downtrodden section of the society who cannot afford the costly medicines.

Today, Bapu Nature Cure Hospital and Yogashram is one among the few leading Nature Cure Hospitals in the Country helping a good share of regular health seekers, patients, students, interns and so on. The institution has been highly vigorous in imparting health care training to Schools, Corporates & Government Institutions.

### LOCATION AND APPROACH:-



Gandhi Smarak Nidhi, Mayur Vihar, Delhi, 110091.

DISTANCE:-

Bus:- Bapu nature cure is 13.0 km away from the ISBT Delhi via NH44 , Takes 32 min.



Train:- Bapu nature care is 10.0 km away from the Railway station via Noida link road, takes 25 min.



Airport:-Bapu nature cure is 22.7 km away from Indira Gandhi International Airport via Baba banda singh bahadur , setu, Takes 50 min



### REASON TO CHOOSE THIS:-

1. This centre have all requirements which i want to provide on my mental health development Centre.
2. Bapu Nature Cure Hospital & Yogashram teaches Yoga and helps individuals remain ,physically and mentally energetic.
3. This site is available in Delhi as mine is also, having same topography climate and conditions.

### FACILITIES :

The existing premises of hospital is well equipped with following wings to cater 50 indoor & 300 outdoor patients:

- |                             |                                   |   |
|-----------------------------|-----------------------------------|---|
| 1. Naturopathy Department   | 6. Laboratory                     | • <b><u>Beautiful lush green 3 acres of campus with hospital approved by MCD &amp; allotted by DDA.</u></b> |
| 2. Physiotherapy Department | 7.Nature Cure S                   |   |
| 3. Ayurveda Department      | 8.Green Leaf Food Court           |   |
|                             | 9.Research and Development Center |   |
|                             |                                   |   |



**CONCEPT OF NATURE CURE:-**

Three basic concepts of Nature Cure

- Accumulation of morbid (waste & toxic) matter
- Abnormal composition of blood & lymph
- Lowered vitality.

**Vision**

Our vision is to encourage awareness on Naturopathy and Yoga, as the most competent solution for prolonged health and fitness.

**Mission**

Our mission is “Promotion of Holistic Health

Care through Naturopathy, Yoga therapy, Ayurveda and other drugless systems of medicines for the benefit of mankind.”



- (1) Nature Cure believes that all the diseases arise due to accumulation of morbid matter in the body. If scope is given for its removal, it provides cure or relief.
- (2) Nature Cure also believes that the human body possesses inherent self constructing and self healing powers.

**EXISTING IMAGES**



**AYURVEDA HOSPITAL**



**NATUROPATHY DEPARTMENT**



**PHYSIOTHERAPY**

**MATERIALS USED IN NATURE CURE:-**

- campus is designed by keeping architecture in mind.
- Materials used in building are energy efficient and sustainable.



**FLOORING**

1. TILE FLOORING
2. CONCRETE
3. LAMINATE
4. STONE FLOORING

**STRUCTURAL**

1. BRICK
2. STONE
3. TIMBER
4. STEEL

**Architectural**

1. The walls of building are sound insulated.
2. Tiles used in walls to enhance esthetic look.
3. Clay tiles used in roof.

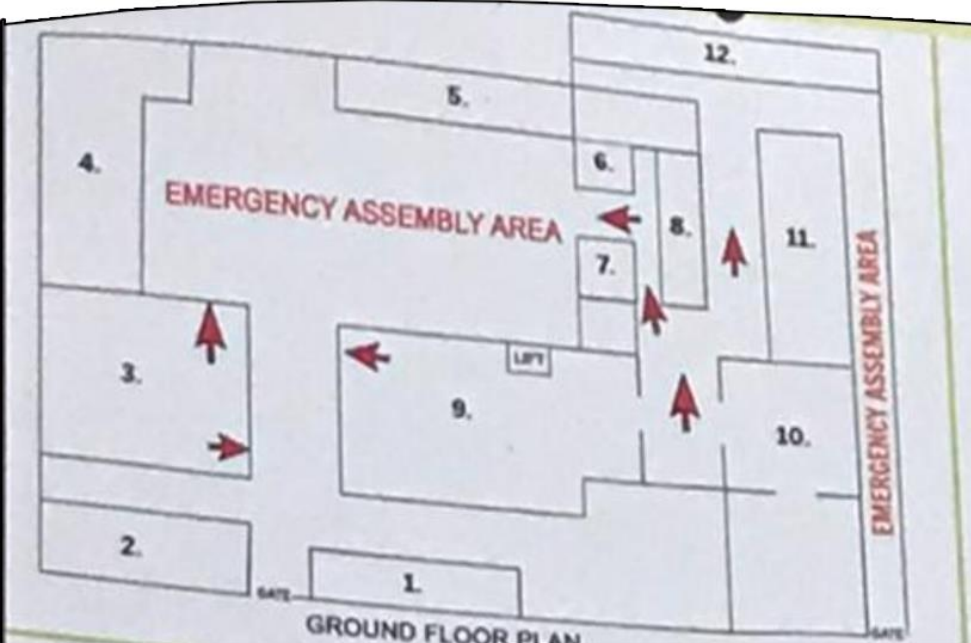


**Vegetation on centre**

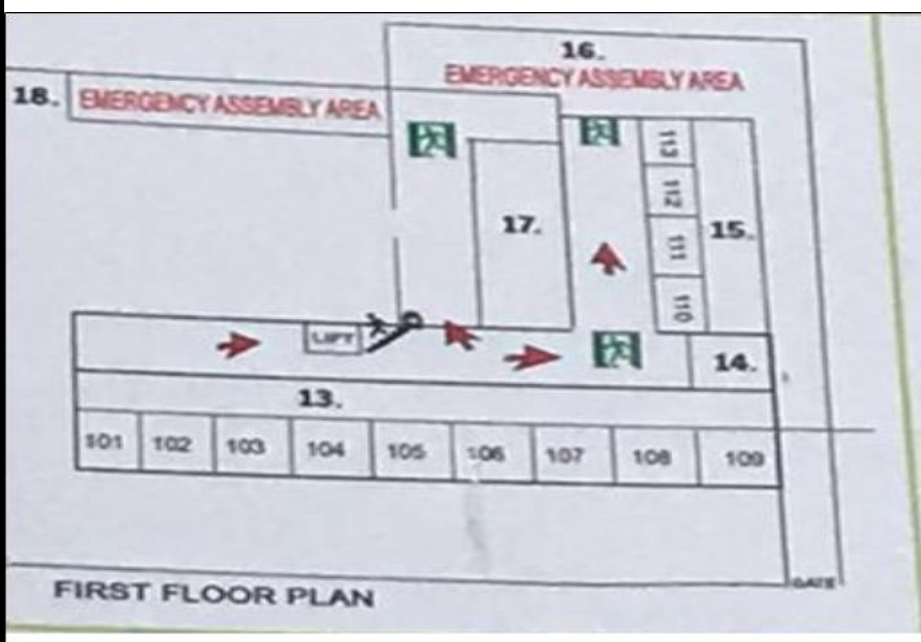
**VEGETATION:-**

- ☐ Various types of herbal plants are ayurveda medicine plants are present there as they are used for the treatment purpose.
- ☐ Herbal plants also enhances the asthetical look of the centre.
- ☐ They produce their vegetables in the restorent.

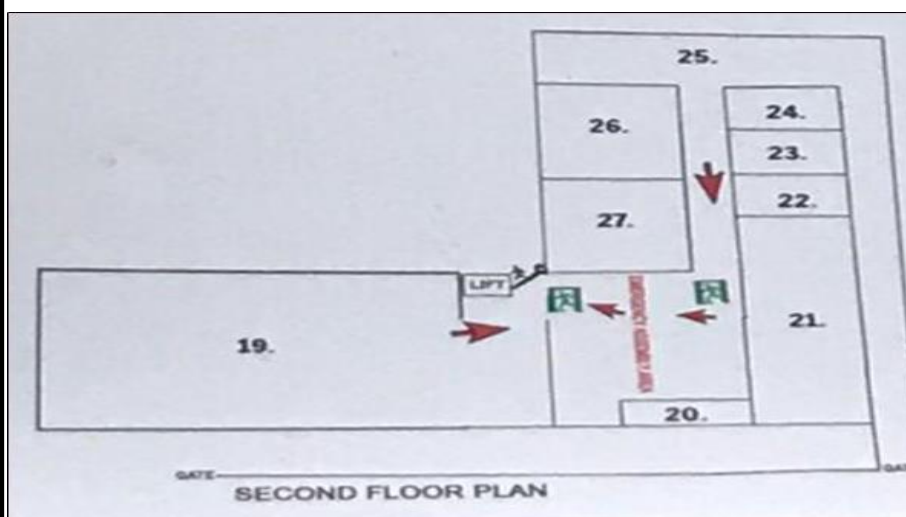
# FLOOR PLANS OF HOSPITAL



## 1. GROUND FLOOR



## 2. FIRST FLOOR



## 3. THIRD FLOOR

1. MEDICAL SHOP
2. AYURVEDA
- TREATMENT SECTION
3. OPD
4. HOSTEL
5. PHYSIOTHERAPY
6. BILLING
7. STORE
8. TREATMENT SECTION (MALE)
9. TREATMENT SECTION (FEMALE)
10. PATIENT ROOM NO.20-23
11. CANTEEN AREA
- 13.PATIENT ROOM NO. 101-109
- 14.NURSING CABIN
- 15.PATIENT ROOM NO. 110-113
- 16.TERRACE
- 18.TERRACE (EMERGENCY)
- 19.YOGA HALL
- 20.WASHROOM
- 21.MALE GEN. WARD
- 22.PRIVATE YOGA ROOM
- 23.LAB
- 24.STORE
- 25.FEMALE GEN. WARD.
26. CONFERENCE ROOM.

# LITERATURE STUDY -1

## KAIRALI - (THE AYURVEDIC HEALING VILLAGE)

### INTRODUCTION

Kairali - The Ayurvedic Healing Village is situated at Palakkad...a land of palm trees and paddy fields. Its known to be rich in flora and fauna.

Etymologically Palakkad is derived from the words Pala and Kadu. Pala, (Alstonia Scholaris) is a tree with sweet scented flowers and Kadu meaning forest. Palakkad has probably the biggest mountain pass in the world (30-40 kms) separating the two folds of the Western Ghats on the border of Kerala with Tamil Nadu. It is the chief granary of Kerala, often called Gateway of Kerala. Palakkad lies at the foot of the gigantic Western ghats on the border of Kerala. Palakkad is known for its historical background..This district with mountains, forests, and fertile valleys, rivers and mountain streams are rich in flora and fauna.

KaAIRALI - basicly treats people mentaly, physically and spiritually with the help of

ayurved, Ayurvedic elements are:

1. Ether    4. Earth
2. Fire    5. Water
3. Air

### LOCATION AND APPROACH:-

Kairali - The Ayurvedic Healing Village is a Green Leaf Ayurvedic resort spread over 50 acres in Olassery , Kodumbu in the Palakkad district.

The red placemark is the healing centre and the yellow line is the way in from the Palakkad- Chittur rd..

**By Road**: Palakkad is well connected by good moterable roads with the major cities of kerala and Tamil nadu. The centre is 12 km away from the city centre.

**By Air**: The Nearest Airport is Coimbatore & Cochin Airport which is 60 kms away. To the south is cochin airport, 120 kms away.

**By Rail**: There are two railway stations here. The main one is the Palakkad on Station 5 kms from the city and other is in the town.





# SITE PLAN

12. HERBAL GARDEN

18. TREATMENT CENTRE

8. TENNIS COURT  
9. SWIMMING POOL  
10. MEDITATION CENTRE

19. TREATMENT CENTRE

4. MAIN CANTEEN  
5. GAMES/BILLARD ROOM  
6. SECOND CANTEEN

7. AYURVEDIC HOSPITAL

20. TOILET

16. TRADITIONAL VILLAS

15. CLASSIC VILLA

17. LIBRARY

12. HERBAL GARDEN  
13. TOILET  
14. SITTING KIOSK

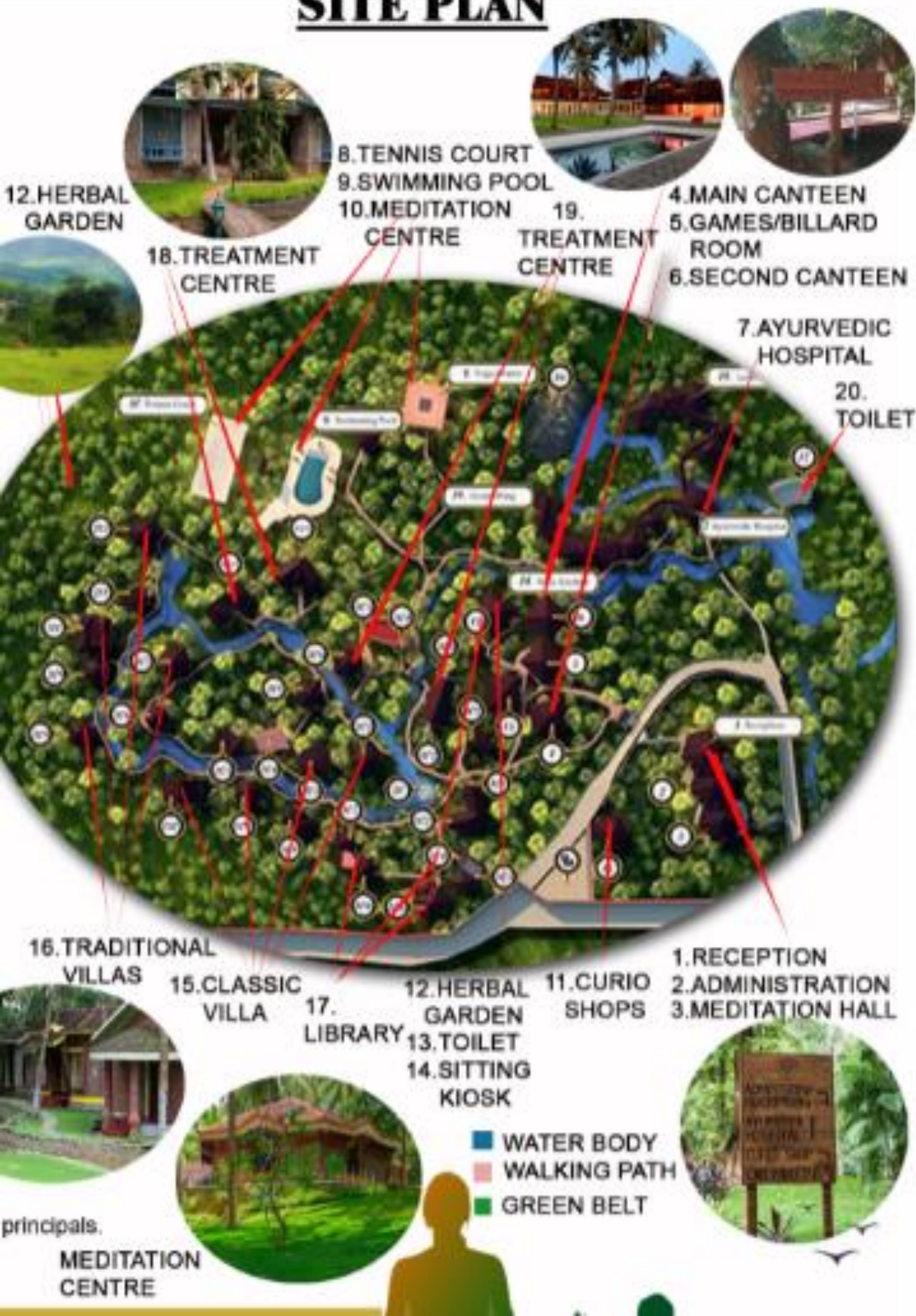
11. CURIO SHOPS

1. RECEPTION  
2. ADMINISTRATION  
3. MEDITATION HALL

principals.

MEDITATION CENTRE

■ WATER BODY  
■ WALKING PATH  
■ GREEN BELT





### FLOOR PLANS:-



BALLYDOY WITH A VIEW TO



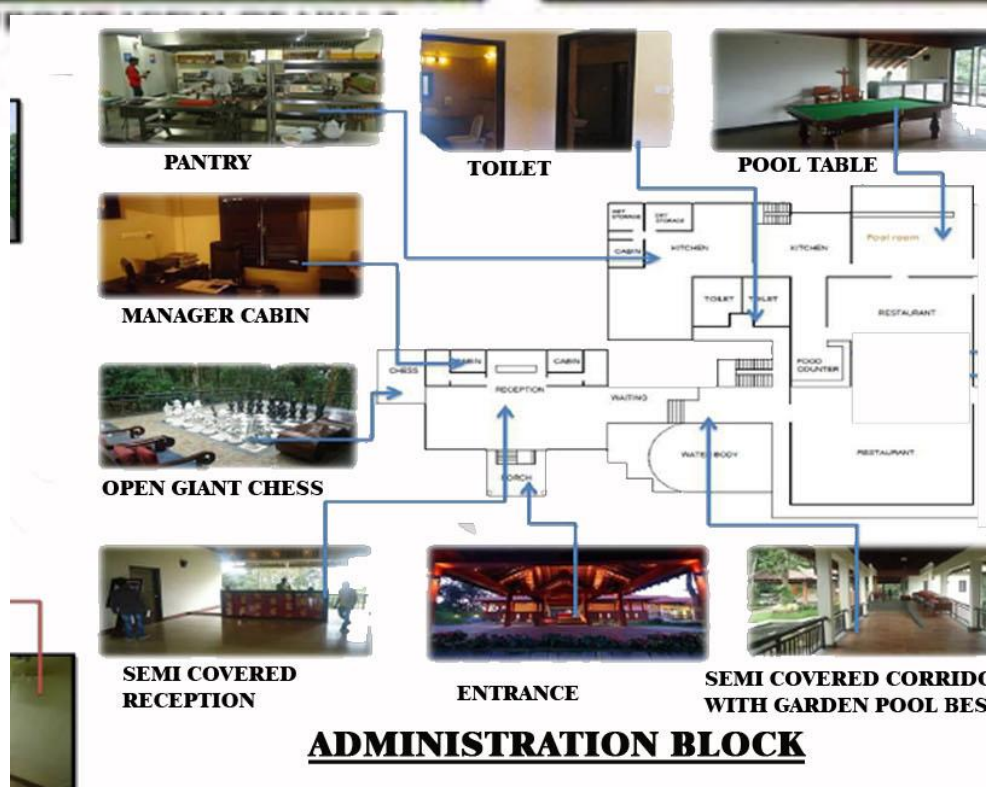
**BACK VIEW**



### BED ROOM



**LIVING ROOM**



## **SERVICES**



**SWIMMING POOL**



**INDOOR GAMING**



**SPA**



**OPEN SHOWER**



**CANTEENS**



**SINAGES**





# LITERATURE STUDY -1

## MATRIMANDIR, AUROVILLE



### INTRODUCTION

Matrimandir, which is the Sanskrit word for 'Temple of The Mother', is the most important edifice of the Auroville township in Pondicherry.

It is called soul of the city and is situated in a large open space called Peace, that was designed by Roger Anger. The foundation of the Matrimandir was laid by The Mother in the year 1971, and it took 37 years to be built. The construction was completed in the year 2008.

The Matrimandir is an edifice of spiritual significance for practitioners of Integral yoga, in the centre of Auroville established by The Mother of the Sri Aurobindo Ashram.

At the same time, it is also a place for individual silent concentration. Matrimandir to be the divine's answer man's aspiration for human perfection.

### LOCATION & approach:-

Matrimandir is located 10 kilometres from Pondicherry town, from where you can take a direct bus or taxi to Auroville. Matrimandir is situated in the Auroville township Auroville also has a Shared Transport Service (STS) you can book your vehicle from Pondicherry on sharing basis and at a reduced cost.

### DESIGN CONCEPTS AND PHILOSOPHY :-

The idea of the Matrimandir was initiated by The Mother of the Sri Aurobindo Ashram. According to the teachings of Sri Aurobindo, the concept of the 'Mother' represents the 'great evolutionary, conscious and intelligent principle of Life', that is the Universal Mother aims to help humankind to move ahead of its present limitations onto the next stage of its evolutionary adventure, which is the supramental consciousness.

Matrimandir is a place for acquiring peace and meditation and belongs to no particular any discrimination by caste, religion, colour or socio-economic status, with the sole purpose of realising human unity.

### BUILDING CONSTRUCTION AND MATERIALS:-

The entire structure uses reinforced cement concrete. At the same time, the harsh starkness of concrete is hidden through various cladding to evoke a certain illusionary ambience a dream like space. The industrial finish of the geodesic structure is covered up by parabolic stainless steel discs, clad with gold foil fused between glass plates giving the whole structure an expression of purity, beauty and grandeur,

- It has two ramps and pillars which do not touch the ceiling ,  
in order to give a feeling that meditation has no limit.



MODEL SECTION

- The white marble is a symbol of peace here , and the symbol of flower has 12 petals representing attributes of the Universal mother.
- The emphasis is given to the surfaces in terms of colours and textures, becoming the dominant architectural features controlling and directing the light quality and overall ambience inside and outside the building.
- The reinforced concrete framework, infilled with ferrocement panels, is covered with red sandstone transported from Agra, to form the petals around the structure. The sandstone is intermixed with patches of grass, in an expression of dissonance; a depiction of the rising Earth rending open to a craters space for the supernatural floating appearance of the structure.



TOP VIEW

## BUILDING MATERIALS EXTERIORS:-

### OBSERVATION

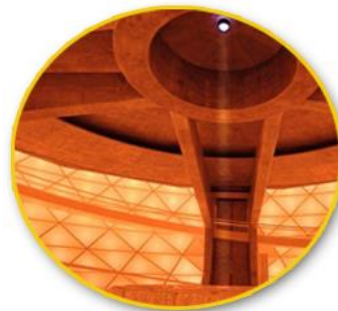
- It has a unique shape of a flattened sphere , which is coated with golden discs and this is to represent , that there are no ends and corners , and that the whole world is round like a sphere here.

### ASTHETIC APPEARANCE:-

- ☐ The gold discs cladding
- Disc frams: stainless steel sheet
- ☐ Disc material- stainless steel sheet
- ☐ Gold leafe: 28 gm of gold per 1000 leaves
- ☐ Leaf size: 85mm X 85mm
- ☐ Total number of discs: 1415
- ☐ Small convex discs: 954
- ☐ Large concave discs: 461
- ☐ Av. diameter (large discs)- 2.3 meter
- ☐ Av. diameter (small discs): 1.5 meter



GOLDEN DISC



INTERIOR GLASS



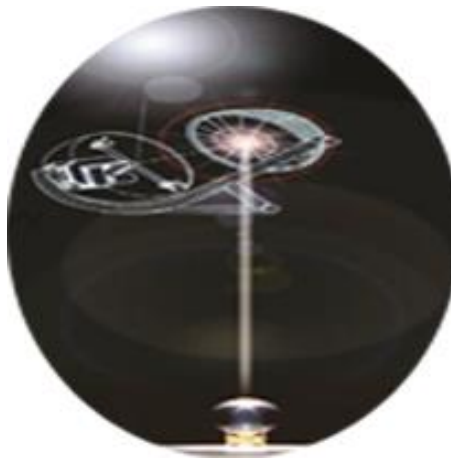
INTERIOR GLASS



INTERNAL GALLERY

## **MATERIAL DETAIL:-**

- ❑ Interior glass inner skin.
- ❑ Glass cladding has been provided on the inner line of the sphere of Matrimandir .Big peach coloured panels, 800 in number are required to cover the entire inner surface area of about 3,000 sq. Mts.
- ❑ After fusing colour onto 8mm thick float – glass it is laminated to a second sheet of clear glass for safety reasons. Each glass panel triangular in shape is roughly measuring 3Mts. At the base and 2.4 Mts. In height.



**Exterior construction**

**The heliostat and lens**

**Prefab truss**

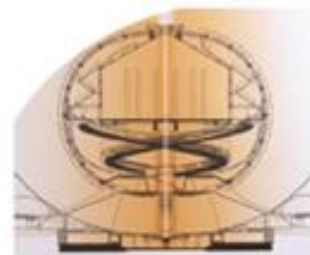
## **Construction Details**

### **BUILDING MATERIAL EXTERIOR:-.**

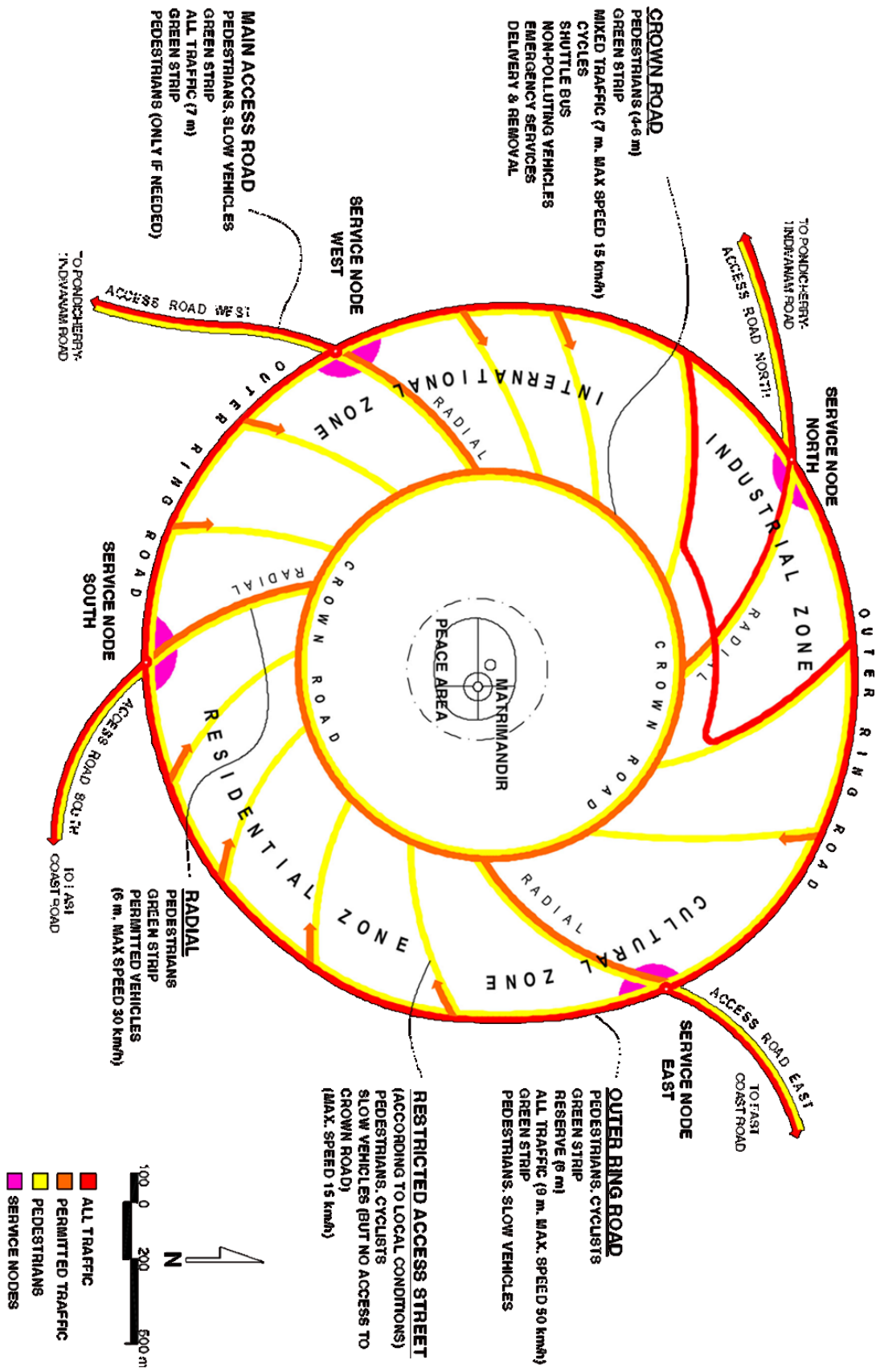
- The outer shell consist of ferrocement triangles which are prefabricated in workshop, lifted in place and then grouted.

### **The heliostat and lens:-**

- To realize the Mother's concept of a strong half of light always striking the centre.
- Developed a prototype non-tracking mechanism called a heliostat which will be used to direct sun's rays onto a crystal globe.



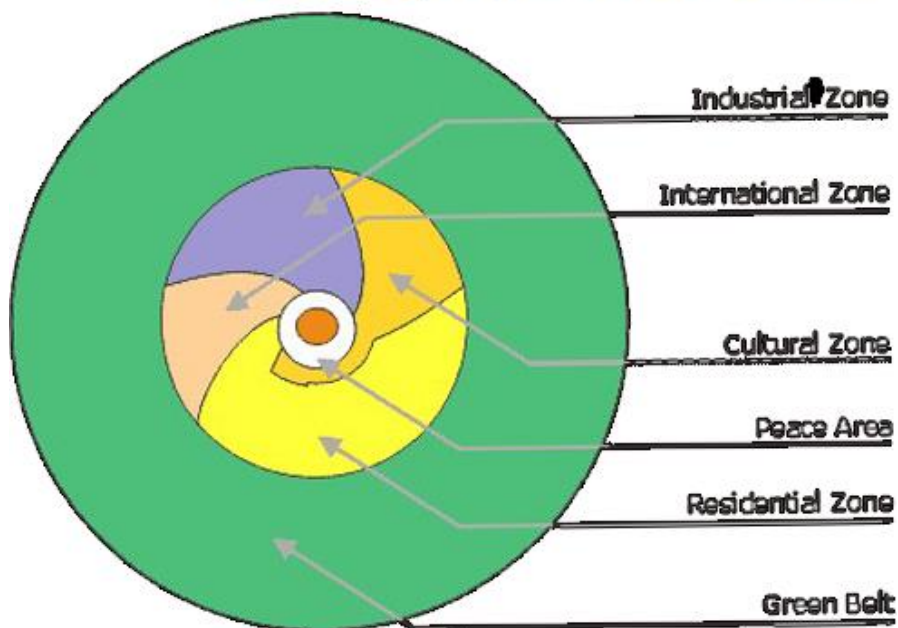
# THE GALAXY PLAN OR SITE PLAN





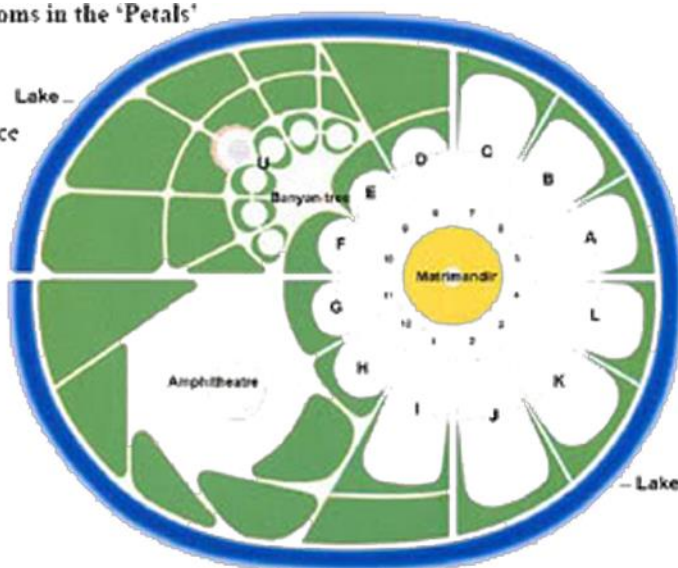
# KEY PLAN

## Peace Area, City Zones & Green Belt



### Meditation rooms in the 'Petals'

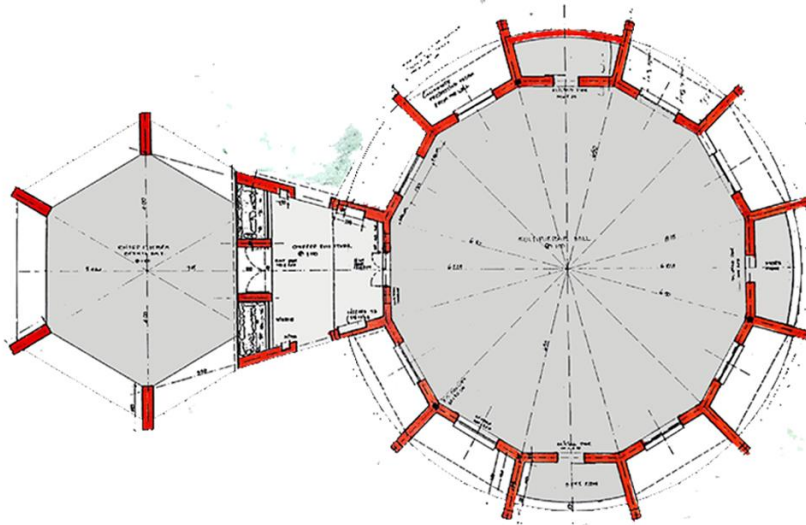
1. Sincerity
2. Humility
3. Gratitude
4. Perseverance
5. Aspiration
6. Creativity
7. Progress
8. Courage
9. Goodness
10. Generosity
11. Equality
12. Peace



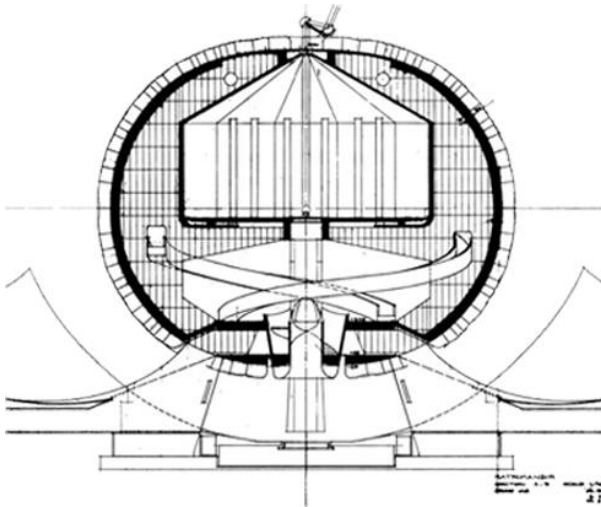
### Gardens

- A. Existence
- B. Consciousness
- C. Bliss
- D. Light
- E. Life
- F. Power
- G. Wealth
- H. Utility
- I. Progress
- J. Youth
- K. Harmony
- L. Perfection
- U. Unity

# MATRIMANDIR



PLAN OF MATRIMANDIR



SECTION OF MATRIMANDIR



MODEL VIEW

# CONCEPT

## ENERGY CENTERS OF THE HUMAN BODY

### "7 CHAKRAS WITH MUDRAS"



#### WHAT ARE CHAKRAS?

The word chakra literally means "wheel" in Sanskrit and symbolises the flow of energy in our body. The 7 chakras present in your body are actually energy centres and are known to regulate emotions.

#### LOCATION OF THE CHAKRAS.

They start from the pinnacle of your head and go all the way to the very end of your spinal cord. It ensures that there is a harmonious flow of energy throughout the body.

#### AIM OF THE CHAKRAS.

According to the meditation practices, if the chakras ever become Out of sync, they can negatively impact your physical, mental and spiritual health. Each of the chakras is associated with a particular body part and its proper functioning.

- It is believed that the chakras vitalize the physical body and influence the physical, emotional and mental movements of the mind and body.

#### INCORPORATING CHAKRA'S WITH MY CONCEPT

- Site is evolving with 7 blocks by correlating with the 7 chakras.
- The form evolution of these blocks will be evolved by following hand mudras which are used in 7 chakras.

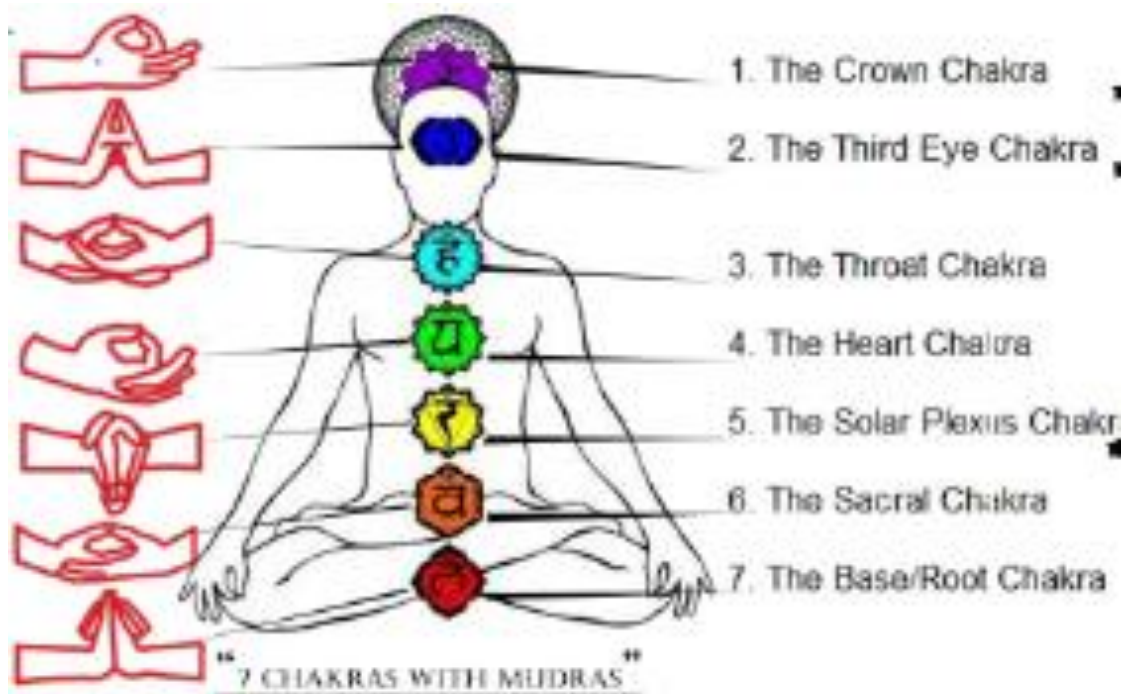
#### (7 CHAKRAS DEFINING BLOCKS)

Crown chakra	- Administration block
Third eye	- Meditation and Yoga
Throat chakra	- Mental awareness zone
Heart chakra	- Accommodation Unit
Solar plexus	- Skill development
Sacral chakra	- Food court
Root chakra	- Health care department

#### (7 CHAKRAS DEFINING HUMAN EMOTIONS)







## **REASON TO CHOOSE THIS AS CONCEPT**

This concept has been adapted to design a place whose ultimate aim is to connect a bond with yourself.

Like “7 chakras” heal your body mentally, physically and spiritually, I have also developed 7 blocks in my site which will guide and help human beings to heal from mental stress.



Like every chakra have their own location speciality, colour and element( Earth, Water, Fire, Wind and Space), Site and its block are also going to be zoned similarly by considering Panchtatva theory.



EARTH

WIND

WATER

FIRE

SPACE



# DESIGN CONSIDERATION

## SITE ORIENTATION

- LONGER AXIS OF THE SITE IS (EAST-WEST).
- SHORTER AXIS OF THE SITE IS (NORTH-SOUTH).

**2.PLANNING TECHNIQUE:** MAXIMUM WINTER SUN EXPOSURE TO THE BUILDING IN THE SUMMER.

- SUMMER SHADING FROM SURROUNDING TREES.
- NATURAL WIND VENTILATION WITH OPERABLE WINDOWS.
- BUILDING BLOCKS WILL BE ARRANGED IN NORTH-WEST DIRECTION TO TAKE ADVANTAGES OF PREVAILING BREEZES.
- LOCAL AND SUSTAINABLE MATERIALS WILL BE USED SUCH AS
- 1.TIMBER,
- 2.METAL
- 3.PRE-CAST CONCRETE STRUCTURES, ETC.

## **Courtyard:**

Building form derived in such a way that it creates courtyard.

Courtyard architecture is beneficial for user

& the site as well because of its natural

benefits such as maintaining optimal temperature

proper light and good air flow as courtyard engages

within itself.

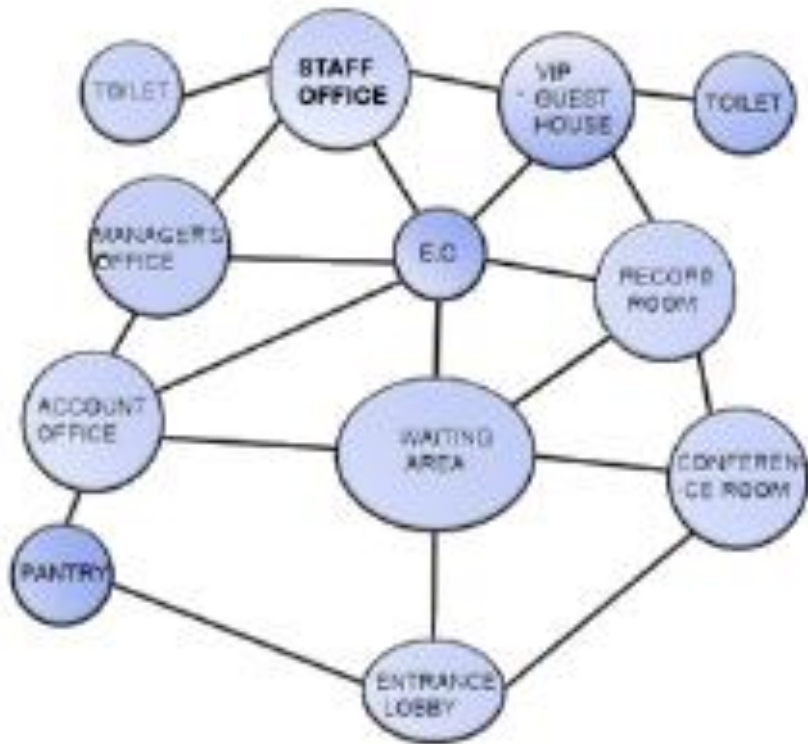
## **ROOF GARDENING**

1.A ROOF GARDEN CAN INCREASE THE LIFE EXPECTANCY OF YOUR ROOF.

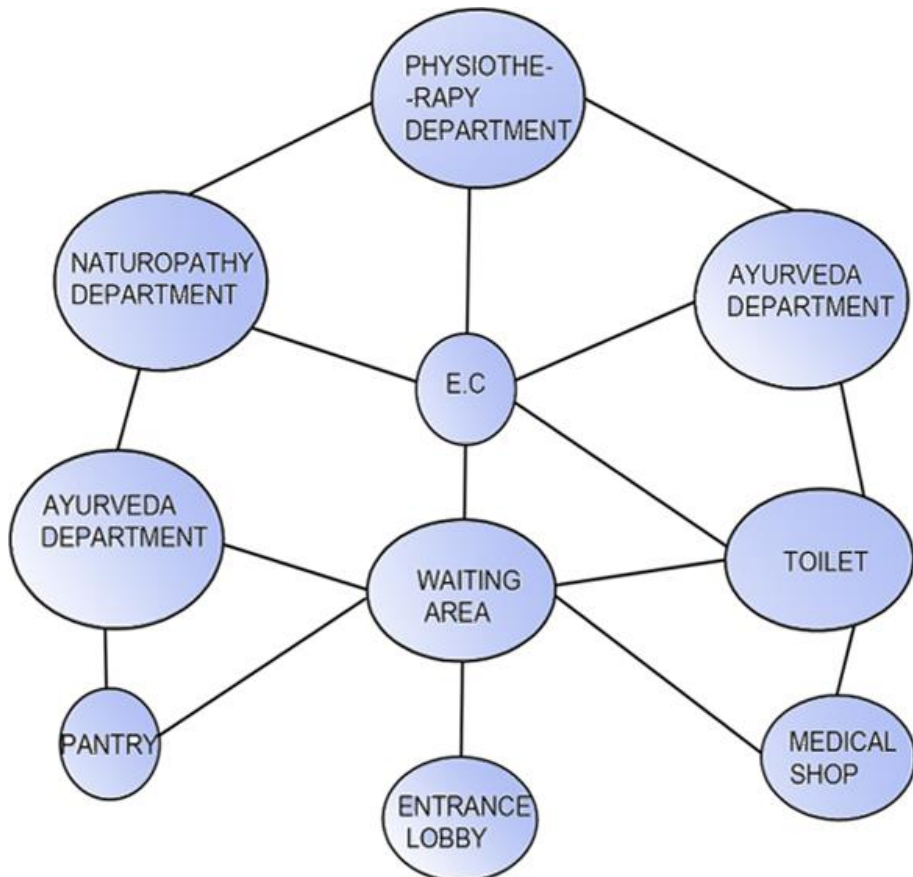
2.GREEN ROOFS RETAIN AND MANAGE STORMWATER.

# STACKING

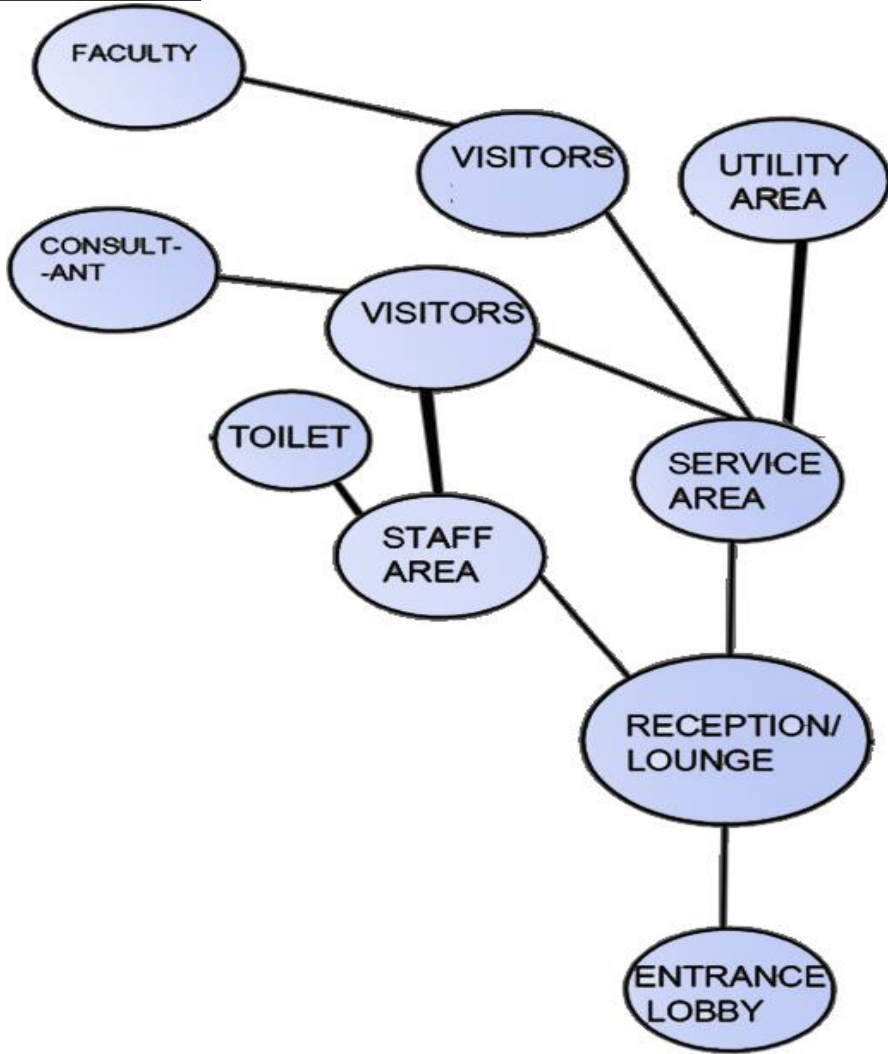
## 1. ADMINISTRATION BLOCK



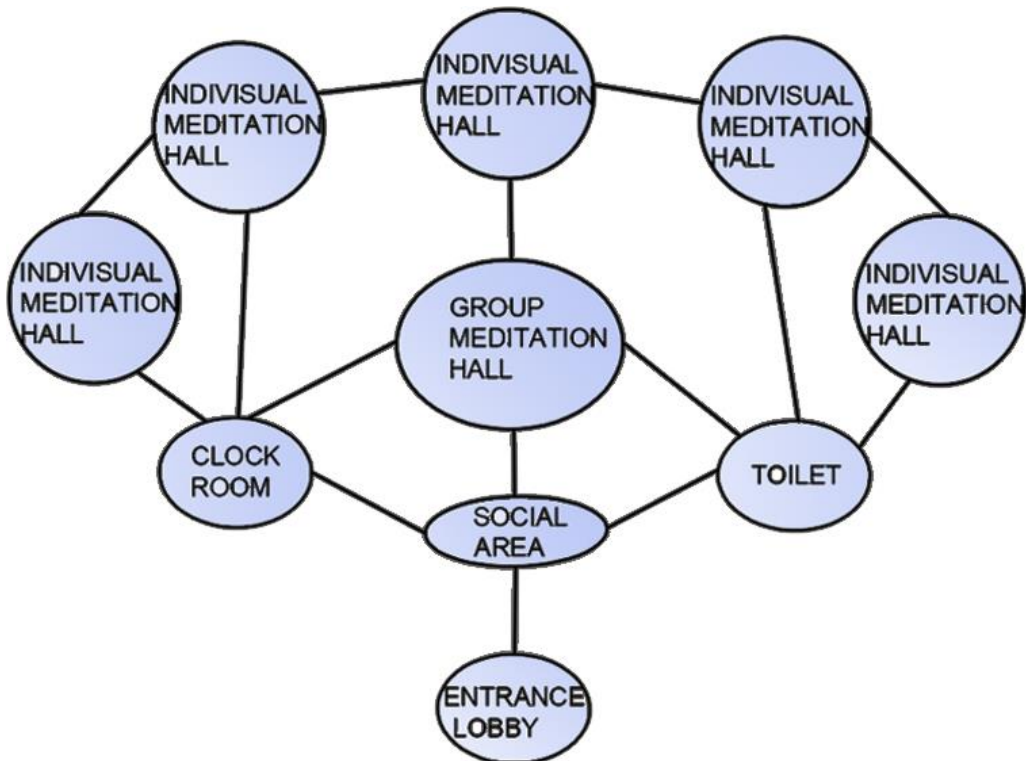
## 2. HEALTH CARE DEPARTMENT



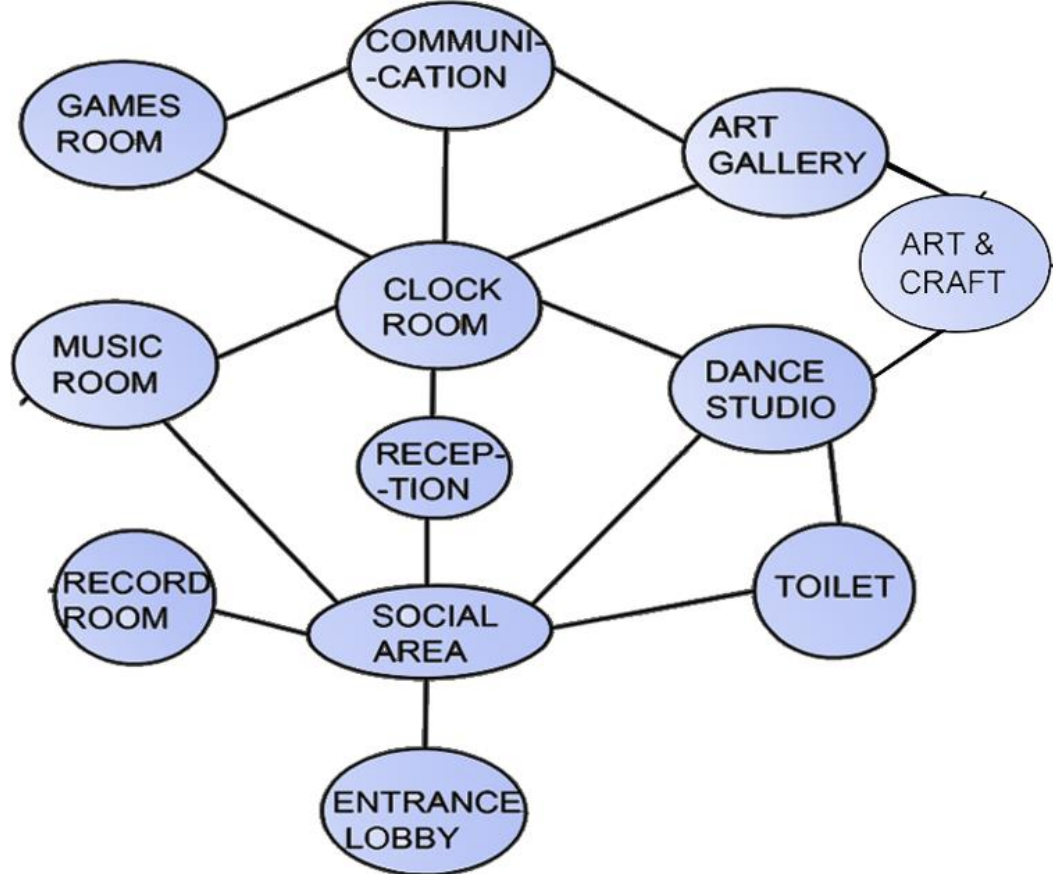
### 3. ACCOMMODATION



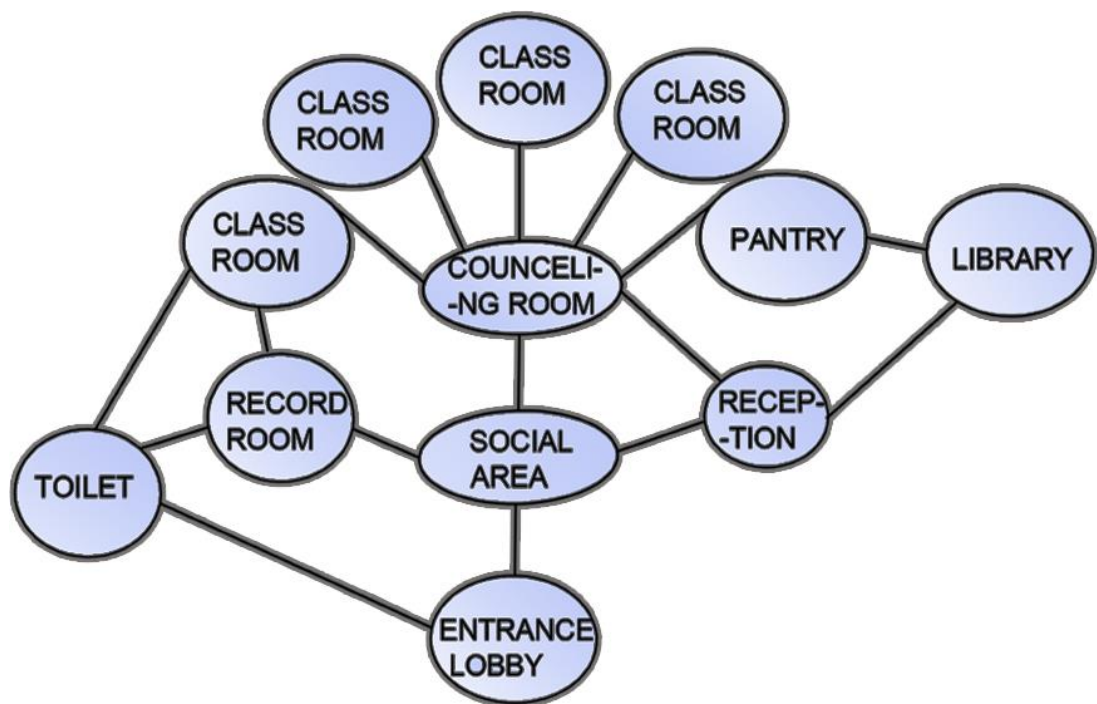
#### 4.MEDITATION AND YOGA CENTRE



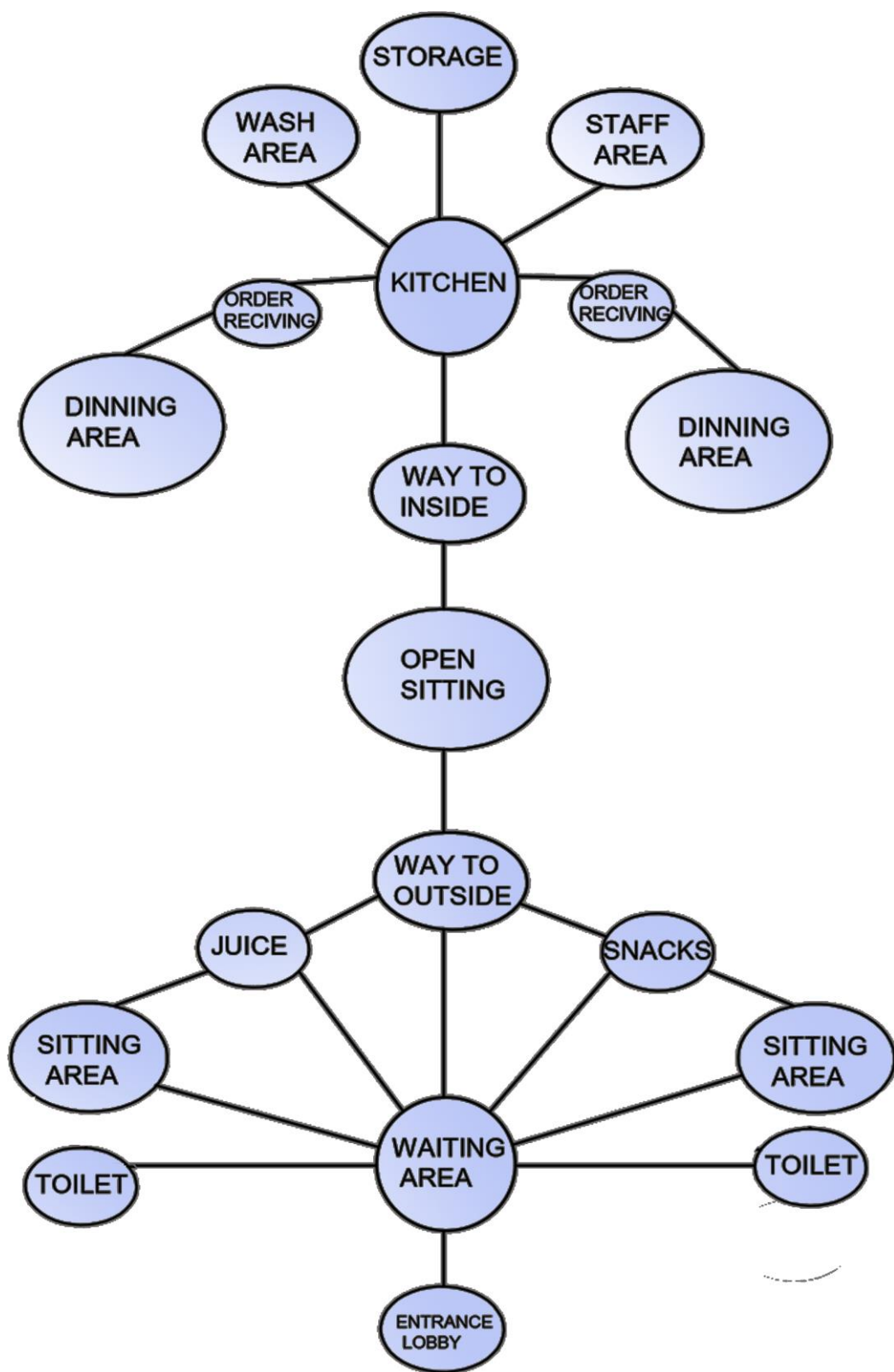
5.SKILL DEVELOPMENT



6. MENTAL AWARENESS ZONE



7. FOOD COURT



# AREA ANALYSIS

S.NO.	REQUIREMENTS	CAPACITY	AREA AS PER STANDARD	AREA REQUIRED
<b>MEDITATION AND YOGA CENTRE</b>				
1	<b>MEDITATION SPACE</b>			
1	RECEPTION	5-8 PERSON	0.9 SQ.M/PERSON	9 SQ.M
2	SOCIAL AREA	30 PERSONS	0.9 SQ.M/PERSON	27 SQ.M
3	LOCKER ROOM	2 NOS.	2.2 M X 4.2M	18.2 SQ.M
4	TOILET			
	MALE TOILET			
	FEMALE TOILET			
5	GROUP MEDITATION HALL	2 NOS. (90 PERSONS EACH)	1.4 SQ.M/PERSON	252 SQ.M
6	INDIVIDUALS MEDITATION ROOM	15 NOS.	2.2 M X 4M (EACH)	132 SQ.M
2	<b>YOGA SPACE</b>			
1	SOCIAL AREA	30-40 PERSONS	0.9 SQ.M/PERSON	36 SQ.M
2	LOCKER ROOM	2 NOS.	2.2 M X 4.2M	18.2 SQ.M
3	TOILET			
	MALE TOILET			
	FEMALE TOILET			
4	YOGA HALL	3 NOS. (60 PERSONS EACH)	1.8 sq.m/person	324 SQ.M
	<b>TOTAL AREA</b>			985 SQ.M
	<b>WITH 30% CIRCULATION</b>			295 SQ.M
	<b>TOTAL AREA</b>			1280 SQ.M
<b>FOOD COURT</b>				
1	WAITING AREA	10-15 PERSONS	1.2 SQ.M/PERSON	18 SQ.M
2	BILLING COUNTER	10 PERSON	0.9 SQ.M/PERSON	9 SQ.M
3	LOUNGE	40 PERSON	0.5 M SQ/PERSON	20M SQ
4	TOILETS			
	MALE			
	FEMALE			
5	SNACKS COUNTER (STANDING)	2 NOS. (5-10)	0.9 SQ.M/PERSON	9 SQ.M
6	JUICE AREA	1 NOS.	1.2M X 2M	2.3 SQ.M
7	KITCHEN AREA	1 NOS.	30% OF SITTING	60 SQ.M
8	STORAGE	1 NOS.	2.2M X 3.2M	7.2 SQ.M
9	WASHING AREA	2NOS.	3M X4.5 M	27 M SQ
10	STAFF PERSONAL	1 NOS.	2.2M X 3.2 M	7.2 SQ.M
11	OUTDOOR SITTING	60 PERSONS	1.2 SQ.M/PERSON	72 SQ.M
12	DINNING AREA	180 PERSONS	1.2 SQ.M/PERSON	216 SQ.M
13	DISH WASH PANTRY	1 NOS.	10% OF SITTING	20 SQ.M
	<b>TOTAL AREA</b>			554 SQ.M
	<b>WITH 30% CIRCULATION</b>			166 SQ.M
	<b>TOTAL AREA</b>			720 SQ.M

S.NO.	REQUIREMENTS	CAPACITY	AREA AS PER STANDARD	AREA REQUIRED
1	<b>ADMINISTRATIVE BLOCK</b>			
1	RECEPTION	8-10 PERSONS	0.9 SQ.M	9 SQ.M
2	WAITING AREA	20-30 PERSONS	1.2 SQ.M/PERSON	36 SQ.M
3	ENQUIRY COUNTER	10 PERSON	0.9 SQ.M/PERSON	9 SQ.M
4	MANAGER'S OFFICE	1 NOS	3M X 5.5M	16.5 SQ.M
5	ACCOUNTANT'S OFFICE	1 NOS	3m X 5.5m	16.5 SQ.M
6	STAFF ROOM	15-20 PERSONS	1.2 SQM/PERSON	24 SQ.M
7	TOILET			
	MALE TOILET			
	FEMALE TOILET			
8	PANTRY	1 NOS	3M X 4.5M (8 SQ.M GENERAL SIZE)	13.5 SQ.M
9	RECORD ROOM	1 NOS	3M X 4M	12 SQ.M
10	MEETING ROOM	40-50 PERSONS	1.2 SQ.M/PERSON	60 SQ.M
11	STORE	1 NOS	3M X 4.5M	13.5 SQ.M
	<b>TOTAL AREA</b>			274 SQ.M
	<b>WITH CIRCULATION 30%</b>			84 SQ.M
	<b>TOTAL AREA</b>			358 SQ.M
	<b>ACCOMODATION UNITS</b>			
1	RECEPTION	AS PER PLANNING		
2	SOCIAL AREA	30-40 PERSONS	1.2 SQ.M/PERSON	48 SQ.M
	FOR			
3	(A) VISITORS			
	ROOM TYPE 1 (SINGLE BEDROOM)	80 NOS	2M X 4.2M	672 SQ.M
	ROOM TYPE 2 (DOUBLE BEDROOM)	100 NOS	3M X 4.6M	1360 SQ.M
4	(B) STAFF (SINGLE BEDROOM)	20 NOS	2M X 4.2M	168 SQ.M
5	TOILET			
	MALE TOILET :			
	FEMALE TOILET:			
	<b>TOTAL AREA</b>			2200 SQ.M
	<b>WITH 30% CIRCULATION</b>			660 SQ.M
	<b>TOTAL AREA</b>			2860 SQ.M
	<b>SKILL DEVELOPMENT CENTRE</b>			
1	RECEPTION	8-10 PERSONS	0.9 SQ.M/PERSONS	9 SQ.M
2	CLOCK ROOM	2 NOS.	2.2 M X 4.2M	18.2 SQ.M
3	TOILET			
	FEMALE			
	MALE			
4	RECORD ROOM	1 NOS.	4M X 2.2M	8.8 SQ.M
5	DANCE AND DRAMA STUDIO	2 NOS. (50 PERSONS EACH)	3.2 SQ.M/PERSON	320 SQ.M
6	MUSIC ROOM	1 NOS. (60-80 PERSONS)	1.2 SQ.M/PERSONS	96 SQ.M
7	GARDENING CLASS	2 NOS. (50 PERSONS EACH)	1.2 SQ.M/PERSONS	120 SQ.M
8	ART AND CRAFT ROOM	1 NOS	4.2M X 5.2M	21.2 SQ.M
9	GAMES ROOM	1 NOS	10.2M X 10.2M	104 SQ.M
10	ART GALLERY	1 NOS	4.2M X 5.2M	21.2 SQ.M
	<b>TOTAL AREA</b>			800 SQ.M
	<b>WITH 30% CIRCULATION</b>			240 SQ.M
	<b>TOTAL AREA</b>			1040 SQ.M

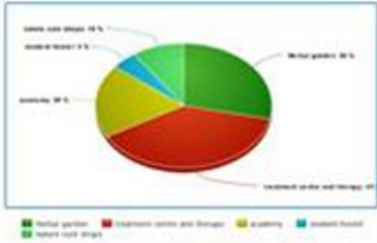
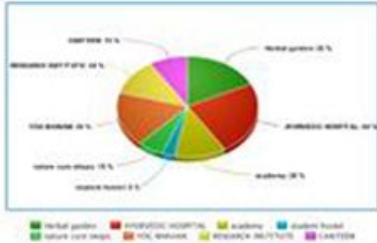
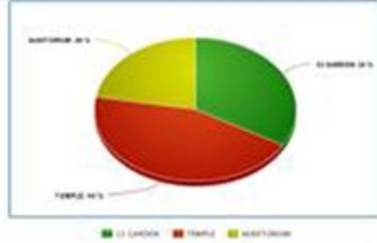
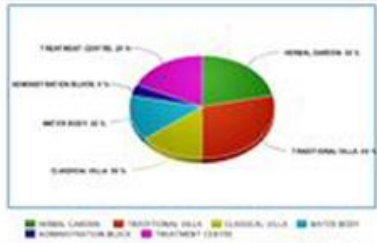


COMPARITIVE ANALYSIS				
DESCRIPTION	Bapu Nature Cure Hospital & YogAshram	Patnjali Yogpeeth	MATRIMANDIR, TAMIL NADU	KAIRALI-THE AYURVEDIC HEALING VILLAGE,PALAKKAD
	(CASESTUDY 1)	(CASESTUDY 2)	(LITRATURE 1)	(LITRATURE 2)
LOCATION	Gandhi smark nidhi, Mayur Vihar, New delhi	Haridwar-Delhi highway at very near to Roorkee, Haridwar	Auroville Pondicherry, Tamil Nadu	Palakkad, kerala
Climate	Humid sub tropical climate	Humid sub tropical climate	wet and dry climate	Tropical wet and dry climate
Architect	Ar.	Space Combine	Ar. Roger Anger	Ar. Trivedi
Footfall	100-200 people per day	50 people per hour 1200 people per day	300 people per hour 3500 people per day	-
Material	Timber, Red stones, Brick,Concrete wood laminate flooring	Sand blast stone hugly used and insulated glass	Cladding of Golden disc (stainless steel)	laterite stone and red tiles, Timber
Orientation	Longer Axis belongs to North south	Longer axis is East west, north facing diety.	South East facing temple	North facing
Area	3 Acres	65 Acres	22.2 Acres	50 Acres
Circulation ,Form and Plan	Trapizium form, scattered planning.	segragated phases and scattered planning.	The graphics symbols of Sri Aurobindo and The Mother are generators of the plan.	Blocks are segregated with concentric planning
Concept	vision is to encourage awareness on Naturopathy and Yoga, as the most competent solution for prolonged health and fitness.	Vedic Architecture	International Modernism Architecture	Traditional Vedic Hospitality

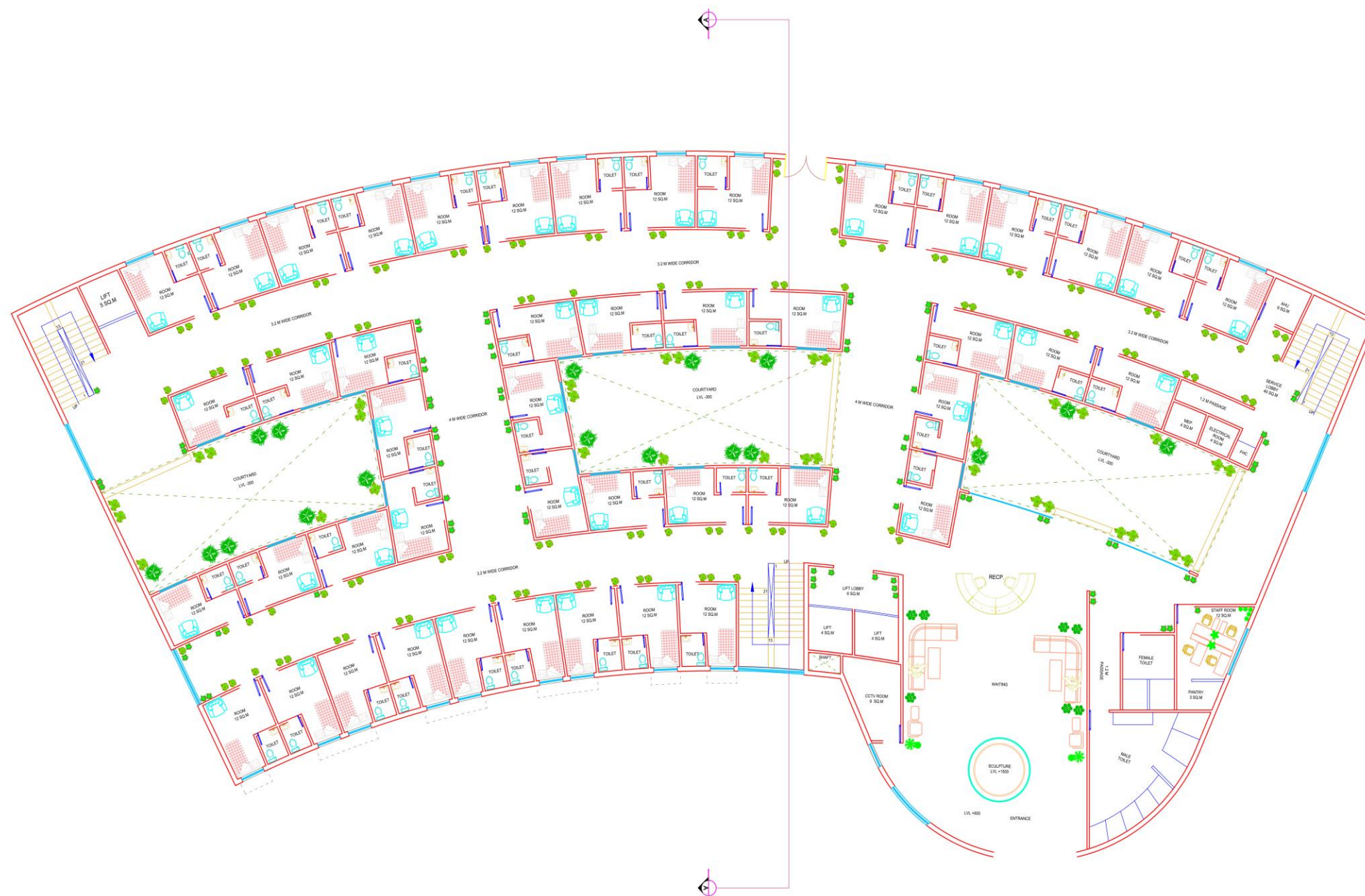
  

Concept	vision is to encourage awareness on Naturopathy and Yoga, as the most competent solution for prolonged health and fitness.	Vedic Architecture	International Modernism Architecture	Traditional Vedic Hospitality
Main Parts	Reception block Herbal Garden, Gaushala, Yoga Hall, Green leaf foodcout Academy Nature cure shops Naturopathy,Phyiisiotherapy,Ayurveda department	Patanjali ayurved hospital Annapurna and Prasadam (canteen) Research centre and institute Residential Facilities Ptanjali herbal garden Yog Bhavan hospice Parking	Entrance Plaza Temple Auditorium 12 Gardens	Administration block Traditional and Classical villas Organic and Herbal garden Restorent Ayuvedic Treatment centre
Construction Technique	Trabeated	Trabeated	Truss	Pitched roof
Architectural features	Sustainable planning and landscaping Use biophilic design to enhance healing.	Symmetry in building blocks, landscaping enhance the asthetic look of site.	Southern style architecture	Traditional style architecture
Services	DG sets, Water tank, Parking, AHU, water supply	DG sets, Water tank, Parking, AHU, water supply	DG sets, Water Tank, AHU,Water supply	water supply, drainage connection, waste disposal, electricity supply etc
Parking	NO parking is available.	Parking for 200-300 ( 3 and 2 wheelers) in phase two	No vehicular entry into the site . All the parking is outside the permises.	Parking for 200 (3 and 2 wheeler)



Area decrimination in %	 <p>Herbal garden 30% Academic 20% Treatment center and therapy 20% Nature zone 20% Student hostel 10%</p>	 <p>Herbal garden 20% Academic 20% Treatment center and therapy 20% Nature zone 20% Student hostel 10% Research institute 10%</p>	 <p>Herbal garden 30% Academic 20% Treatment center and therapy 20% Nature zone 20% Student hostel 10%</p>	 <p>Herbal garden 20% Academic 20% Treatment center and therapy 20% Nature zone 20% Student hostel 10% Research institute 10%</p>
Inferences	<p><u>Strength</u> :Different zones created all over the site, have a systematic &amp; peacefull enviornment. All the spaces have been utilized in the best possible way. Adequate services have been provided .</p>	<p><u>Strength</u> : Easy Planning makes the circulation and access simpler. All the places are interconnected and woven into a cluster, Clear Signages placed at various spots makes it easy to access any particular space.</p> <p><u>weakness</u> : Patanjali yogpeeth phases scattered, so one have to walk long to cover distances between phases.</p>	<p><u>Strength</u> :Different levels created all over the site created a systematic &amp; peacefull enviornment. All the spaces have been utilized in the best possible way.</p> <p><u>Weakness</u> : The major issue with the existing planning is that the varrious levels whicj one has to climb in order to move within the complex make it difficult for physically disabled persons to do the same as there is almost no provision of ramps to reach the upper levels.</p>	<p><u>Strength</u> :1. A traditional Vedic community perfectly integrated into its surroundings. 2. This district with mountains, forests, and fertile valleys, rivers and mountain streams are rich in flora and fauna.</p> <p><u>Weakness</u>: Don't have a ramp for physical disabled people.</p>

**ACCOMODATION**



GROUND FLOOR

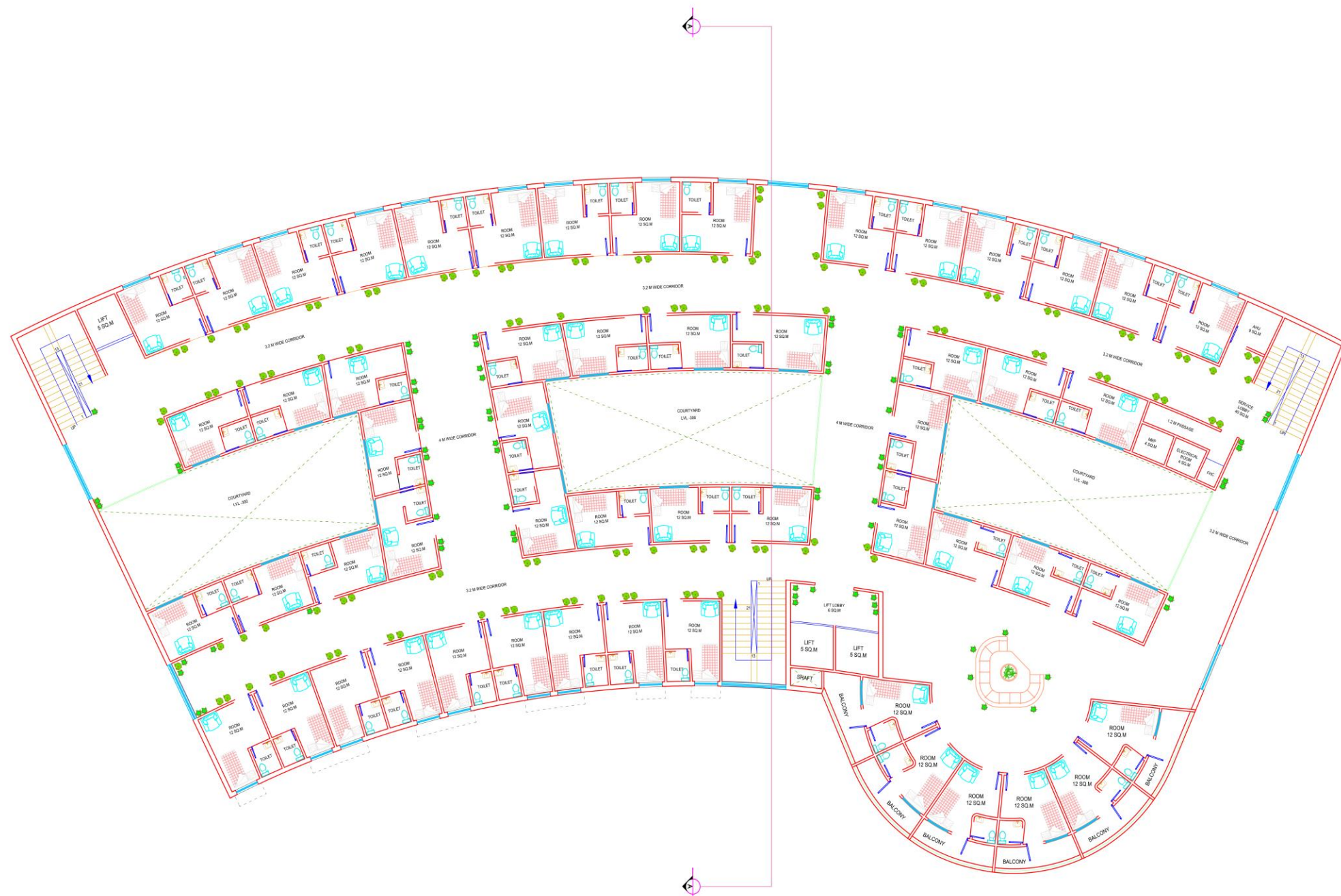
# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.

PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101052  
BABU BANARASI DAS LKO  
DATE -15-05-2020  
SIGN







FIRST FLOOR

# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.



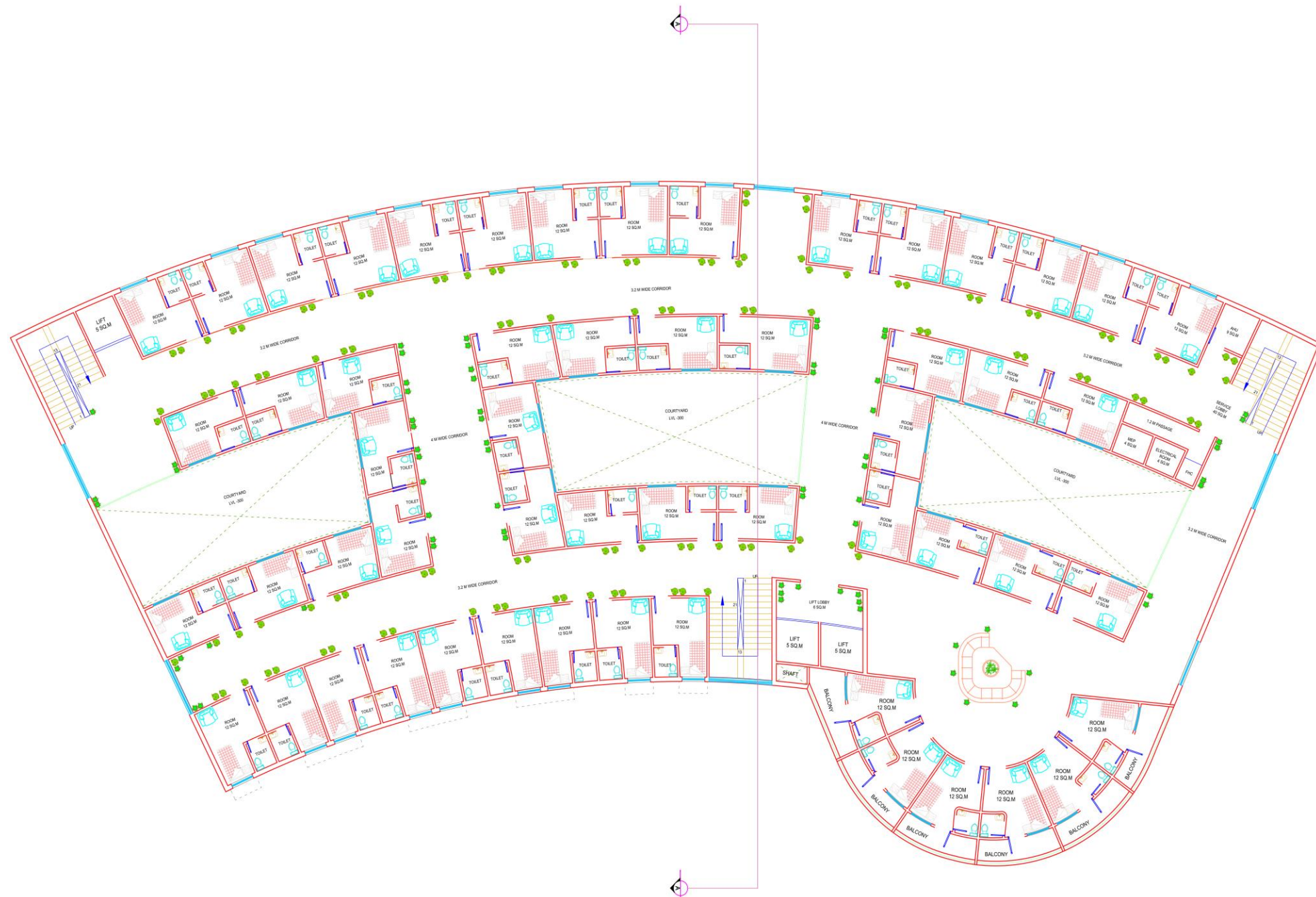
PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101052  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN







SECOND FLOOR

# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.

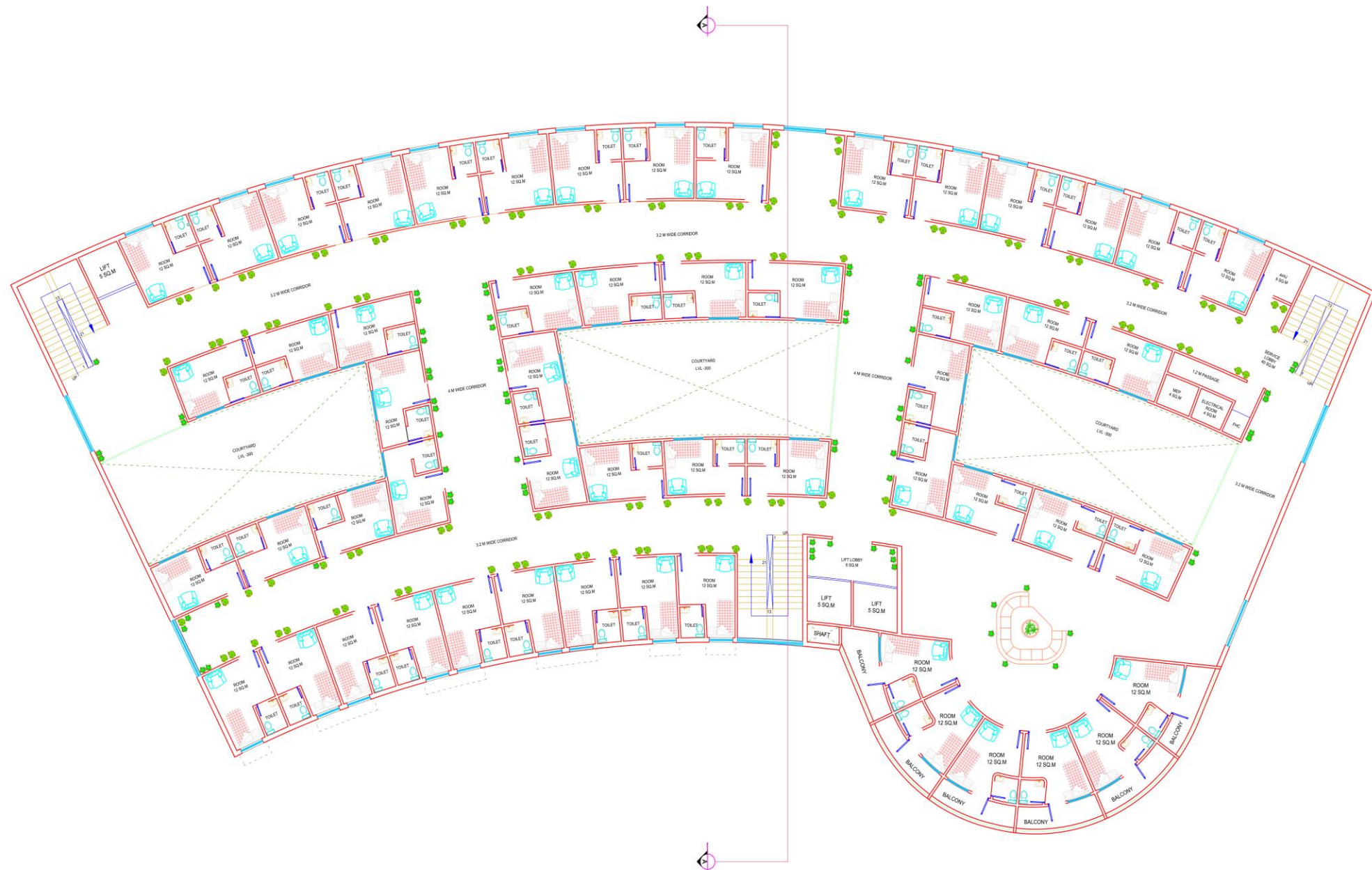


PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101052  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN





THIRD FLOOR

# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.



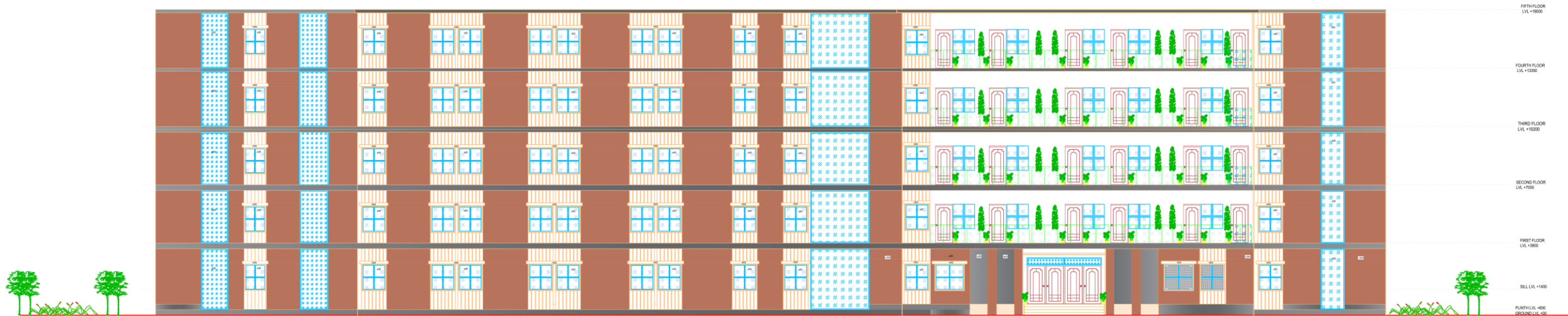
PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101052  
BABU BANARASI DAS LKO

DATE -15-05-2020

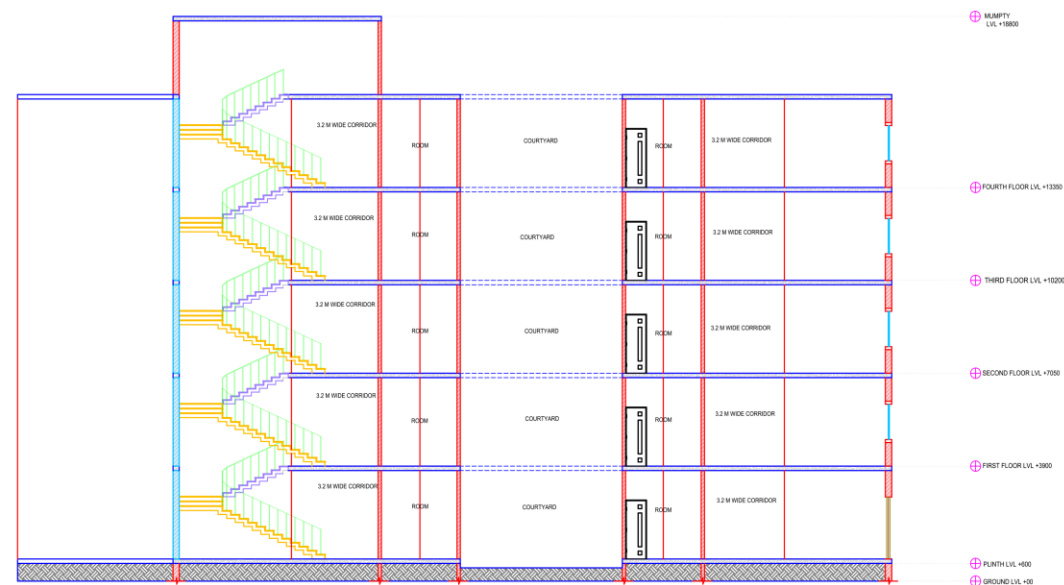
SIGN







FRONT ELEVATION



SECTION AA'

# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.



PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101052  
BABU BANARASI DAS LKO

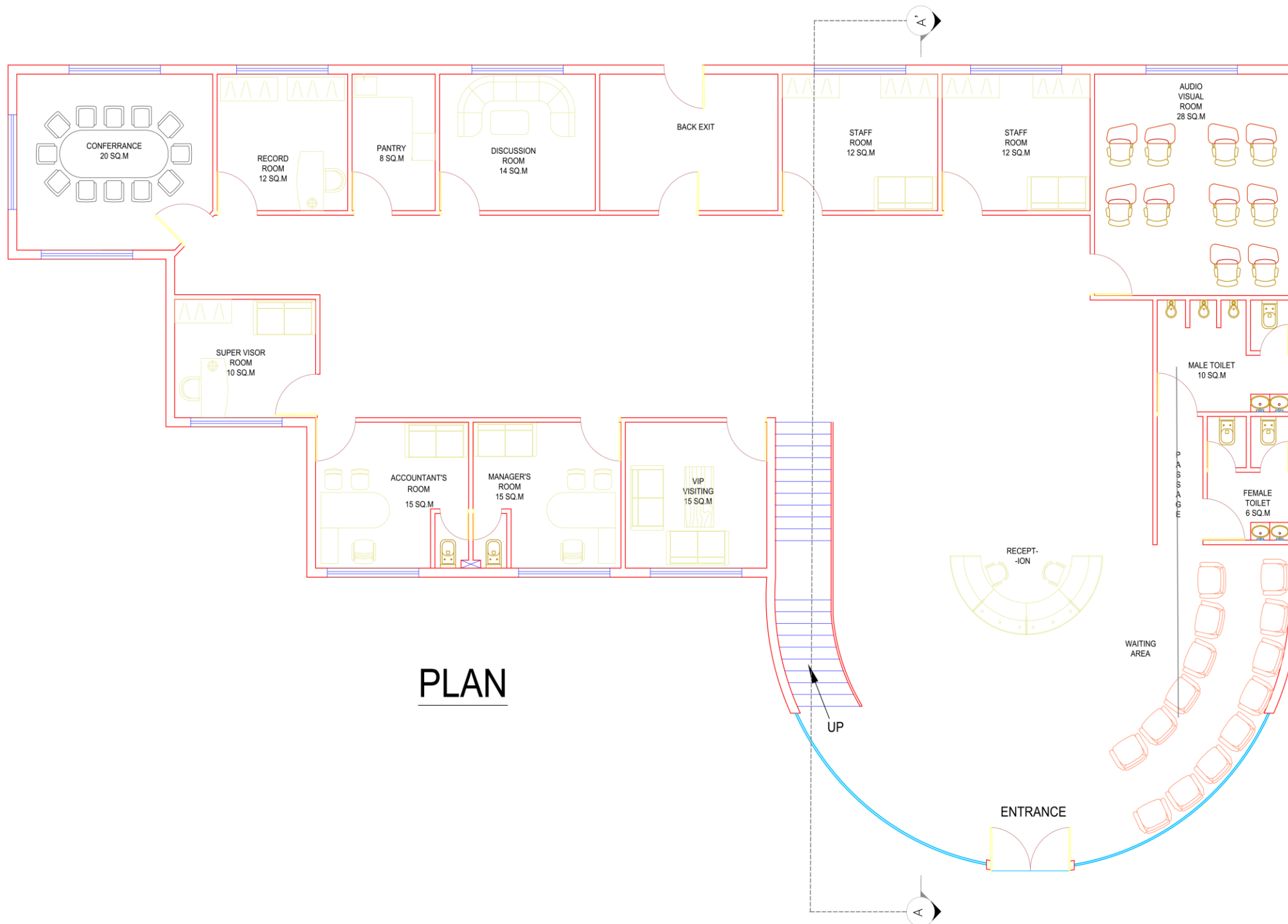
DATE -15-05-2020

SIGN



**ADMINISTRATION**





PLAN

# MENTAL HEALTH DEVELOPMENT CENTRE

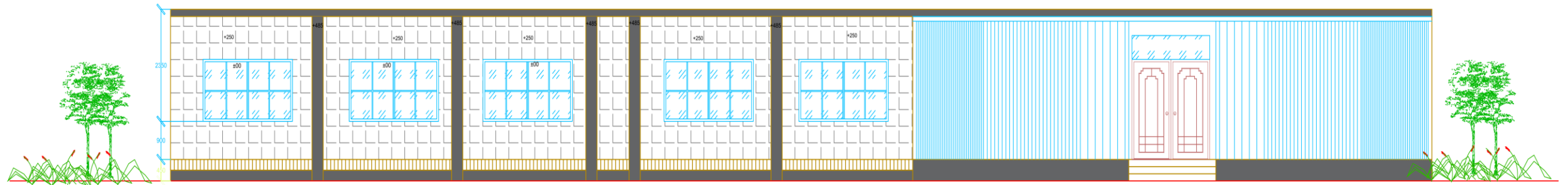
SHEET NO.

PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO

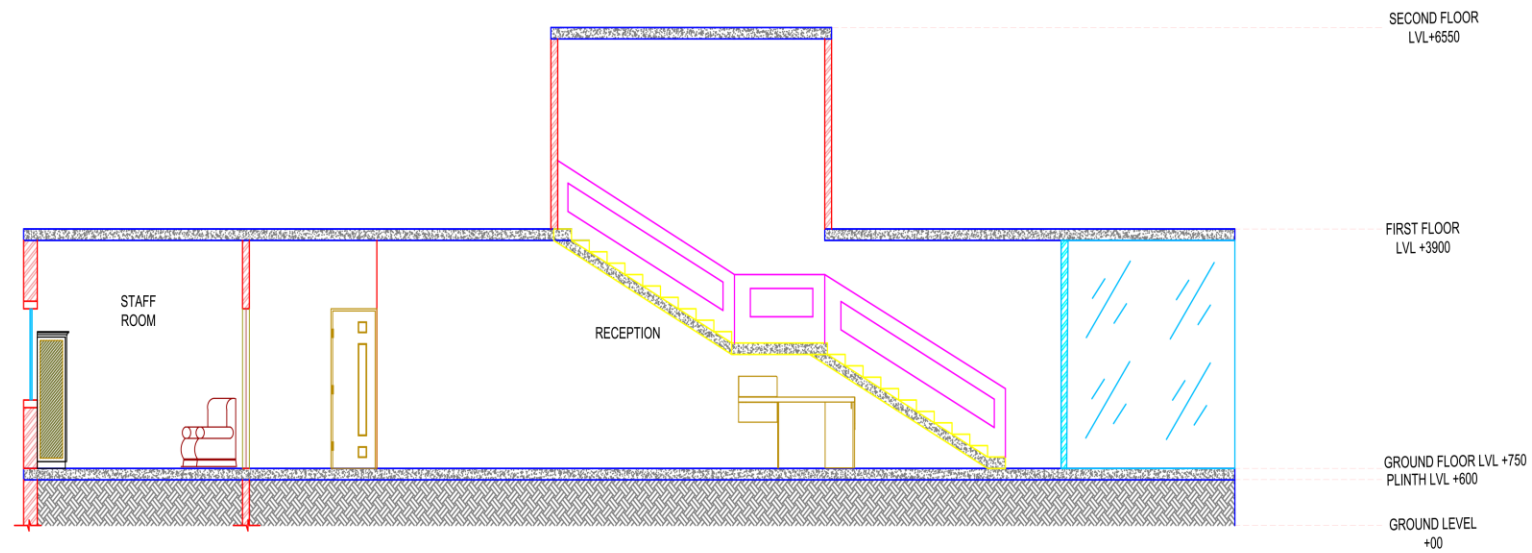
DATE -15-05-2020

SIGN





FRONT ELEVATION



SECTION AA'

MENTAL HEALTH DEVELOPMENT CENTRE

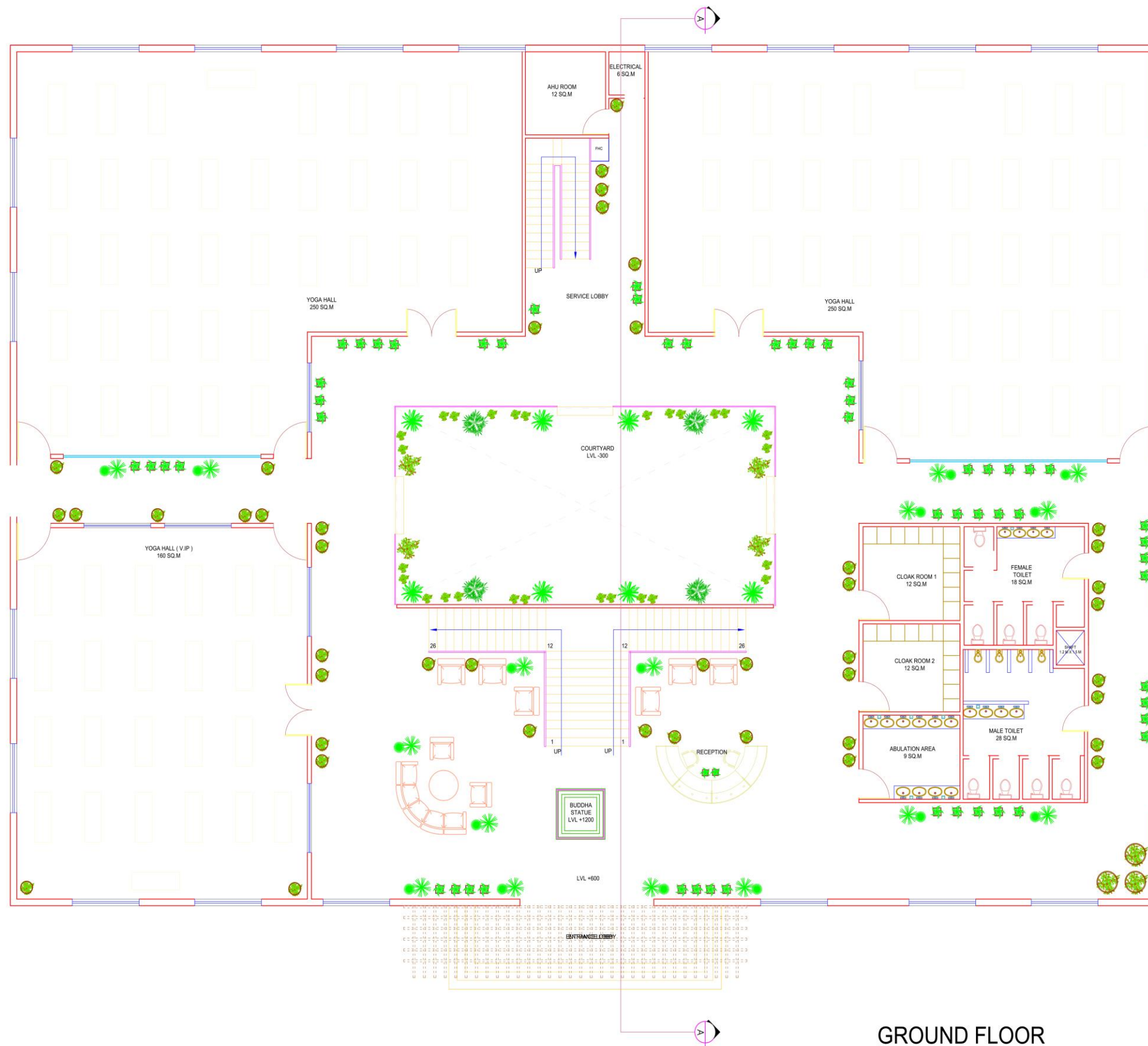
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SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO

SHEET NO.

DATE -15-05-2020

SIGN





GROUND FLOOR

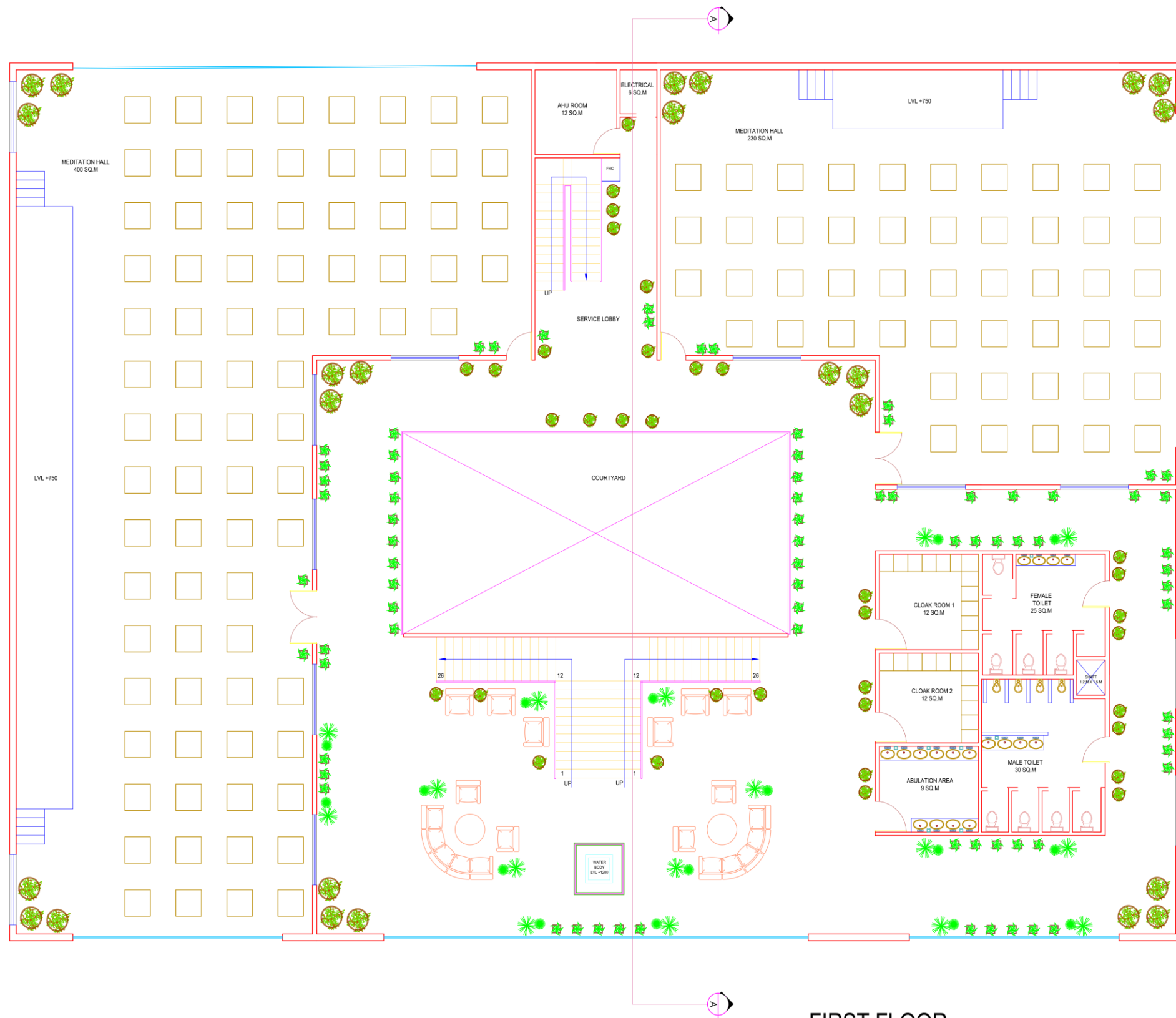
# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.

PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO  
DATE -15-05-2020



SIGN



FIRST FLOOR

# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.

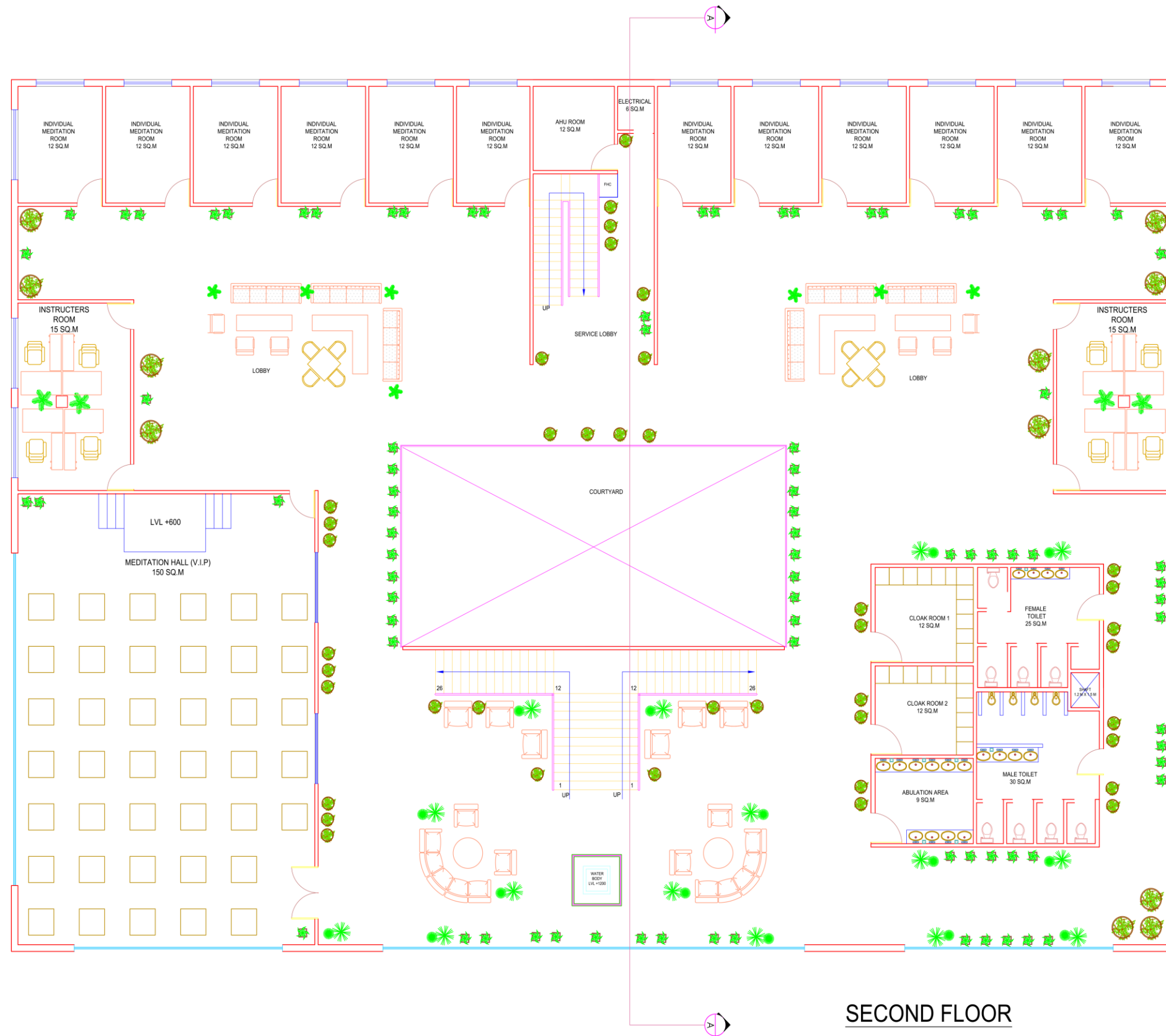
PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN





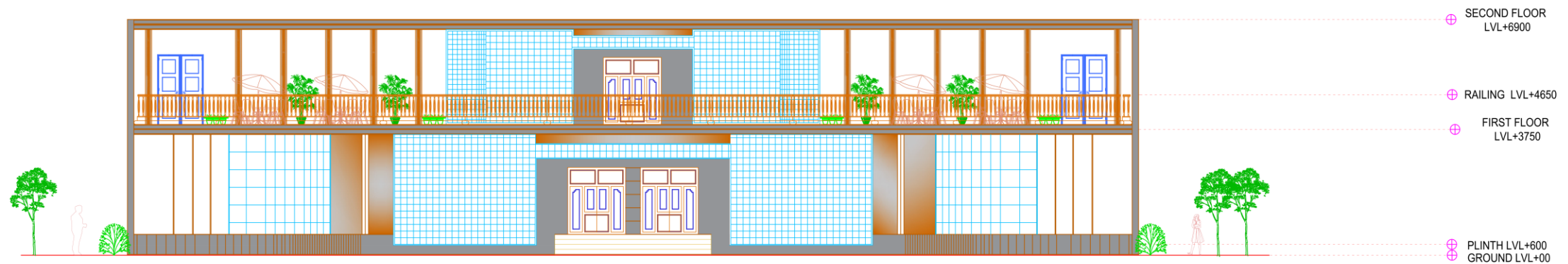


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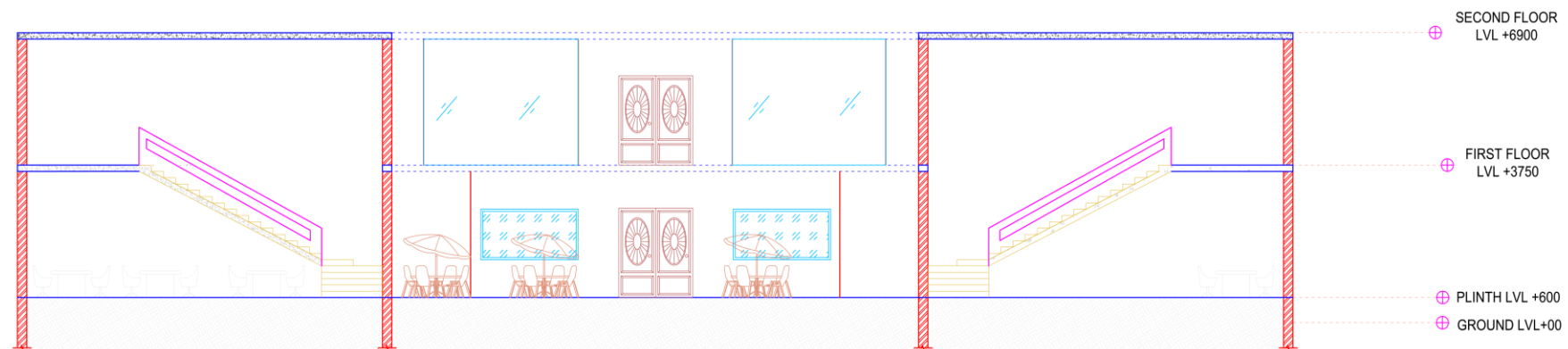
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PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO  
DATE -15-05-2020  
SIGN





FRONT ELEVATION



SECTION AT AA'

MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.



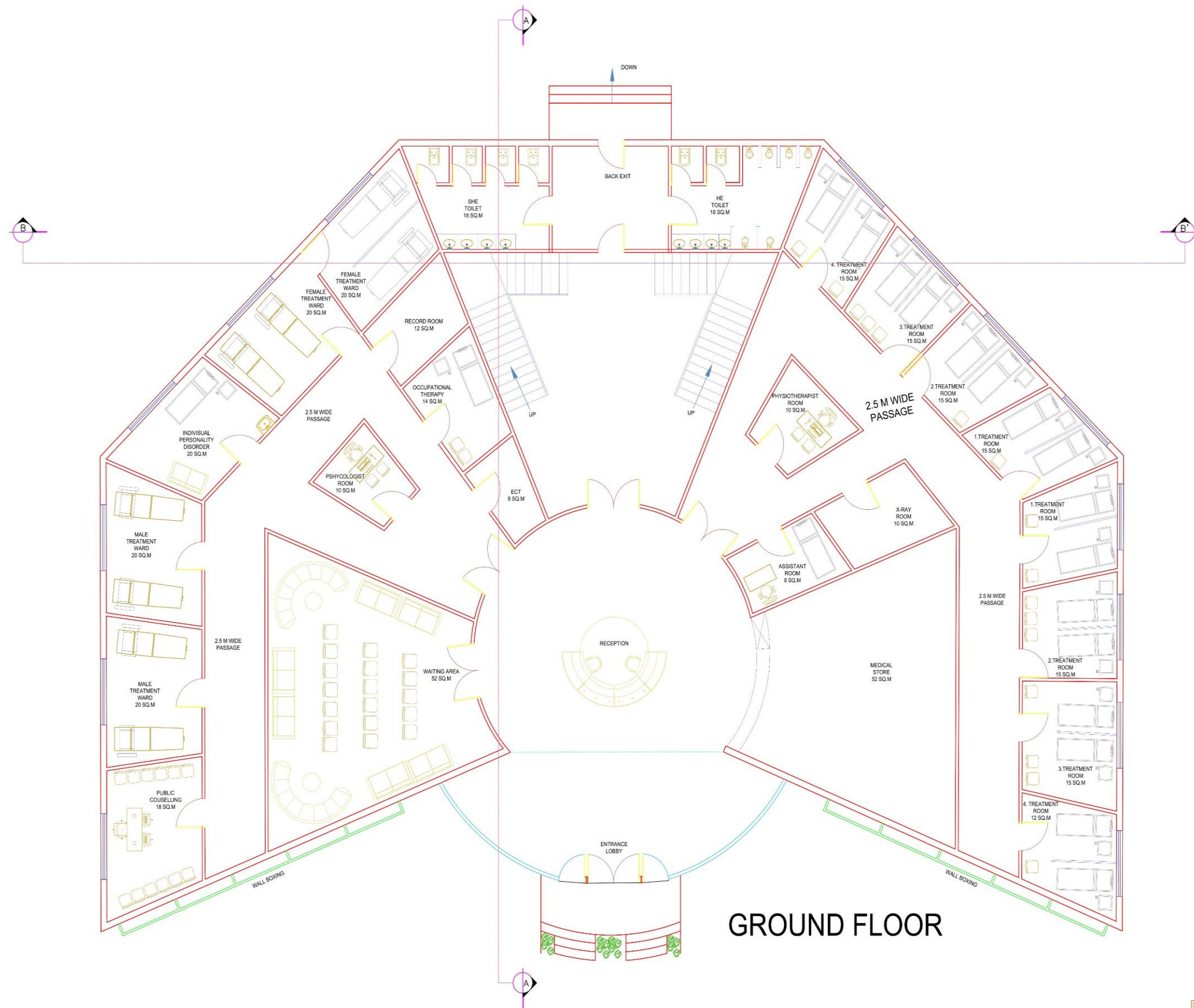
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SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101052  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN



**HEALTH CARE**



GROUND FLOOR

# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.

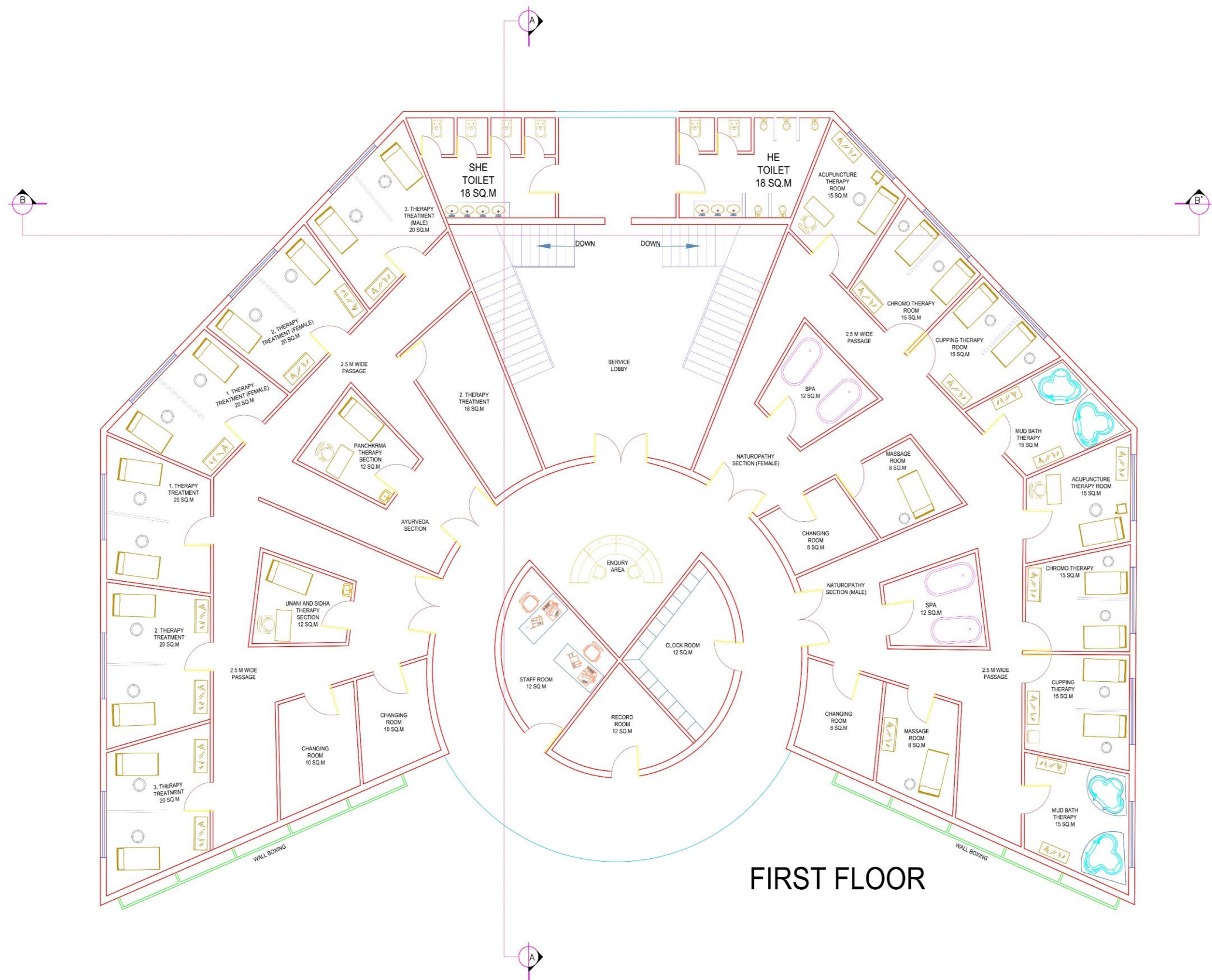
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SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN







FIRST FLOOR

# MENTAL HEALTH DEVELOPMENT CENTRE

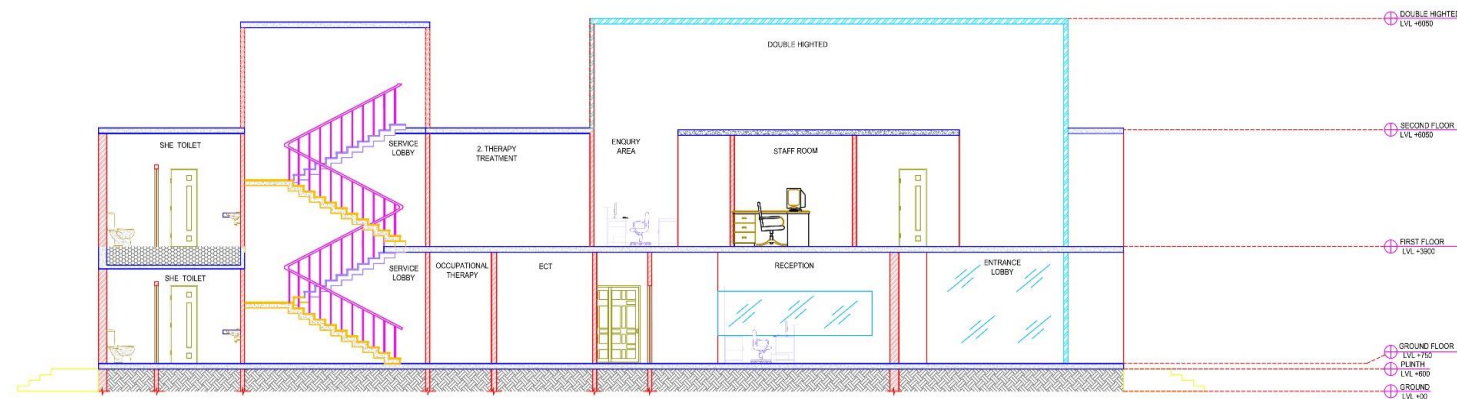
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PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
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BABU BANARASI DAS LKO

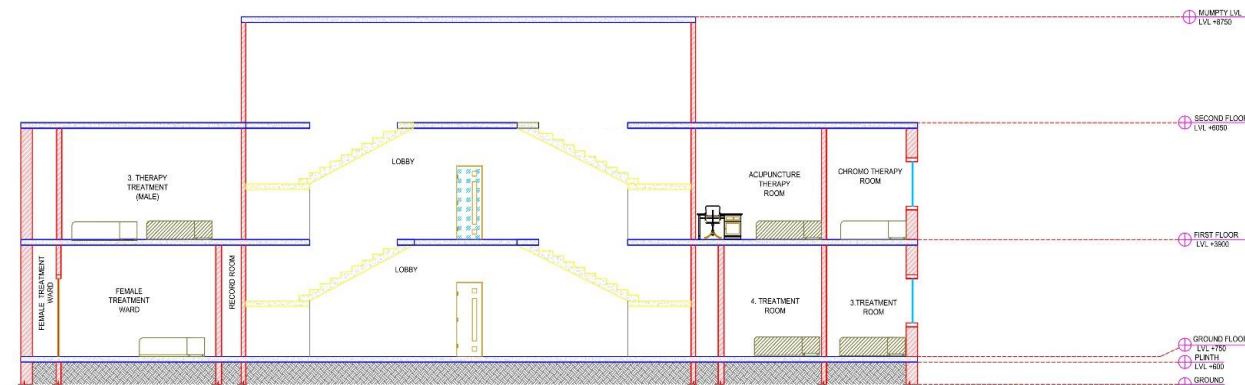
DATE -15-05-2020

SIGN

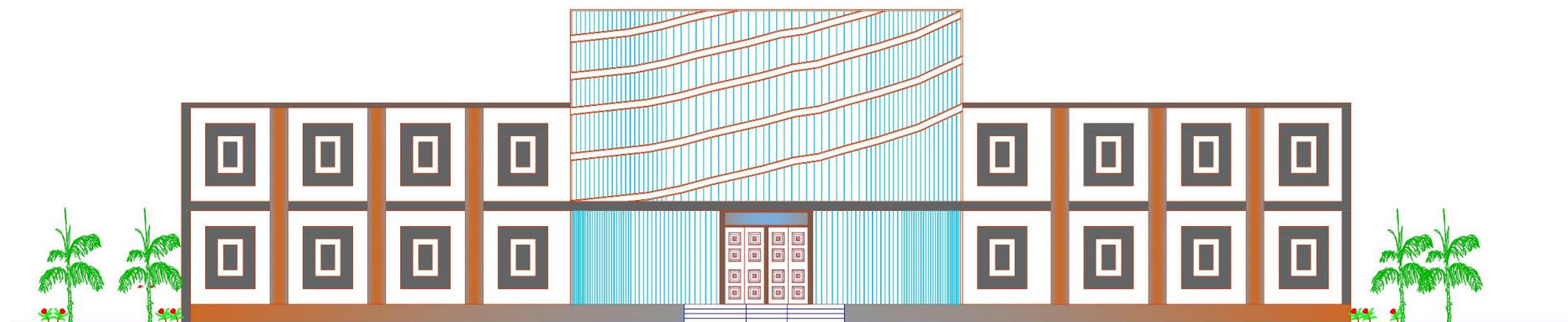




SECTION AA'



SECTION BB'



FRONT ELEVATION

# MENTAL HEALTH DEVELOPMENT CENTRE

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PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO

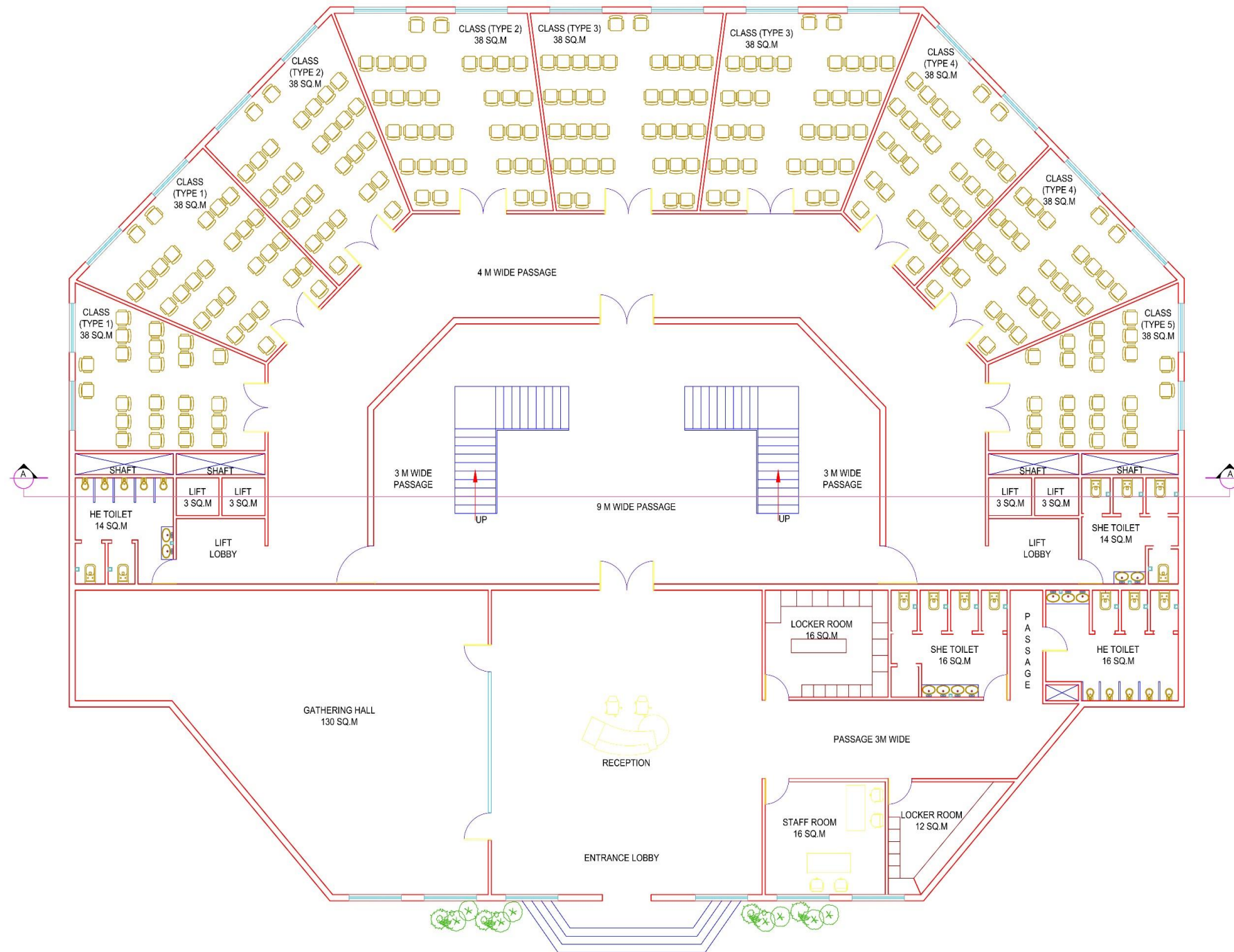
DATE -15-05-2020

SIGN



**MENTAL**

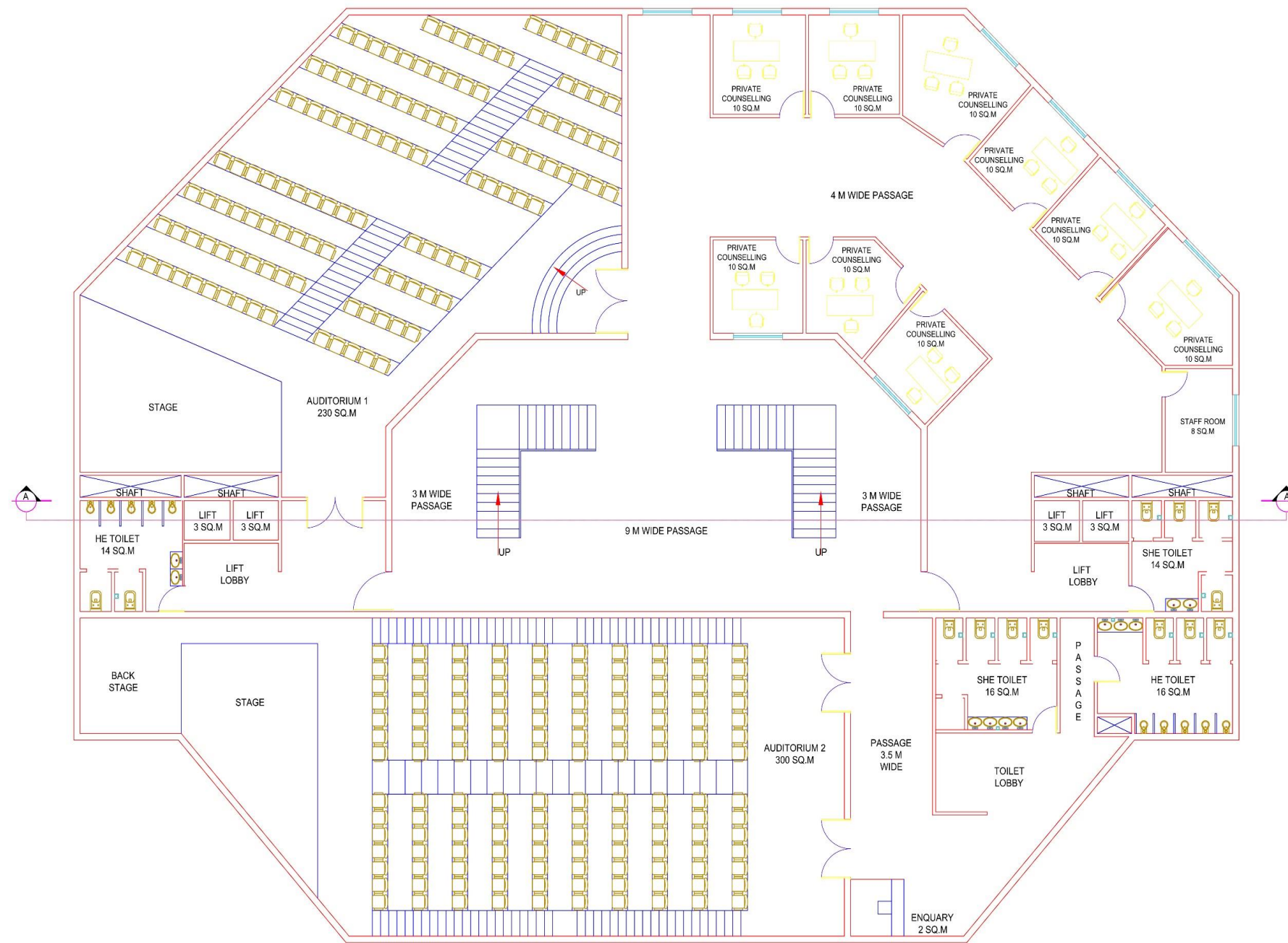




GROUND FLOOR

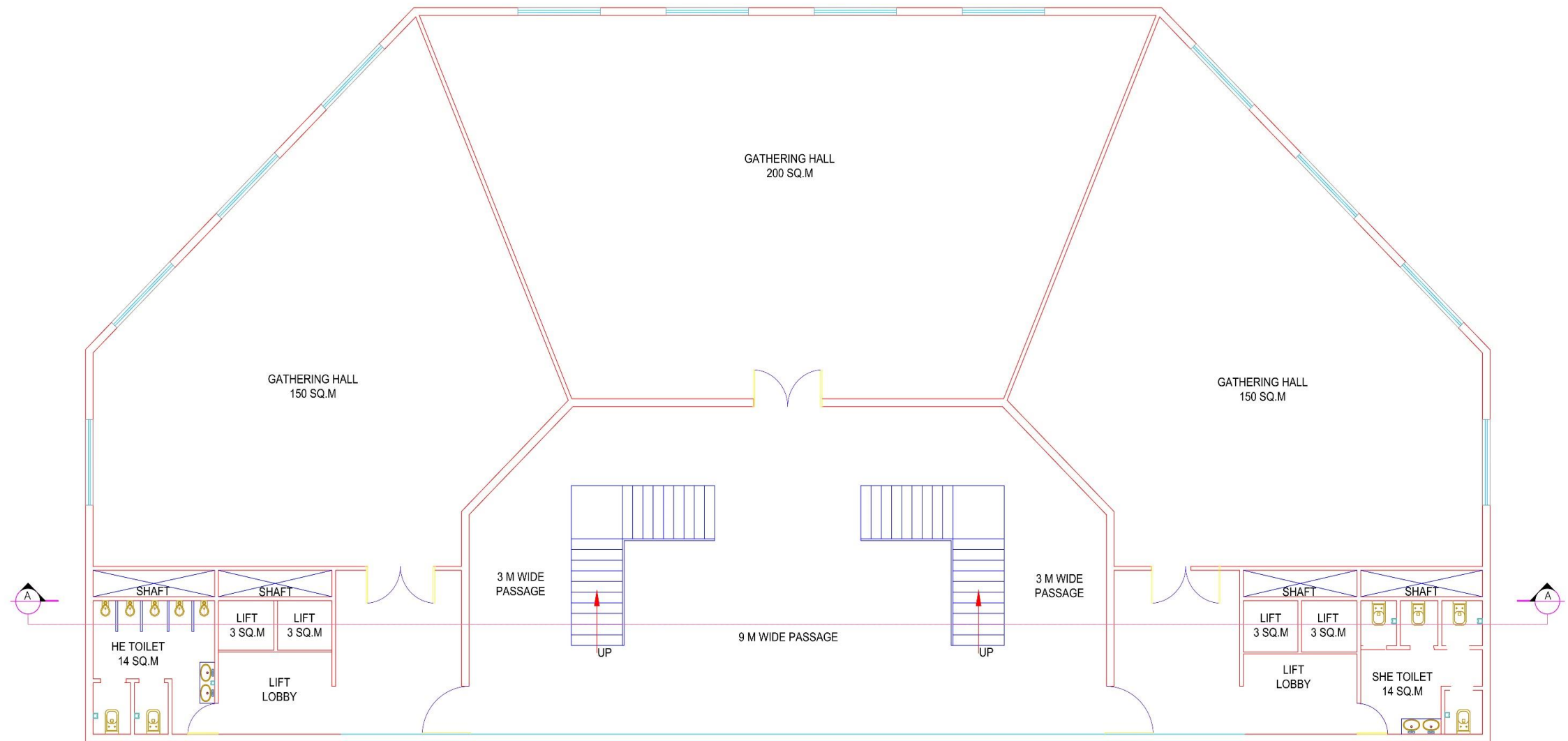
# MENTAL HEALTH DEVELOPMENT CENTRE





FIRST FLOOR

# MENTAL HEALTH DEVELOPMENT CENTRE



## SECOND FLOOR

MENTAL HEALTH DEVELOPMENT CENTRE

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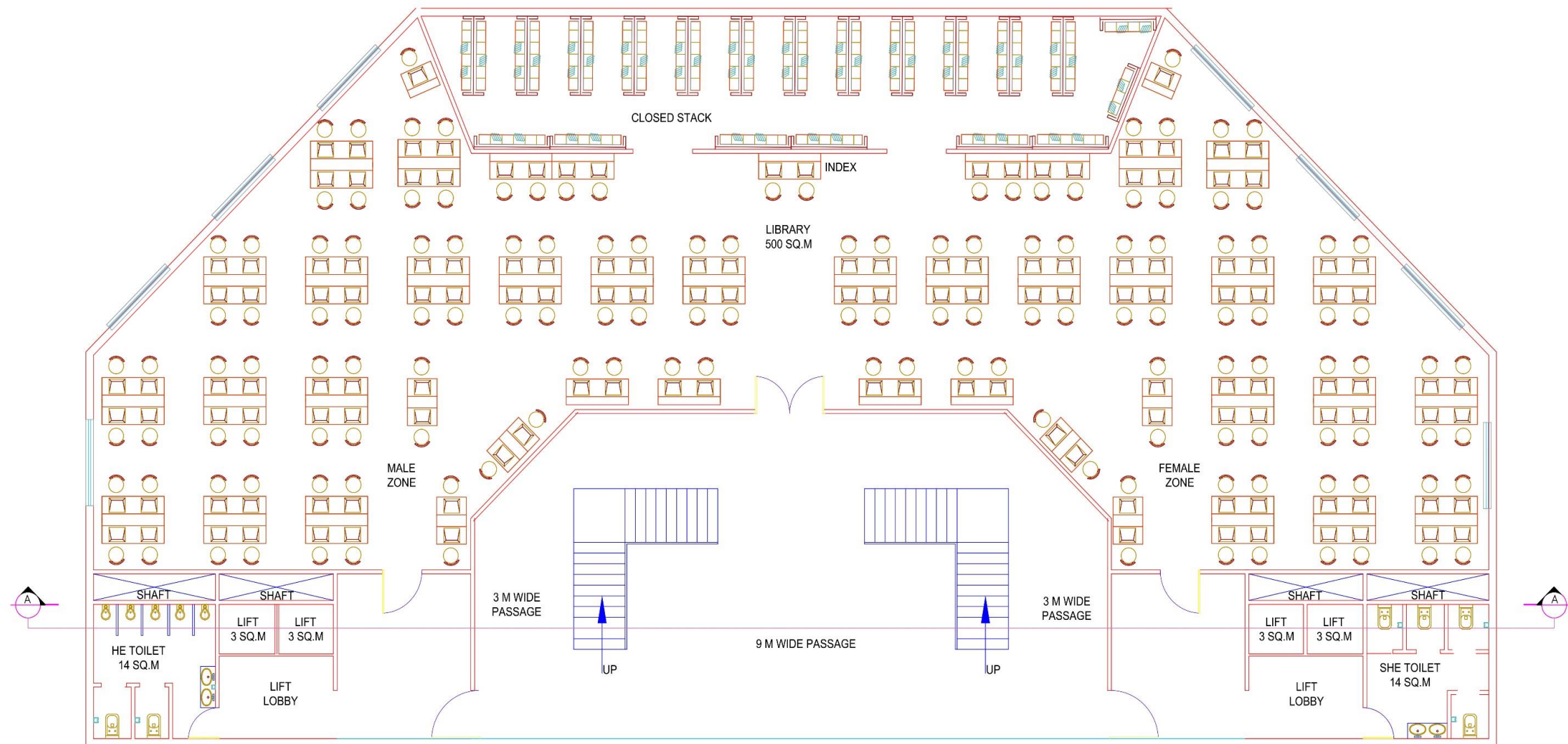


PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN

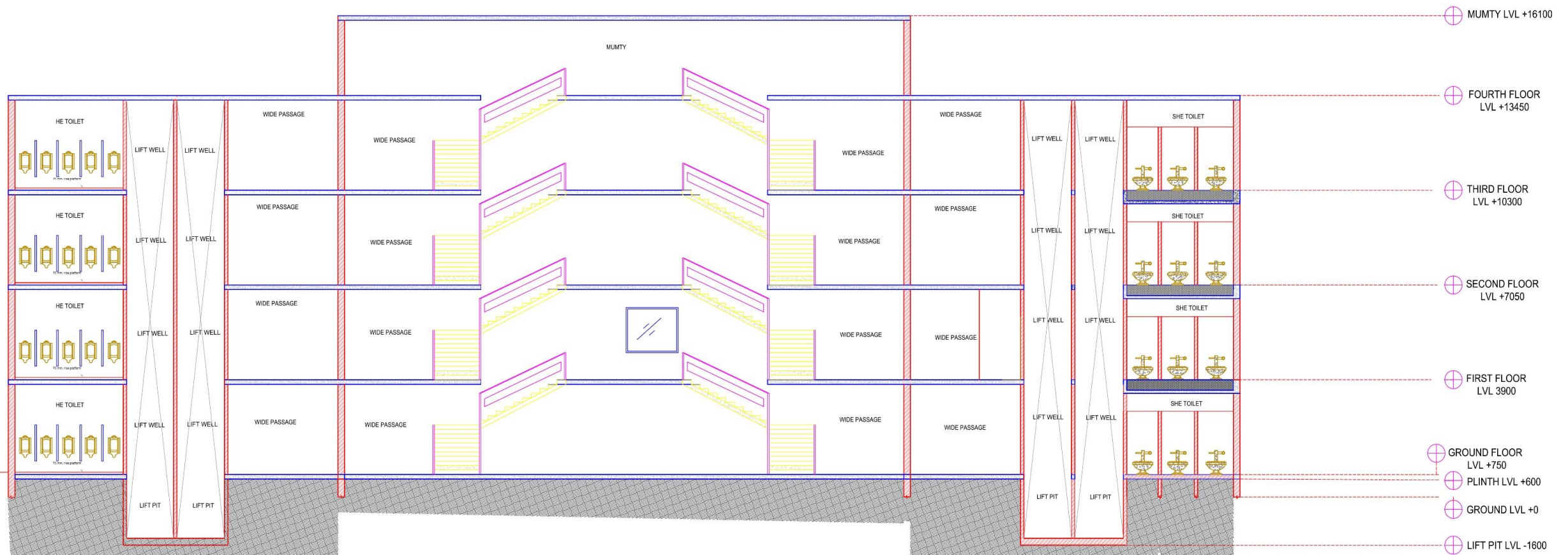




## THIRD FLOOR



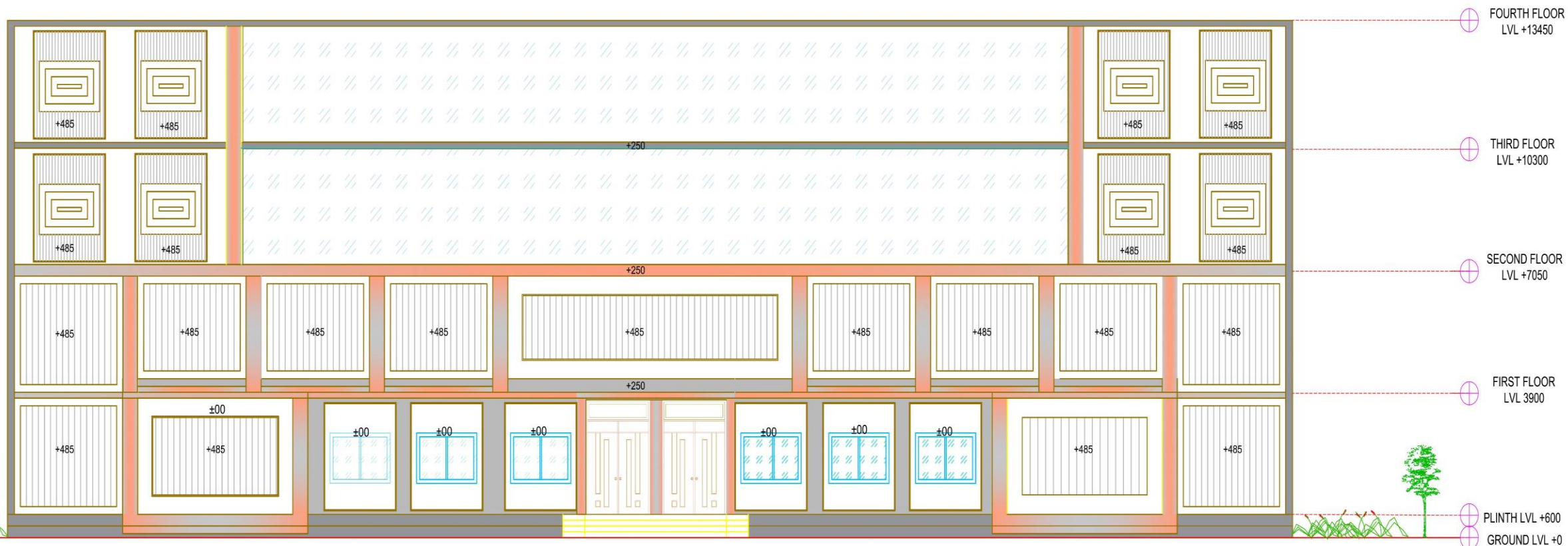




SECTION AT AA'







# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.



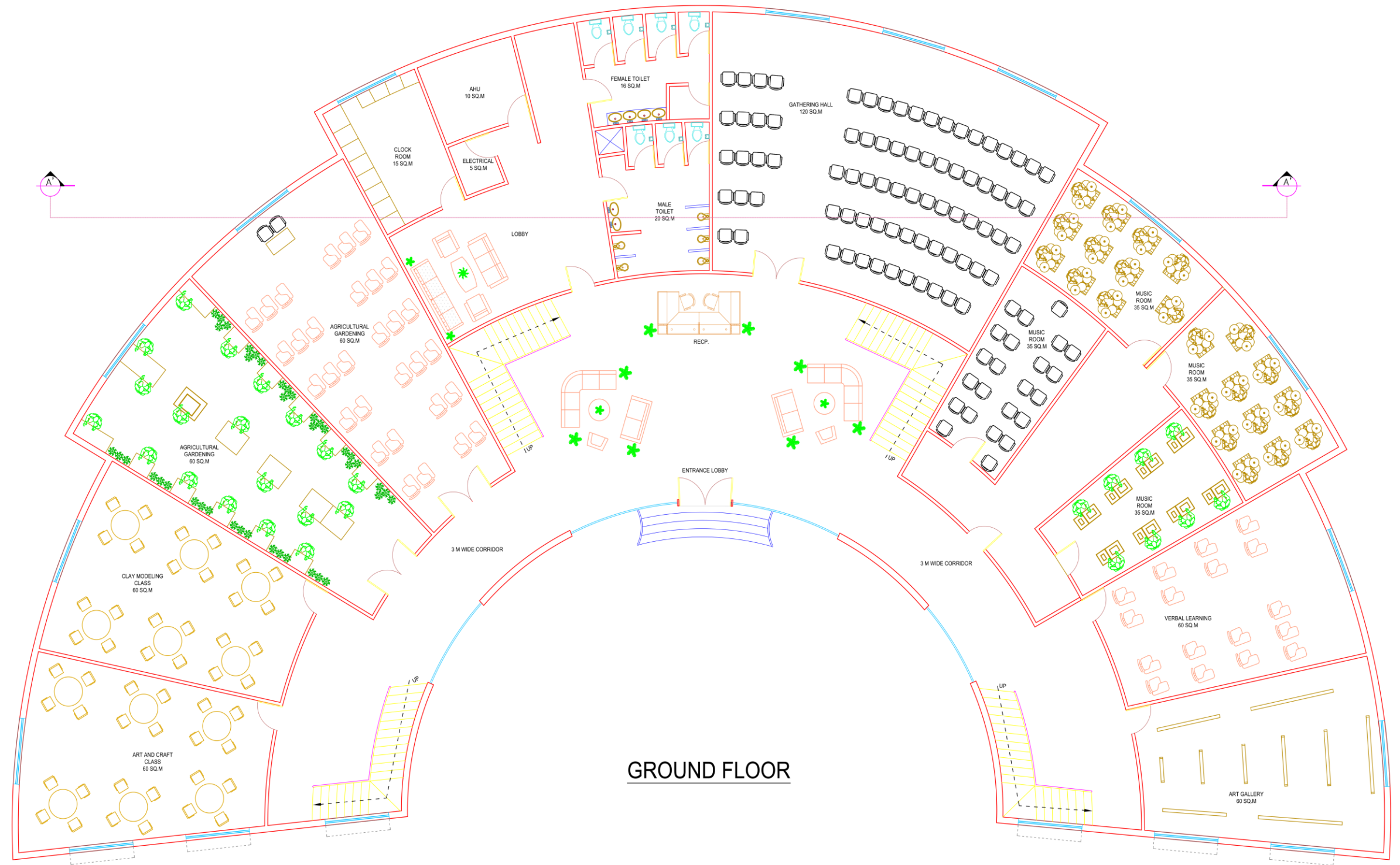
PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN



**SKILL DEVELOPMENT**



# MENTAL HEALTH DEVELOPMENT CENTRE

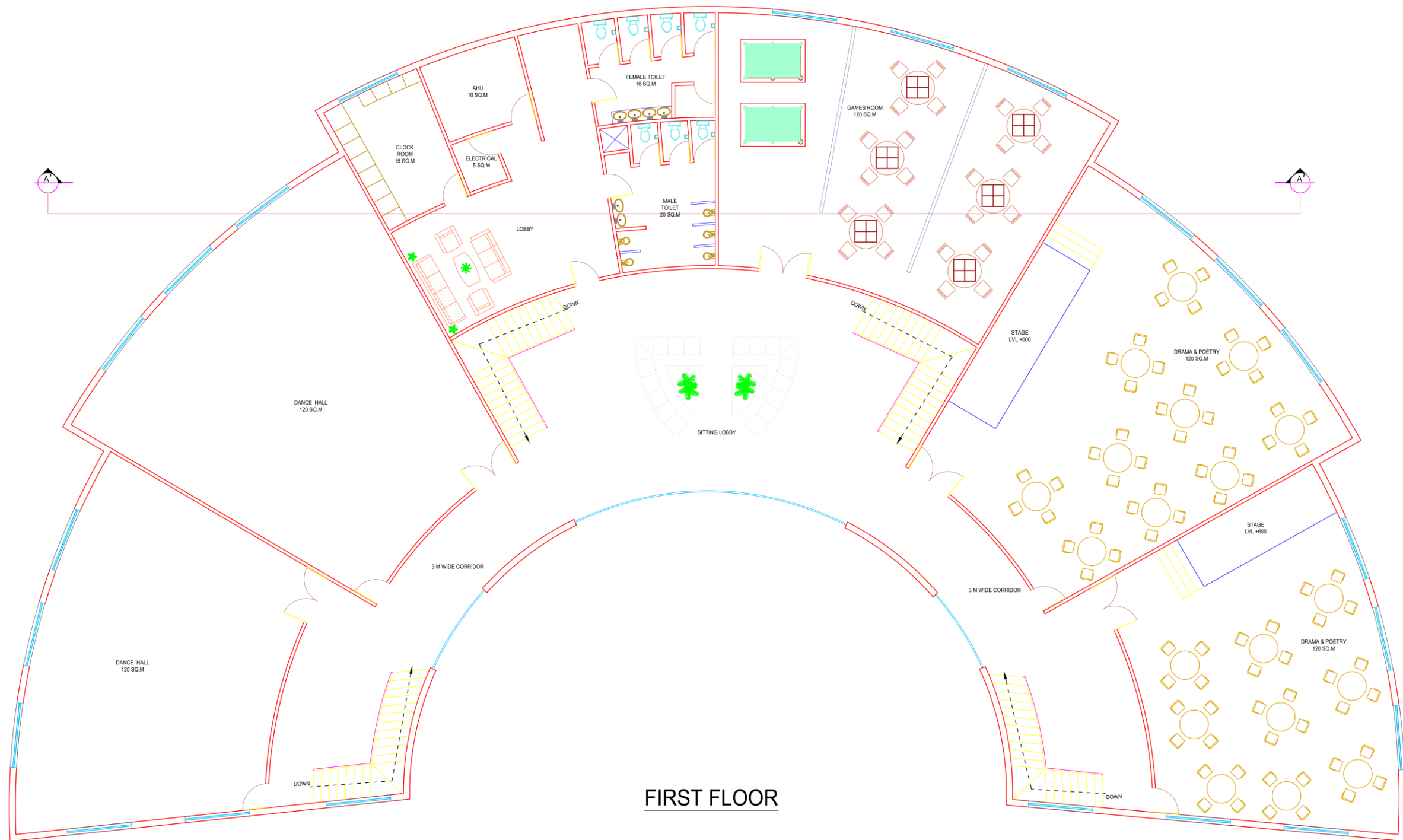
SHEET NO.

PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101052  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN





FIRST FLOOR

# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.



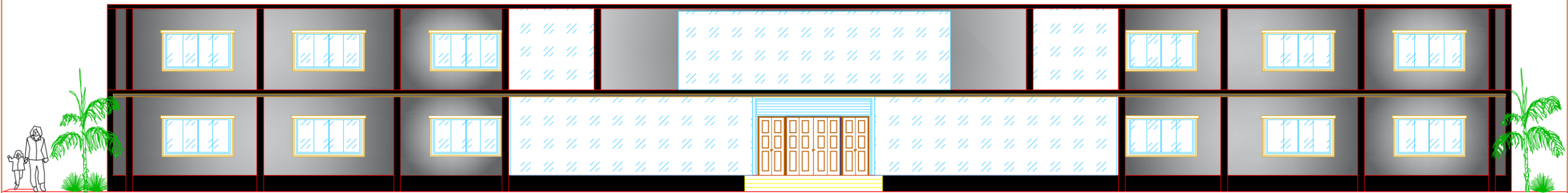
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SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101052  
BABU BANARASI DAS LKO

DATE -15-05-2020

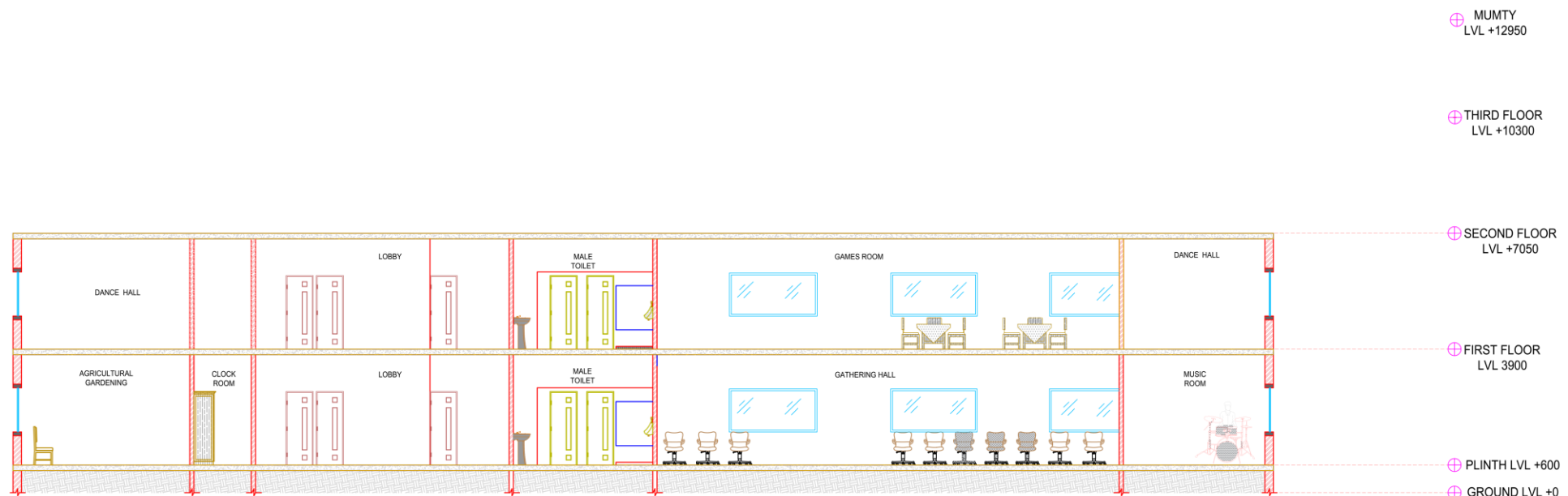
SIGN







FRONT ELEVATION



SECTION AT AA'

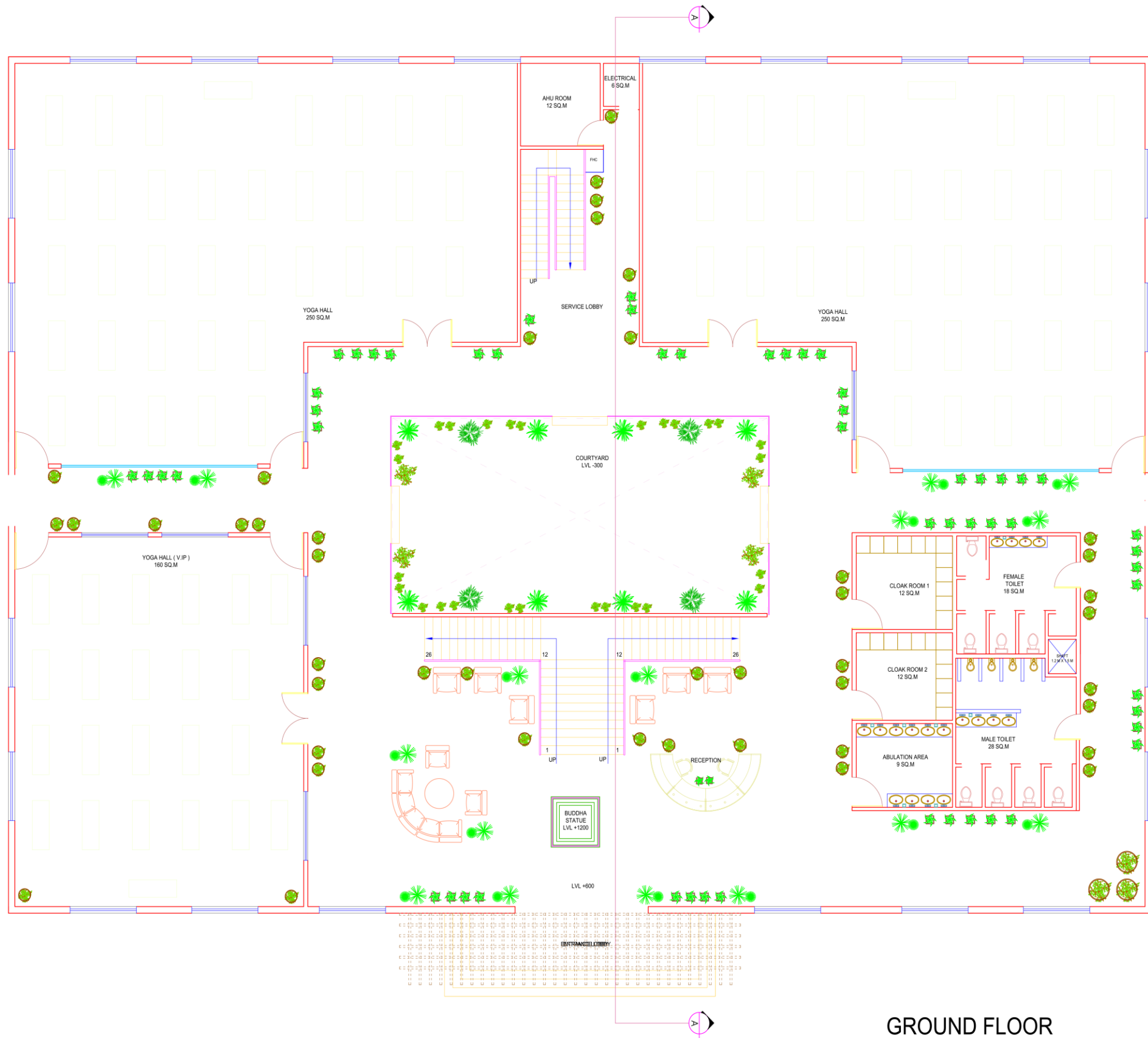
# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.

PRAGYA YADAV  
 SECTION-AR5-2  
 B.ARCH  
 ROLL NO-1150101052  
 BABU BANARASI DAS LKO

DATE -15-05-2020  
 SIGN

**MEDITATION**



GROUND FLOOR

# MENTAL HEALTH DEVELOPMENT CENTRE

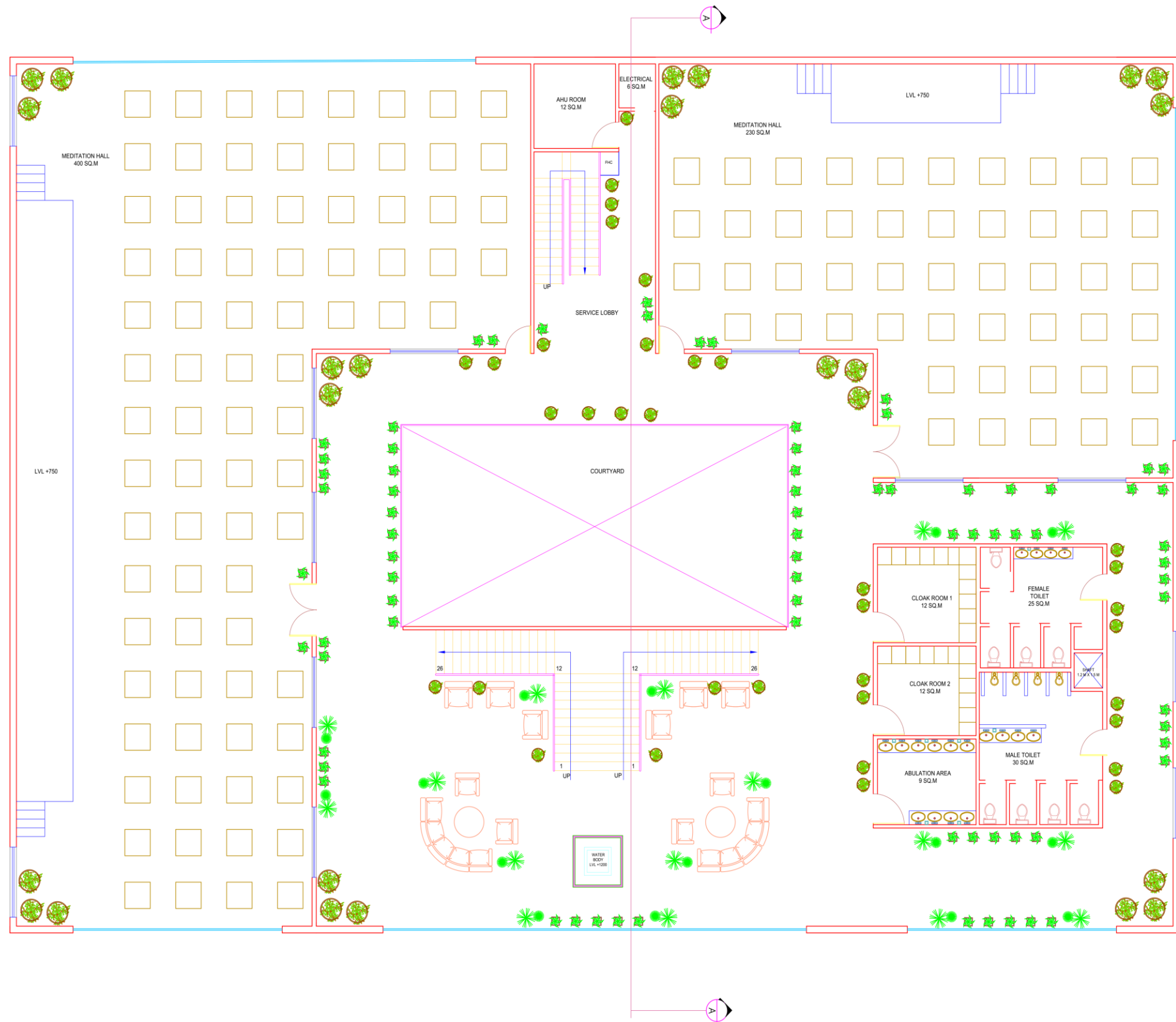
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PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN





FIRST FLOOR

# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.



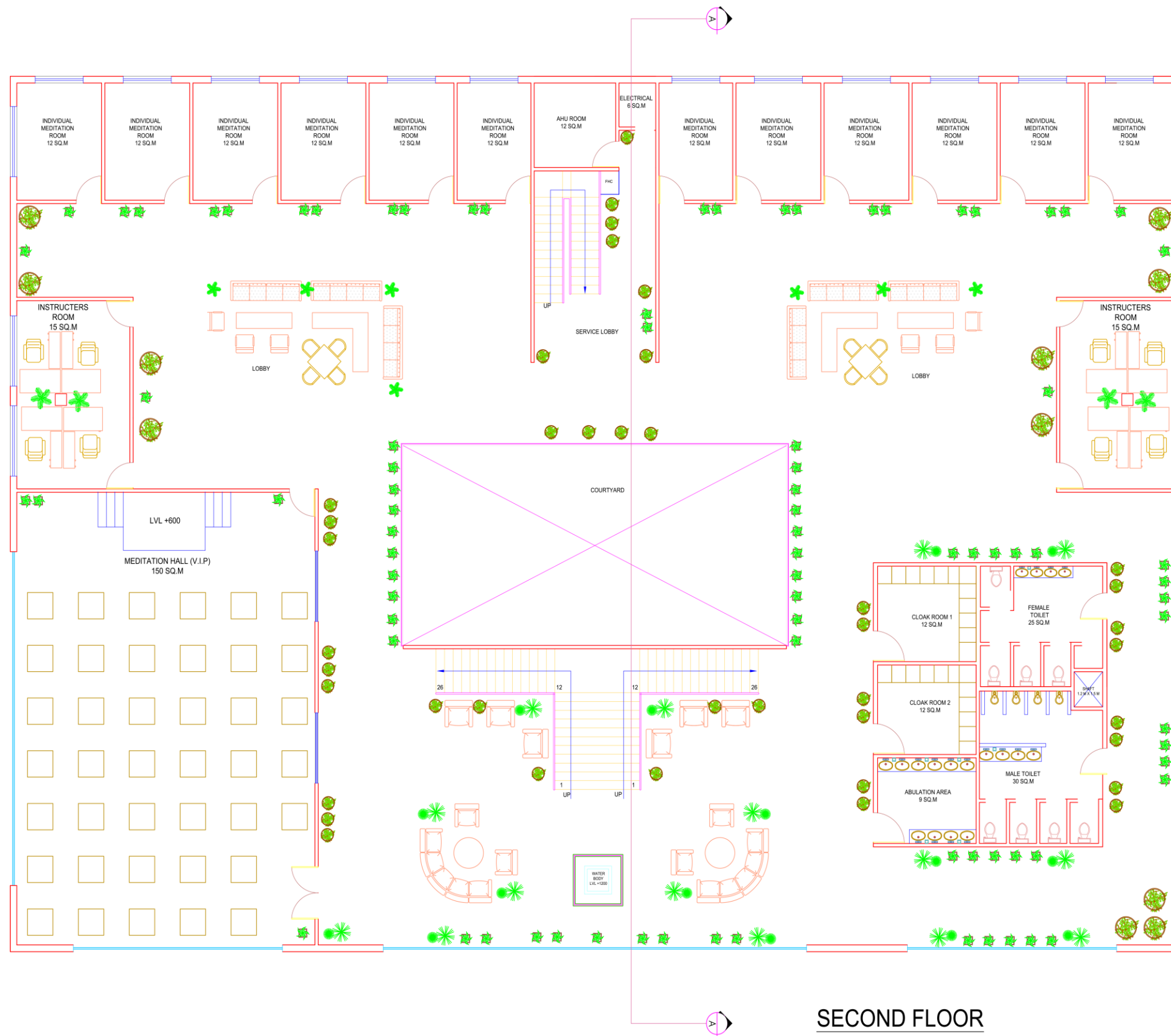
PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN







SECOND FLOOR

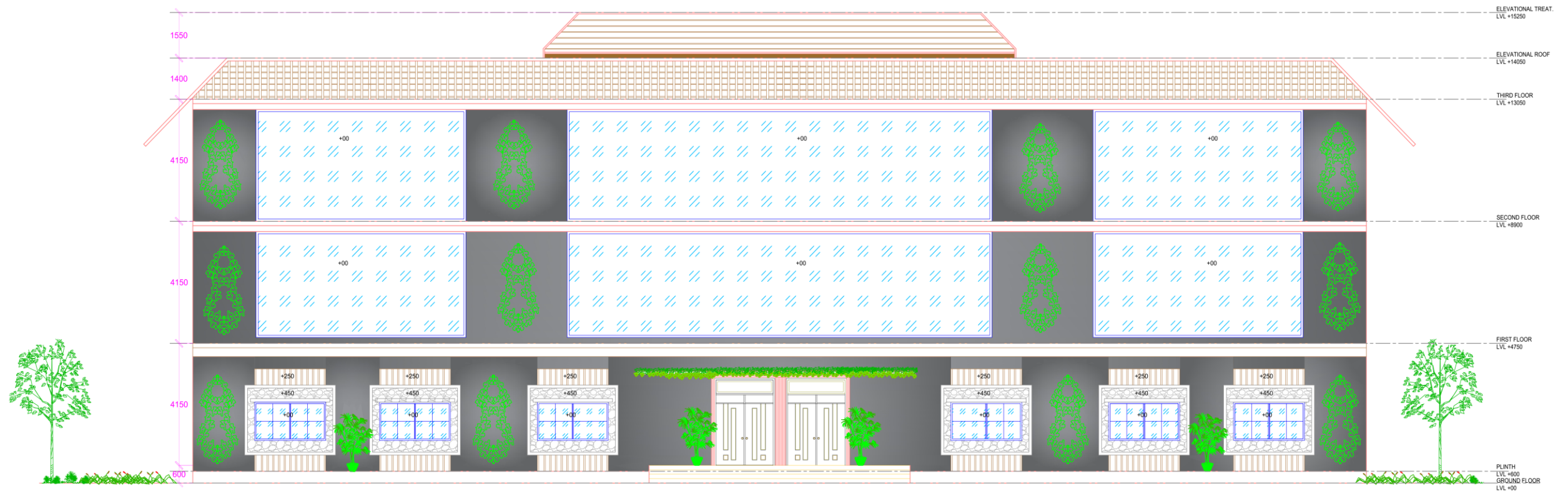
# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.

PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO  
DATE -15-05-2020



SIGN



FRONT ELEVATION

MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.

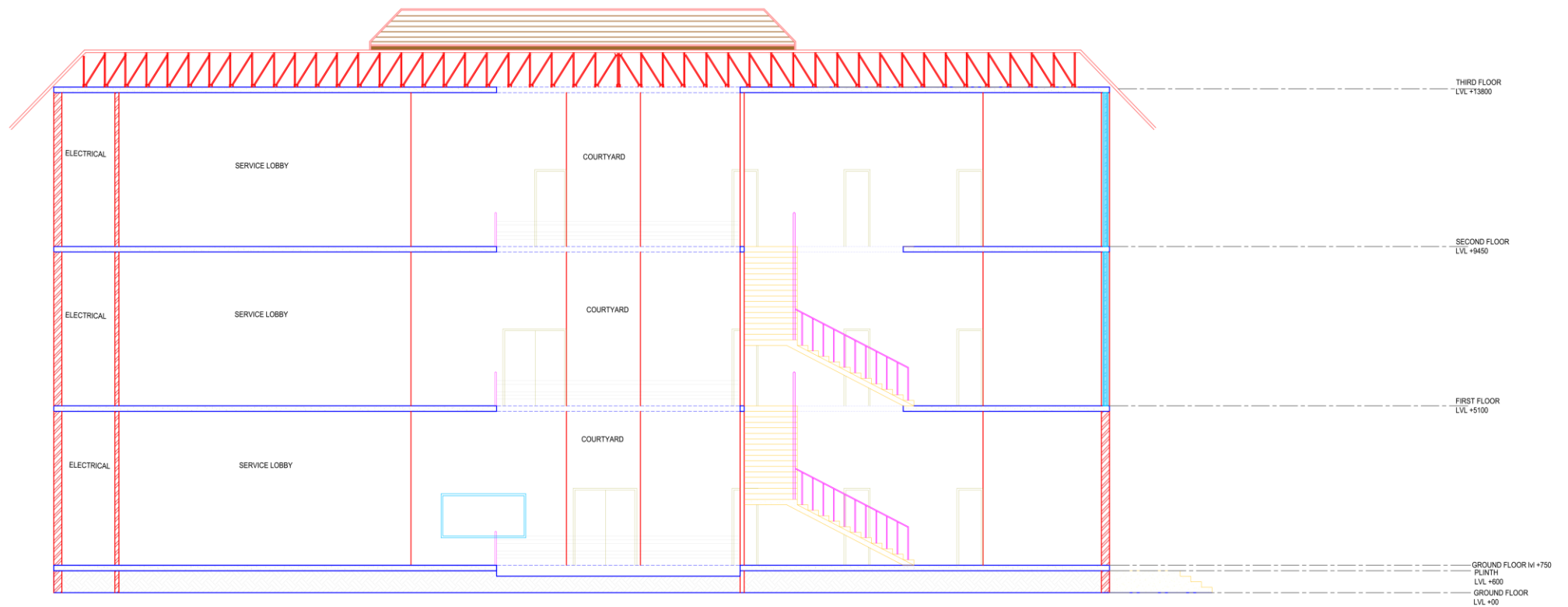


PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN





SECTION AA'

# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.



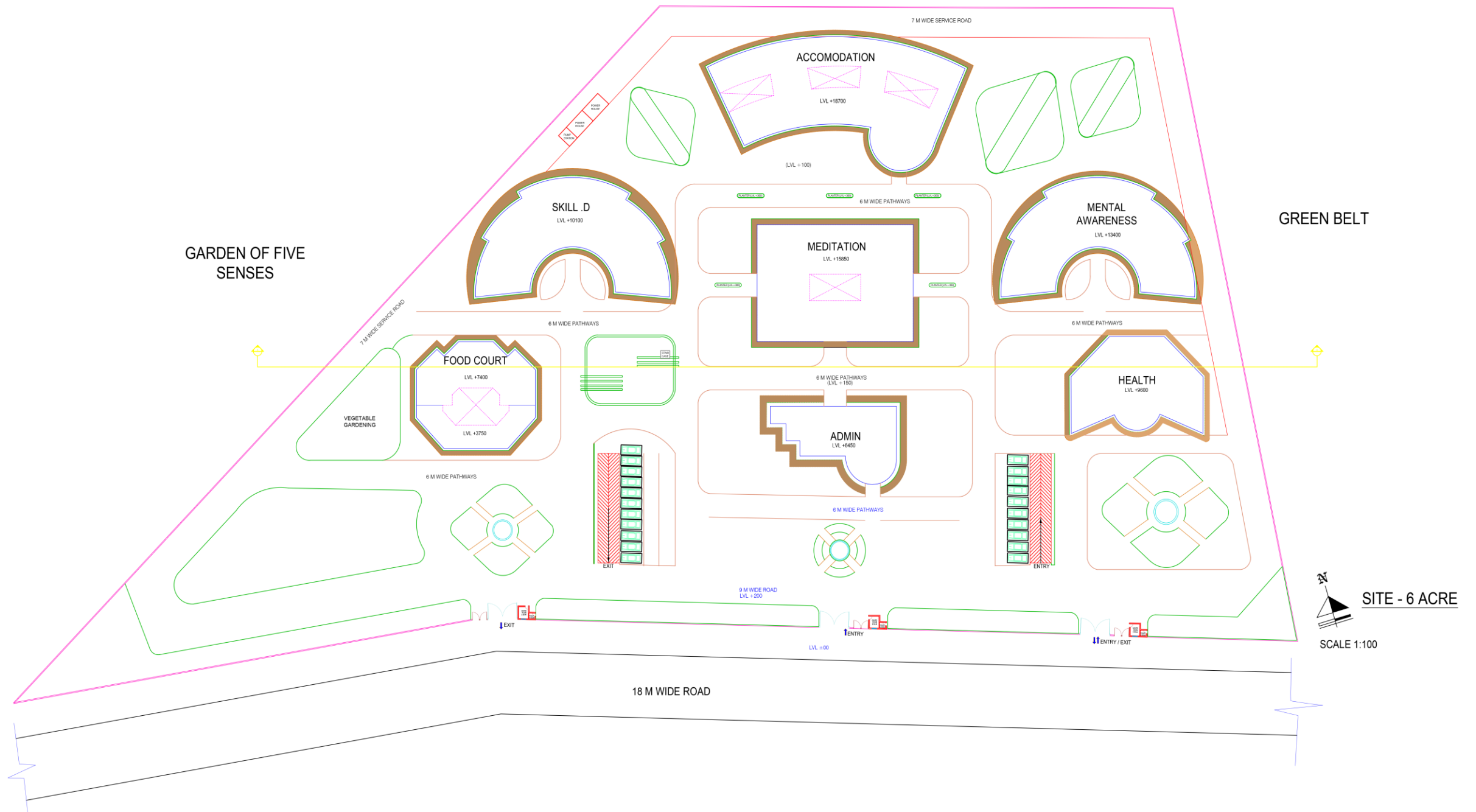
PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101015  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN



GREEN BELT



# SITE PLAN





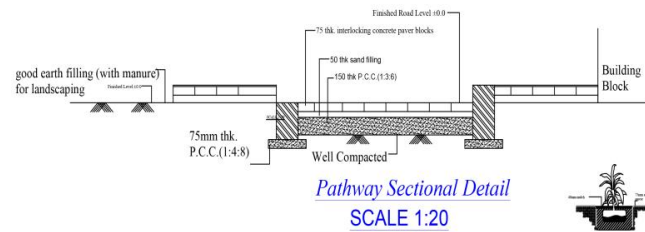
# SITE PLAN AND SITE SECTION

# 1. ELECTIVE (LANDSCAPE)

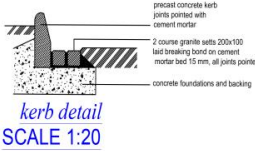


LANDSCAPE

SYMBOL	NAME	TYPE	HEIGHT	FOLIAGE	DESCRIPTION	SPECIAL FEATURE
	SARAKKA	EVERGREEN	10 - 12 M	1.5-2.5 M	BIG GREEN LEAVES	SMALL EVERGREEN TREE
	ROYAL PALM	EVERGREEN	10-20 M	2-3 M	GRAND AVENUE EFFECT	REGIMENTAL EFFECT
	GOLDEN DURLANTA	HEDGE	1 M	0.5 M	DWARF SMALL LEAVES	ORNAMENTAL HEDGE
	GULMOHAR TREE	EVERGREEN	10 - 15 M	2-3 M	RED FLAMBOYANT FLOWERS	ORNAMENTAL TREE
	PRIDE OF INDIA	FLOWERING	5-10 M	2-3 M	BLUE FLOWERS	GROUND COVER
	CHAMPANULA	FLOWERING	10 CM	30 CM	PURPLE FLOWERS	GROUND COVER
	GURHAL	HIBISCUS	5 M	3 M	RED FLOWERS	REGIMENTAL EFFECT
	CALENDULA	ENGLISH MARIGOLD	10 M	5 M	PURPLE FLOWERS	GROUND COVER
	MEDICINAL PLANT					
	carpet grass					GROUND COVER
	interlocking bricks	pavement				
	WATER BODY					

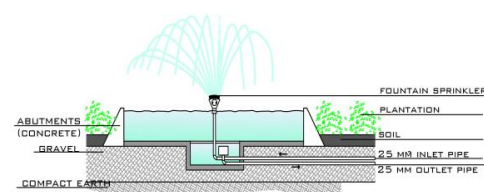


Pathway Sectional Detail  
SCALE 1:20

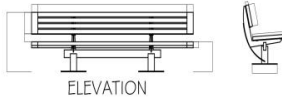


kerb detail  
SCALE 1:20

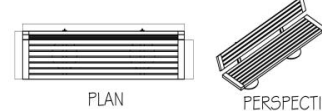
Section - Shrub Plantation



DETAIL OF FOUNTAIN



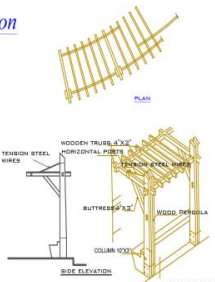
ELEVATION



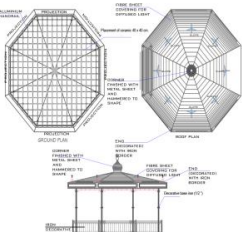
PLAN

PERSPECTIVE

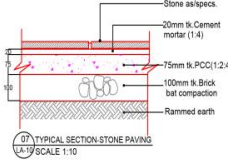
DETAIL OF SEAT



DETAIL OF PARGOLA



DETAIL AT GAZEBO



07 TYPICAL SECTION-STONE PAVING  
SCALE 1:10

MENTAL HEALTH DEVELOPMENT CENTRE

PRAGYA YADAV  
SECTION-AR5-2  
B.Arch

ROLL NO-1150101052  
BABU BANARASI DAS LKO

SHEET NO.










DATE -15-05-2020

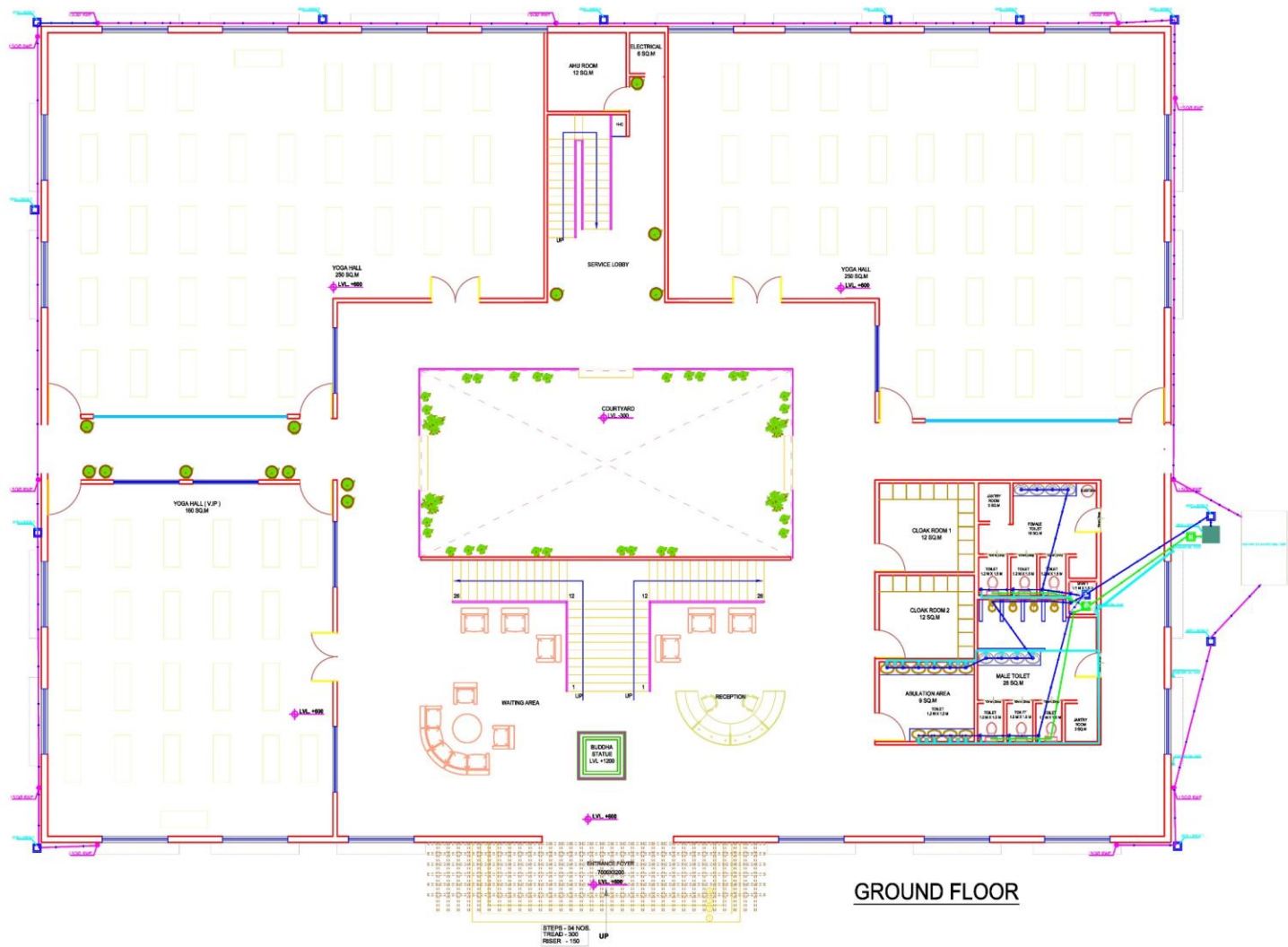
SIGN

# 2. ELECTIVE (PLUMBING)

## MEDITATION BLOCK PLUMBING

### LEGENDS


S.NO.	SYMBOL	DESCRIPTION
1.		P.V.C. PIPE FOR WATER SUPPLY
2.		RAIN WATER PIPE
3.		P.V.C. SOIL AND VENT PIPE
4.		P.V.C. WASTE AND VENT PIPE
5.		G.T. GULLY TRAP
6.		I.C. INSPECTION CHAMBER
7.		M.H. MAN HOLE
8.		F.T. FLOOR TRAP
9.		A.T. ABLUTION TAP



GROUND FLOOR

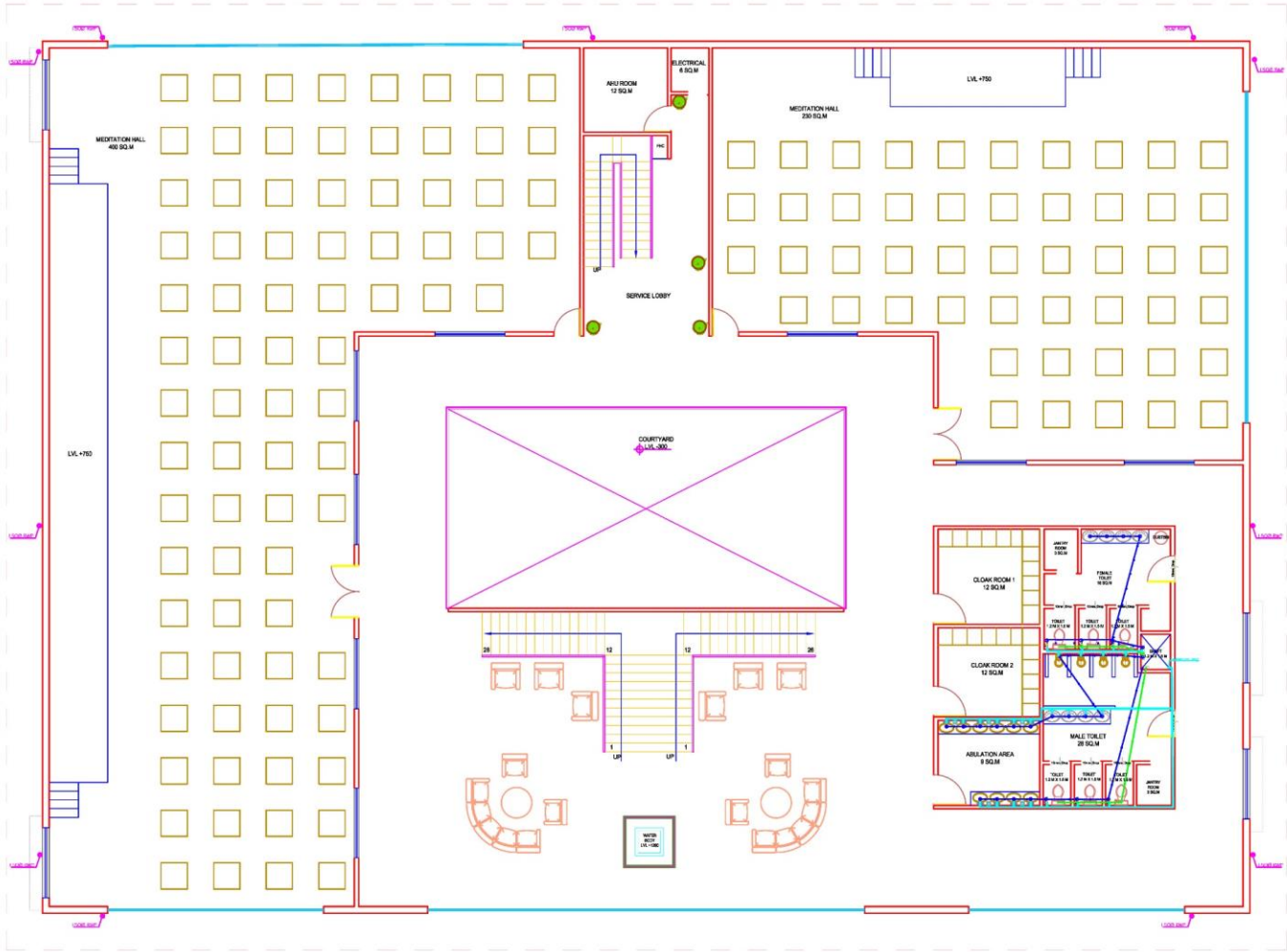
MENTAL HEALTH DEVELOPMENT CENTRE

PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101052  
BABU BANARASI DAS LKO  
DATE -15-05-2020

  
SIGN

LEGENDS

S.NO.	SYMBOL	DESCRIPTION
1.	<div></div>	P.V.C. PIPE FOR WATER SUPPLY
2.	<div></div>	RAIN WATER PIPE
3.	<div></div>	P.V.C. SOIL AND VENT PIPE
4.	<div></div>	P.V.C. WASTE AND VENT PIPE
5.	<div></div>	G.T. GULLY TRAP
6.	<div></div>	I.C. INSPECTION CHAMBER
7.	<div></div>	M.H. MAN HOLE
8.	F.T.	FLOOR TRAP
9.	A.T.	ABLUTION TAP



FIRST FLOOR

MENTAL HEALTH DEVELOPMENT CENTRE








SHEET NO.

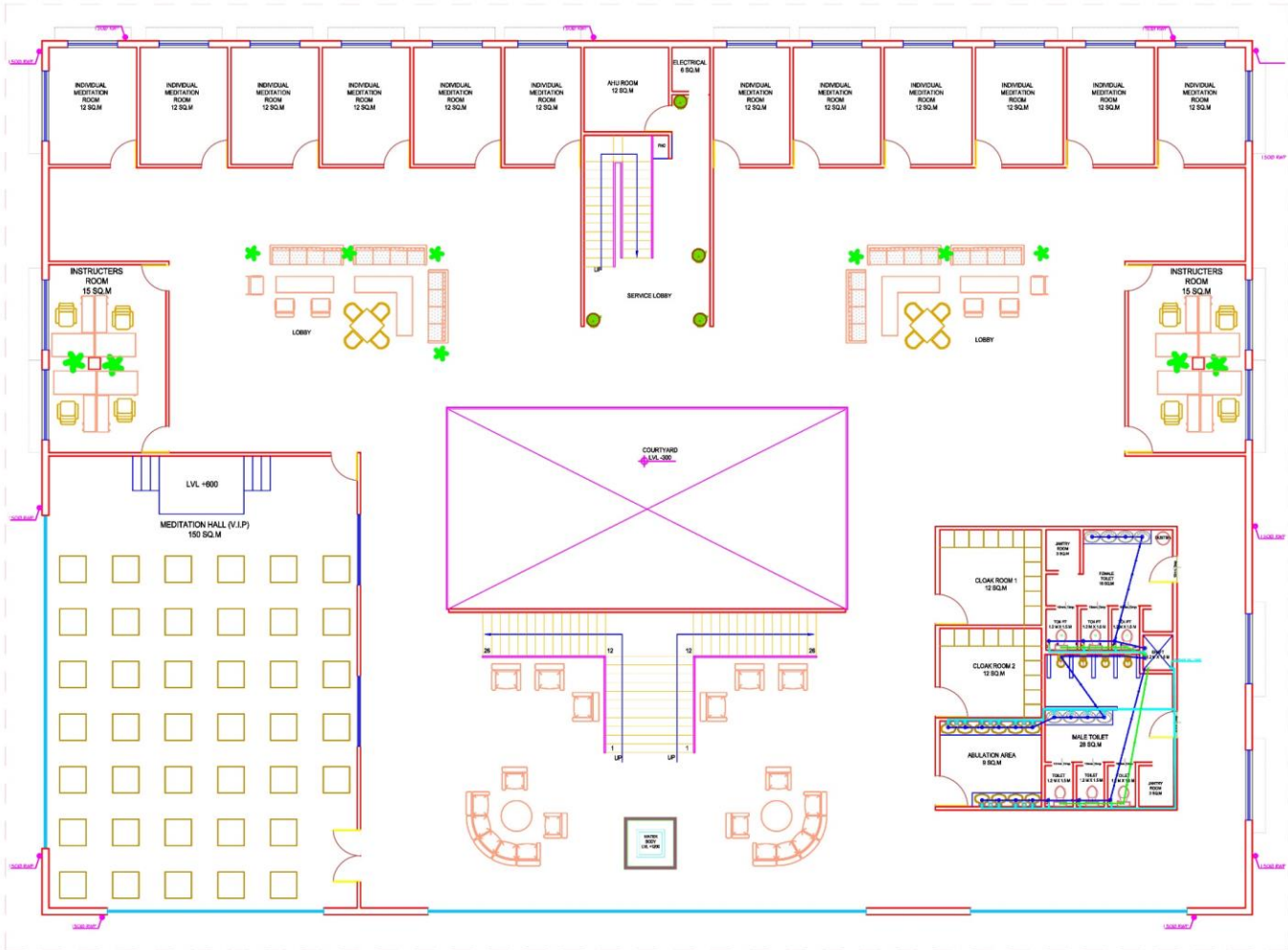
PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101052  
BABU BANARASI DAS LKO  
DATE -15-05-2020

SIGN



LEGENDS


S.NO.	SYMBOL	DESCRIPTION
1.		P.V.C. PIPE FOR WATER SUPPLY
2.		RAIN WATER PIPE
3.		P.V.C. SOIL AND VENT PIPE
4.		P.V.C. WASTE AND VENT PIPE
5.		G.T. GULLY TRAP
6.		I.C. INSPECTION CHAMBER
7.		M.H. MAN HOLE
8.	F.T.	FLOOR TRAP
9.	A.T.	ABLUTION TAP




SECOND FLOOR

MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.

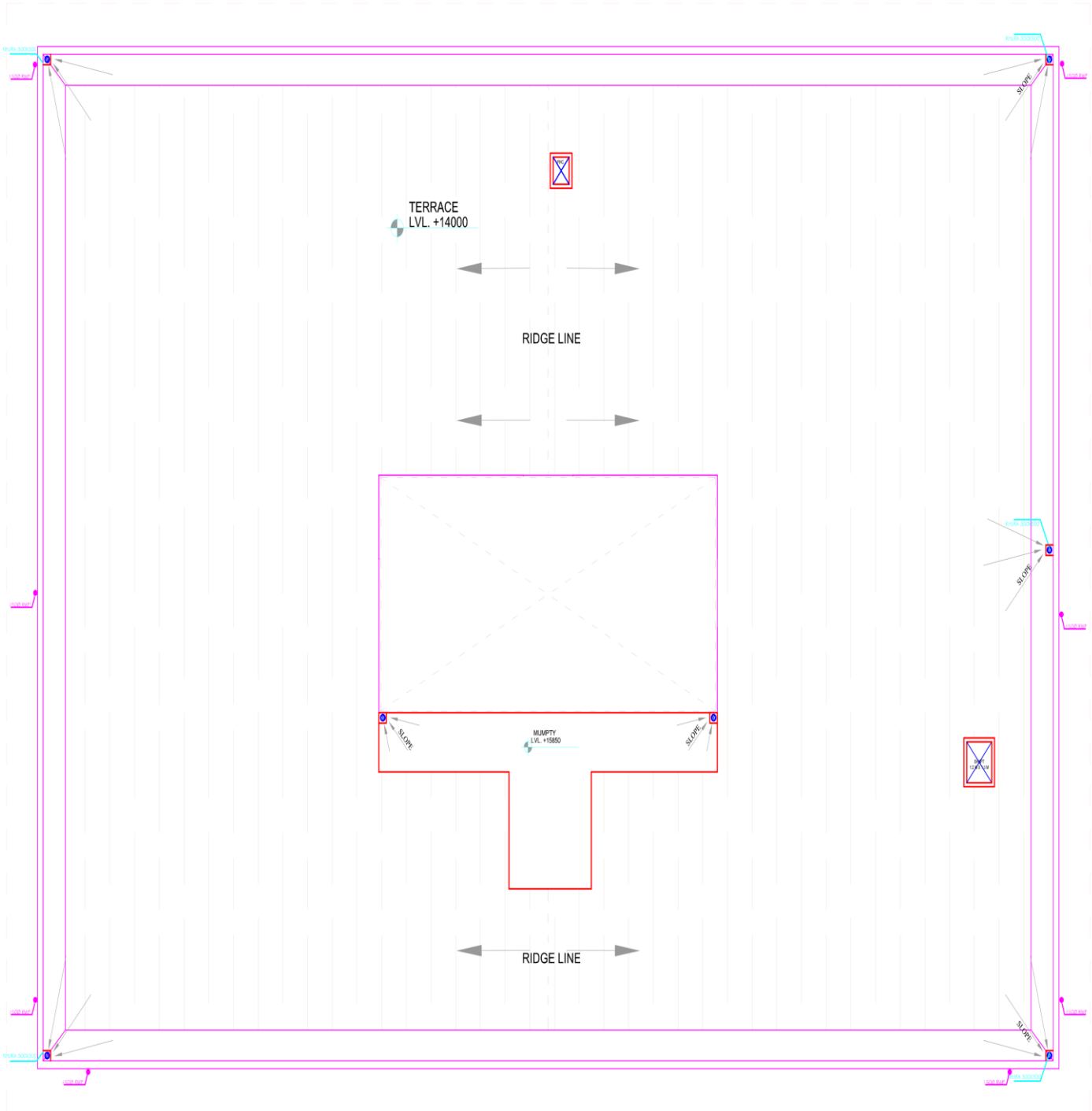


PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101052  
BABU BANARASI DAS LKO  
DATE -15-05-2020

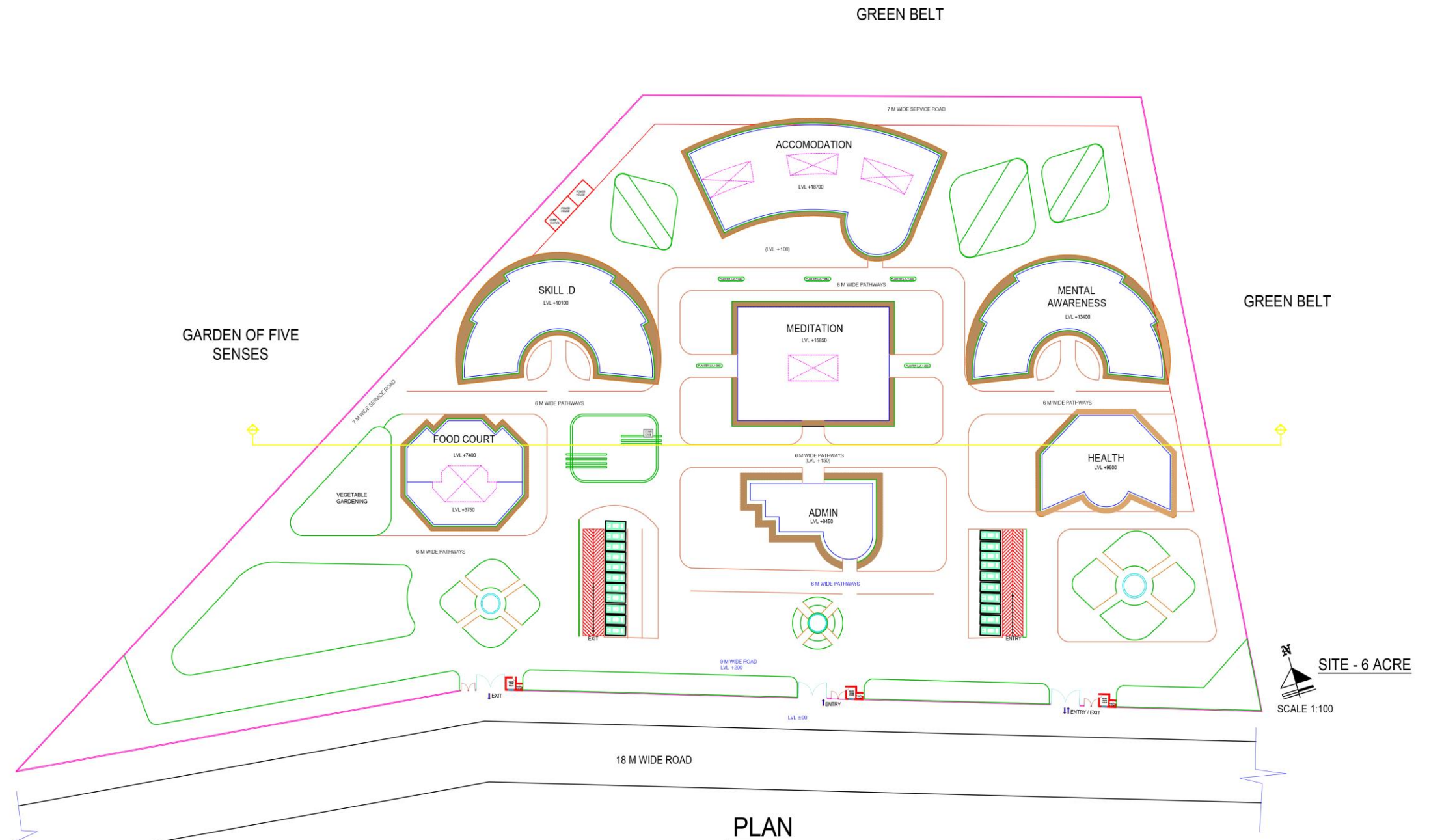
  
SIGN

# LEGENDS

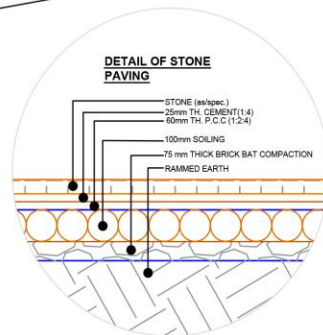
S.NO.	SYMBOL	D E S C R I P T I O N
1.		P.V.C. PIPE FOR WATER SUPPLY
2.		RAIN WATER PIPE
3.		P.V.C. SOIL AND VENT PIPE
4.		P.V.C. WASTE AND VENT PIPE
5.		G.T. GULLY TRAP
6.		I.C. INSPECTION CHAMBER
7.		M.H. MAN HOLE
8.	F.T.	FLOOR TRAP
9.	A.T.	ABLUTION TAP



TERRACE FLOOR PLAN  
PLUMBING



PLAN



SECTION A-A'

# MENTAL HEALTH DEVELOPMENT CENTRE

SHEET NO.

PRAGYA YADAV  
SECTION-AR5-2  
B.Arch  
ROLL NO-1150101052  
BABU BANARASI DAS LKO

DATE -15-05-2020

SIGN

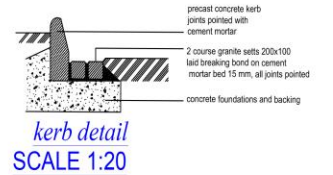
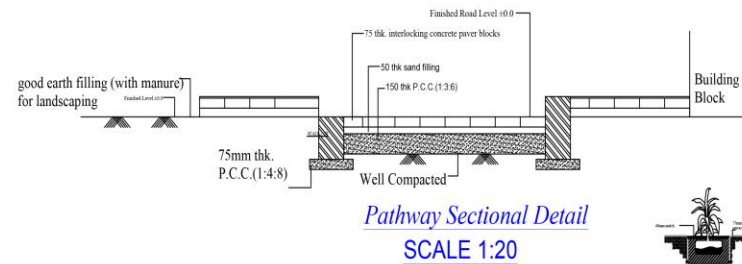




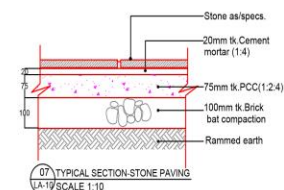
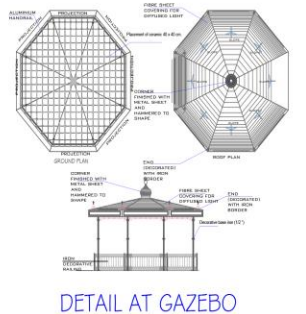
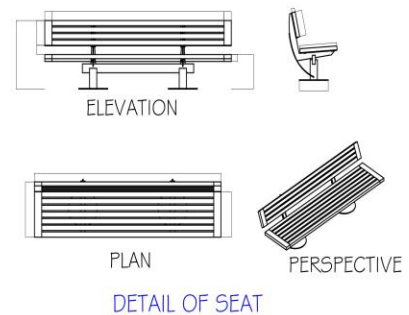
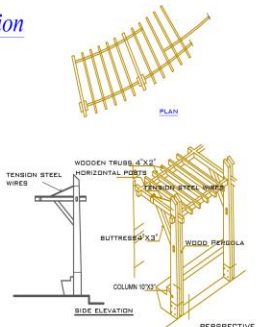
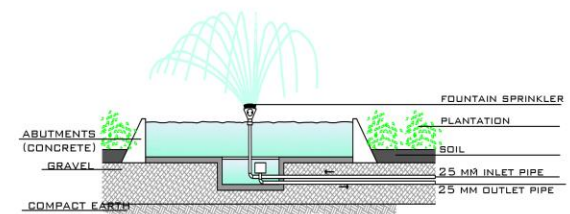


SYMBOL	NAME	TYPE	HEIGHT	FOLIAGE	DESCRIPTION	SPECIAL FEATURE
	BARIGA ASOKA	EVERGREEN	10 - 12 M	1.5-2.5 M	BIG GREEN LEAVES	SMALL EVERGREEN TREE
	ROYAL PALM	EVERGREEN	10-20 M	2-3 M	GRAND AVENUE EFFECT	REGIMENTAL EFFECT
	GOLDEN DURANTA	HEDGE	1 M	6" LEAVES	DWARF SMALL LEAVES	ORNAMENTAL HEDGE
	GULMOHAR TREE	EVERGREEN FLOWERING	10 - 15 M	2-3 M	RED FLAMBOYANT FLOWERS	ORNAMENTAL TREE
	PRIDE OF INDIA	FLOWERING	5-10 M	2-3 M	BLUE FLOWERS	GROUND COVER
	CAMPANULA CARPATICA	FLOWERING	10 CM	30 CM	PURPLE FLOWERS	GROUND COVER
	GURHAL	HIBISCUS	5 M	3 M	RED FLOWERS	REGIMENTAL EFFECT
	CALENDULA MARIGOLD	FLOWERING	10 M	5 M	PURPLE FLOWERS	GROUND COVER
	MEDICINAL PLANT					
	carpet grass					GROUND COVER
	interlocking bricks	pavement				
	WATER BODY					

## LANDSCAPE



## Section - Shrub Plantation



# MENTAL HEALTH DEVELOPMENT CENTRE

PRAGYA YADAV  
SECTION-AR5-2  
B.ARCH  
ROLL NO-1150101052  
BABU BANARASI DAS LKO








SHEET NO.

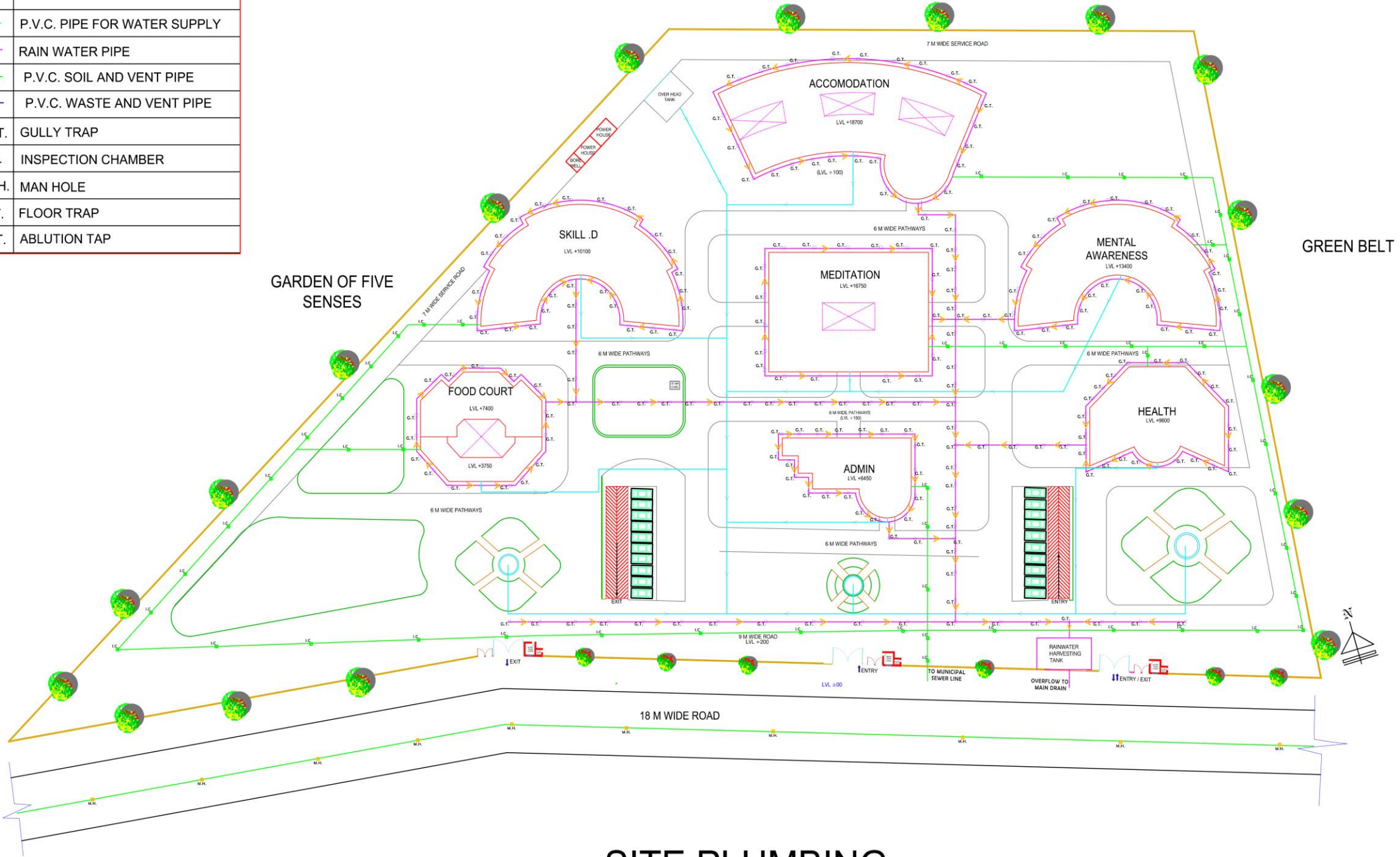
DATE -15-05-2020

SIGN



## LEGENDS

S.NO.	SYMBOL	D E S C R I P T I O N
1.		P.V.C. PIPE FOR WATER SUPPLY
2.		RAIN WATER PIPE
3.		P.V.C. SOIL AND VENT PIPE
4.		P.V.C. WASTE AND VENT PIPE
5.	 G.T.	GULLY TRAP
6.	 I.C.	INSPECTION CHAMBER
7.	 M.H.	MAN HOLE
8.	F.T.	FLOOR TRAP
9.	A.T.	ABLUTION TAP



MENTAL HEALTH DEVELOPMENT CENTRE

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