

THESIS REPORT
ON
**PRE-PRIMARY SCHOOL IN
GORAKHPUR UTTAR PRADESH**

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

BACHELOR OF INTERIOR DESIGN

BY

RIDDHI CHAUBEY

(ROLL. NO. 1190107021)

UNDER THE GUIDANCE OF
AR. ANSHU RASTOGI



TO THE
**SCHOOL OF ARCHITECTURE AND PLANNING
BABU BANARASI DAS UNIVERSITY
LUCKNOW.**

SESSION 2022-23

CERTIFICATE

I hereby recommend that the thesis entitled “**PRE-PRIMARY SCHOOL IN GORAKHPUR UTTAR PRADESH**”, prepared by **RIDDHI CHAUBEY** under the supervision, is the bonfire work of the student and can be accepted as a partial fulfillment for the award of Bachelor’s Degree in Interior Design, School of Architecture BBDU, Lucknow.

Ar. Anshu Rastogi
(Thesis guide)

Prof. Mohit Kumar Agarwal
(Dean Dept. Of Architecture)

Recommendation:- Accepted
Not Accepted

External Examiner

External Examiner

ACKNOWLEDGEMENT

Our hard work never shines if do not convey our heart feel gratitude to those people from whom we have got considerable support and encourage during thisproject.

To start with. First and foremost, gratitude towards almighty GOD for his blessings. Then I would like to thank all my faculty members who have supported and guided me all these memorable 4 years.

I would like to thank my thesis coordinator **Ar. Shailesh Kumar Yadav** and **Ar. Varsha Verma** who left no stone unturned to shape our thesis in the best possible way and also for his untimely help whenever required.

Furthermore, I would like to thank my thesis guide **Ar. Anshu Rastogi** whose valuable guidance helped us to understand the project better at every stage. I am grateful for patiently examining my works. It has been a learning experience and motivating mission in the past few months due to their diligent supervision.

I would further like to show my gratitude to my family members, for giving full assistance whenever required and being there with me in all ups and downs. Their motivation and supporthelped me to be more dedicated and inclined towards my goal.

Last but not the least all friends and loved ones who give their all kind of support and concern.I have put in my best of efforts and worked day and night to make this project a successful. Hope u too will appreciate my endeavor.

THANK YOU

RIDDHI CHAUBEY

Roll No.:1190107021

BBD UNIVERSITY LUCKNOW.

BABU BANARASI DAS UNIVERSITY, LUCKNOW(U.P.).
Certificate of thesis submission for evaluation

1. Name : RIDDHI CHAUBEY

2. Roll No. : 1190107021

3. Thesis Title : PRE-PRIMARY SCHOOL IN GORKHPUR U.P

4. Degree for which the thesis is submitted: BACHELOR OF INTERIOR DESIGN

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

7. Specification regarding thesis format have been closely followed. Yes/No

8. The content of the thesis has 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

12. Submitted 3 hard bound copied plus one CD Yes/No

.....
(Signature of the Guide)

AR. ANSHU RASTOGI

.....
(Signature of the Candidate)
RIDDHI CHAUBEY
Roll No:- 1190107021

DECLARATION

I hereby declare that the work done in this thesis project is my own work and I have collected the data from various sources, which I have duly acknowledged in my report.

Date:

Riddhi Chaubey

Place: Lucknow

Roll No: 1190107021

Year : 2022-2023

Bachelors of Interior Design

BBD University Lucknow

BABU BANARASI DAS UNIVERSITY

B.ID Thesis 2021-2022

(Certificate)

NAME OF STUDENT: RIDDHI CHAUBEY Roll No: 1190107021

BRANCH: BACHELOR OF INTERIOR DESIGN

DEPARTMENT: SCHOOL OF ARCHITECTURE AND PLANNING

THESIS TITLE: PRE-PRIMARY SCHOOL

THESIS GUIDE: AR. ANSHU RASTOGI

REMARKS: SATISFACTORY / NOT SATISFACTORY (IN CASE OF NOT SATISFACTORY GIVE COMMENTS):

(Sign Of Thesis Guide)

(Sign of External Examiner)

(Sign Of Thesis Coordinator)

(Sign of External Examiner)

(Sign Of H.O.D)

(Sign of Dean of Department)

TABLE OF CONTENT

TITLE	PAGE NO
Certificate	2
Acknowledgement	3
Evaluation Certificate	4
Declaration	5
Abstract	8
CHAPTER 1: INTRODUCTION	9-13
CHAPTER 2: SITE ANALYSIS	14-23
CHAPTER 3: CASE STUDY	24-33
CHAPTER 4: LITERATURE STUDY	34-53
CHAPTER 5: CONCEPT	54- 62
CHAPTER 6: STANDARDS	63- 65
CHAPTER 7: BIBLOGRAPHY	66-67
CHAPTER 8: DESIGN DEVELOPMENTS	68

ABSTRACT

This thesis paper concerns about the formation of interior perceptions in Pre-primary school. The environment forms , basis of many behavioral traits.

The education spaces must be given utmost importance while keeping mind the standards and principals. It will lead to creating an environment that would be of psychological interest in child development .

The design and structure of the educational space positively impact the children as it helps in both physical and mental growth.

The psychological impacts of interior design on children grasp the youngsters' behavior and emotions.

The employment of these ideas would be beneficial in the children's overall development considering their mental abilities.

It has been recognized for many years that children learn from direct experiences with their surrounding environments.

Considering children spend the majority of their early lives occupying school buildings, the quality of this built environment is important as it is thought to have an impact on their learning, social development and well-being.'

The interior design of school environments, has been constantly evolving with the need for new and improved school buildings coupled with significant changes in education over the past few decades.

use of creative methods, providing an understanding of Pre-primary school buildings through the children's eyes, giving them a voice within the research.

CHAPTER - 1

INTRODUCTION

INTRODUCTION

A **Pre-Primary school**, junior school, elementary school or grade school is a school for primary education of children who are five to eleven years of age. It typically comes after pre-school and before secondary school. Institution in which children receive the first stage of compulsory education, known as **Primary** or **Elementary School**.

Pre-Primary education is the incubator for the next generation of **leaders, thinkers, and innovators**. The challenge for primary school educators is to prepare young minds and using that knowledge to develop instructional strategies to keep students involved in curriculum materials. Primary school educators are responsible to deliver standardized learning to meet established standards of education. For primary education providers, it is very easy to see the learners as unique individuals. Early education is the time to find out a caring and supportive atmosphere that champions individuality while introducing the values of coordination to reach both individual and group goals. **Primary education is measured as the base for the future intellectual developments.**



NEED OF THE TOPIC

❖ **Pre-Primary School** is the foremost and basic right of every child. It is the first step in making of the character of child. The role of primary education is to ensure broad based learning of the child. This includes development of **social, cognitive, cultural, emotional and physical skills**. **Pre-Primary school** should aim at providing rich, stimulating and caring environment in which the child feels **happy, safe, secure and confident**. Learning at this young age should give birth to creative and enquiring minds.

AIM AND OBJECTIVE

- ❖ To Design a school where children can feel free to experience different challenges have interesting learning experience and get knowledge by themselves. And also help parents and their kids to build a healthy relationship, give children a happy childhood.
- ❖ To design a primary school will be both functional and asthetically pleasing for the users(teachers and students).
- ❖ Bring the community into the planning process through an integrated design process.
- ❖ Provide an interior environment that is visually comfortable and stimulating by integrating natural and artificial lighting, eliminating glare, and incorporating colors that stimulate or soothe depending on the space function.
- ❖ Design for diffuse, uniform daylight throughout classrooms.
- ❖ Use a daylighting analysis tool to integrate lighting systems, controls, and materials that reflect or absorb light.
- ❖ To design safe and non-toxic element.
- ❖ Use durable, non-toxic building materials.

SCOPE AND LIMITATION

- ❖ **Pre-Primary School** The scope of school organization is very vast. It includes; efficiency of the institution, securing benefits of the school through practical measures, clarification of the functions of the school, coordination of the educational programmes, sound educational planning, good direction, efficient and systematic execution. It provides close collaboration and sense of sharing responsibilities, organized purpose and dynamic approach.
- ❖ Scope of primary school exhibits an infrastructure that is truly impressive. Windows wide to allow for ample amount of cross ventilation and furniture that encourages students to hold a good posture, are some of the many elements that facilitate a healthy learning environment for the students.
- ❖ The faculty is highly experienced and pride in their want to enlighten students on a daily basis. Other than the well structured classrooms, the establishment holds under its roof multiple activity spaces. There is constant encouragement to engage in physical acitivities so as to help the students gain an all round enhancement. Over the years it has earned 100+ number of votes which speak highly of the place.

SITE DETAIL

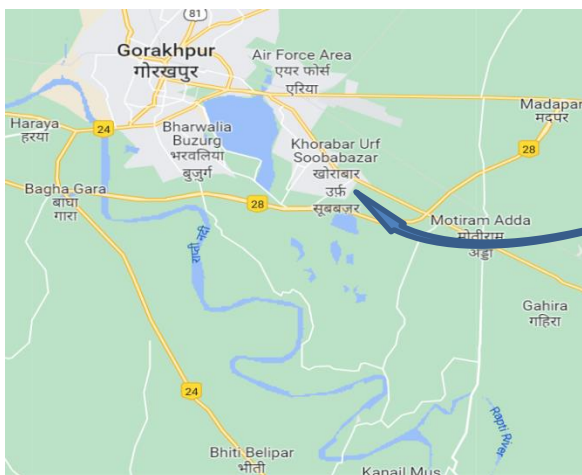
AREA: 1120 SQURE METRE

LOCATION: JUNGLE RAMGRAH

NEAR TO KHORABAR

GORAKHPUR UTTAR PRADESH

LOCATION



METHODOLOGY

- ❖ Site analysis
- ❖ Site & surroundings
- ❖ Site climate
- ❖ Case study
- ❖ Literature study
- ❖ Requirement sheet
- ❖ Area analysis
- ❖ Standard sheet
- ❖ Concept sheet
- ❖ Design
- ❖ Elective
- ❖ View

TENTATIVE PROJECT REQUIREMENT

- ❖ Reception
- ❖ Principle office
- ❖ Class rooms
- ❖ Activity room
- ❖ Music room
- ❖ Indoor Play
- ❖ Staff rooms
- ❖ Sports facility
- ❖ Toilets
- ❖ Other facilities as demand necessary for school

CHAPTER - 2

SITE ANALYSIS

INTRODUCTION (ABOUT CITY)

Gorakhpur is a city in the **Indian state of Uttar Pradesh**, along the banks of the **Rapti river** in the **Purvinchal region**. It is situated 272 kilometers east of the state capital **Lucknow**. It is the administrative headquarters of **Gorakhpur district**, **North Eastern Railway Zone** and **Gorakhpur division**. The city is home to the **Gorakhnath Math**, a **Gorakhnath** temple. The city also has an **Indian Air Force** station, since 1963. **Geeta Press**, the world's largest publisher of **Hindu Religious Texts** like **Ramayana** and **Mahabharat** is also located in Gorakhpur which was established here in **1926**. Gorakhpur city are renowned for their **world-class terracotta** item.



RAILWAY STATION



D.D.U. GORAKHPUR



GORAKHPUR ZOO



GORAKHNATH
MANDIR



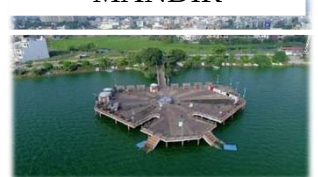
GEETA PRESS



GEETA VATIKA



RAIL MUSEUM



NAUKA BIHAR



AIIMS



M.M.M.U. OF TECHNOLOGY



RAJGHAT



AMBEDKAR PARK



VINDHYAVASINI PARK



B.R.D. MEDICAL COLLEGE

INTRODUCTION (ABOUT PRE-PRIMARY SCHOOL)

- A **preschool**, also known as **nursery school**, **pre-primary school**, or **play school or creche**, is an **Educational Establishment Learning space** offering **Early Childhood Education** to children before they begin **Compulsory Education** at **primary school**.
- A **Pre-Primary school**, junior school, elementary school or grade school is a school for primary education of children who are five to eleven years of age.
- It typically comes after pre-school and before secondary school.
- Institution in which children receive the first stage of compulsory education, known as **Primary or Elementary School**.
- Pre-Primary education is the incubator for the next generation of **leaders, thinkers, and innovators**. The challenge for primary school educators is to prepare young minds and using that knowledge to develop instructional strategies to keep students involved in curriculum materials.
- Primary school educators are responsible to deliver standardized learning to meet established standards of education.
- For primary education providers, it is very easy to see the learners as unique individuals. Early education is the time to find out a caring and supportive atmosphere that champions individuality while introducing the values of coordination to reach both individual and group goals.
- **Primary education is measured as the base for the future intellectual developments.**



DINNING AREA



PLAYING AREA



INDOOR PLAYING
AREA



INDOOR PLAYING



CONCRETE FLOOR



MUSIC ROOM

SITE ANALYSIS

SITE LOCATION

Location : The site is located in Gorakhpur in Uttar Pradesh.

Little angel public school jungle ramgrah khorabar Gorakhpur

2031 SQM.

Built Up Area: 735 SQM.

LANDMARK NEAR SITE



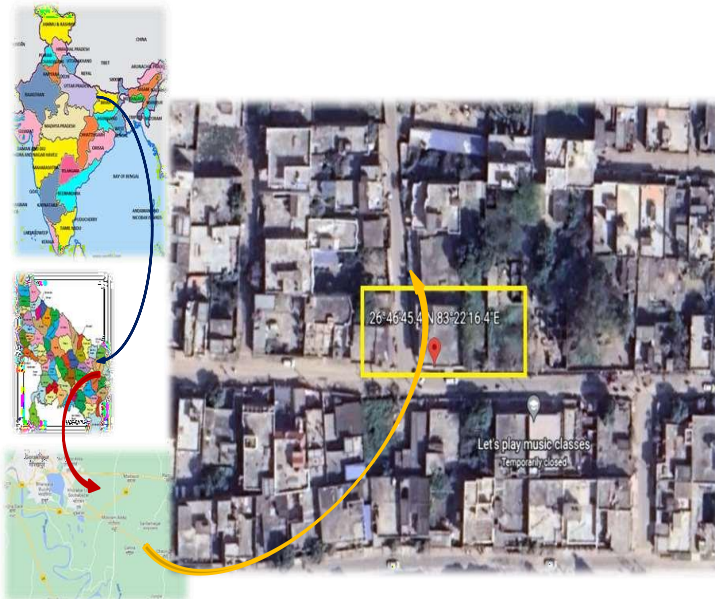
VANSAPTI MANDIR - 2 KM



KARJHA POOL – 3 KM



FOREST CLUB – 6 KM



ACCESSIBILITY TO THE SITE



BY BUS



NAUSAD BUS STATION-35 KM.



BY TRAIN



RAILWAY STATION-20 KM



BUS STATION-21 KM.



CITY BUS STATION-32



BY AEROPLANE



AIRPORT-14 KM.

SPACE REQUIREMENT

- RECEPTION AREA
- CLASS ROOMS
- OFFICE
- STAFF ROOMS
- ART AND CRAFT ROOM
- MUSIC ROOM
- DANCE CLASSROOM
- INDOOR PLAYING ROOM
- TOILET
- OUTDOOR PLAYING AREA

MATERIAL USED IN INTERIOR



EXPOSED BRICK WALL



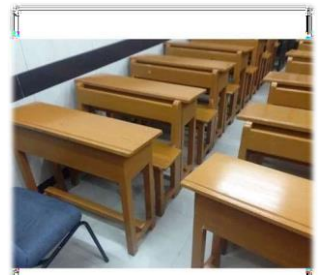
CONCRETE FLOOR FINISH



IRON.ACP DOOR



WOODEN DOOR



WOODEN BENCH



IRON GATE



SITE IMAGES

DESIGN LIMITATION

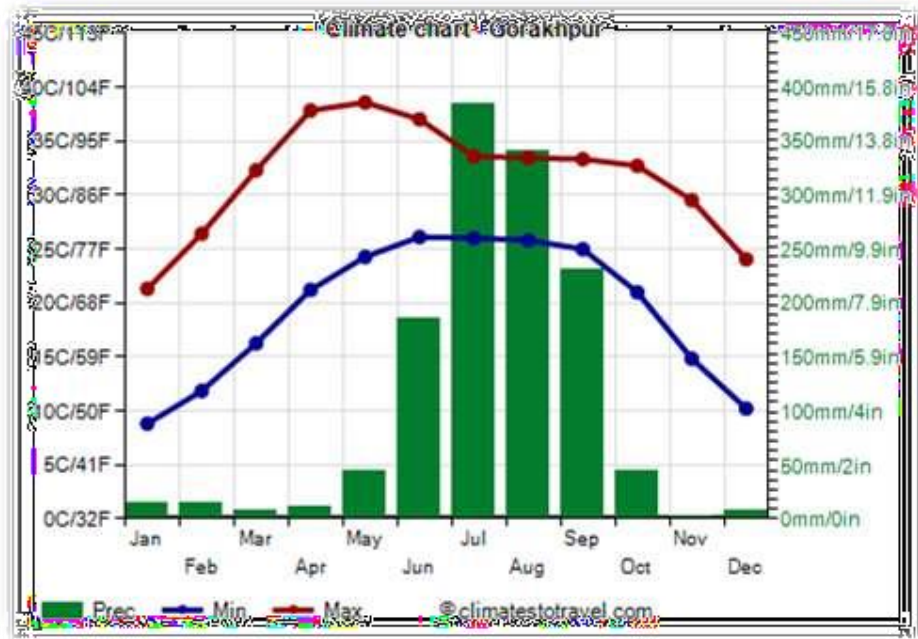
- RECEPTION AREA
- CLASS ROOMS
- OFFICE
- STAFF ROOMS
- ART AND CRAFT ROOM
- MUSIC ROOM
- OUTDOOR PLAYING AREA
- INDOOR PLAYING ROOM
- MUSIC CLASSROOM

PROJECT DETAIL

- Architect:- Ar. Manish Chowdhary
- Client:- Mr. Abhiram Singh
- Site location:- Jungle Ramgrah Khorabar Gorakhpur
- Site Area:- 2031sqm.
- Built up Area:- 735sqm.
- No.of Floor:- 2 Floor
- Project Name:- Global public school
- Authority:- Gorakhpur Development Authority
- Souece of Data:- Ar. shashikant
- Nature of the Project:- Educatioal

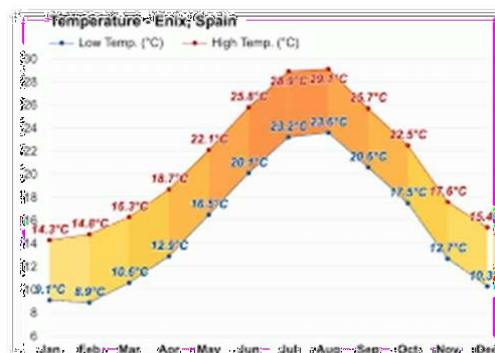
CLIMATE DATA

Gorakhpur has a composite climate, with temperature. high In summer And low in winter .Gorakhpur climate is a wet and dry.



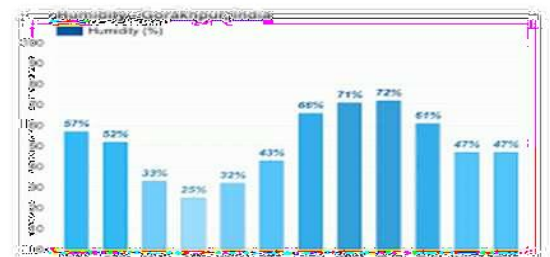
TEMPERATURE

- The hot season from April 15 to July 13, with an average daily high temperature above 99°F.
- The hottest month of the year in Gorakhpur is June with average high of 105°F and low of 83°F.
- Coolest season average of the Gorakhpur 42°F to 68°F



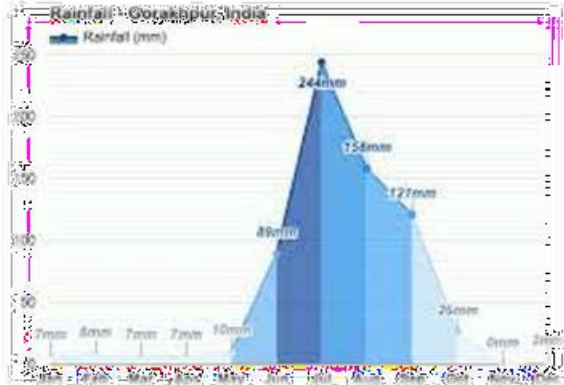
HUMIDITY

- The Month with the highest relative humidity is August (62%). With lowest relative humidity are March to May.
- Comfort humidity in April and May.
- June is a humid humidity.



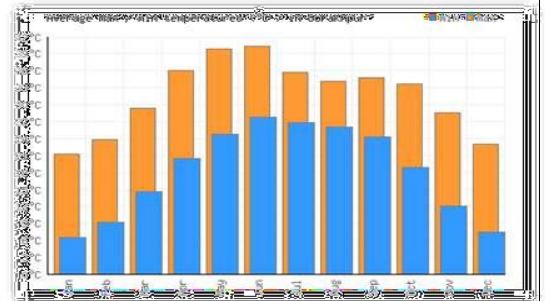
RAINFALL

- The Month of the highest rainy month is August and the month with the least rainy days is December.
- The rainless period of the month from October to January.



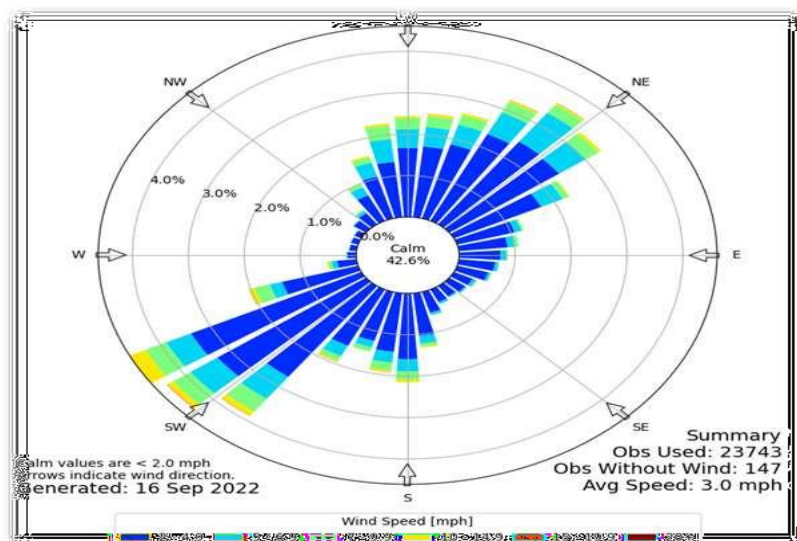
DAY NIGHT TEMPERATURE GRAPH

- Orange colour graph shown day temperature.
- Blue colour shown night temperature graph.
- May is the hottest month (32.5°C) in day and (26.7°C) in night.
- In January is a average temperature (6°C) in night and (14°C) in day.



WIND

- The windier part of the year from March 25 to August 8, with average wind speed 6.7 miles per hour.
- The windiest month of the Gorakhpur is June with an average hourly 8.1 miles per hour.
- The calmest month of the wind is 8 August to 25 March with an average 5.1 miles per hour.



SUNSHINE

- The Brighter period of the year is 10 April to 14 July and the brightest month of the year is May.
- The darker period of the year is 5 November to 3 February and the darkest month of the year is December.



SUNPATH

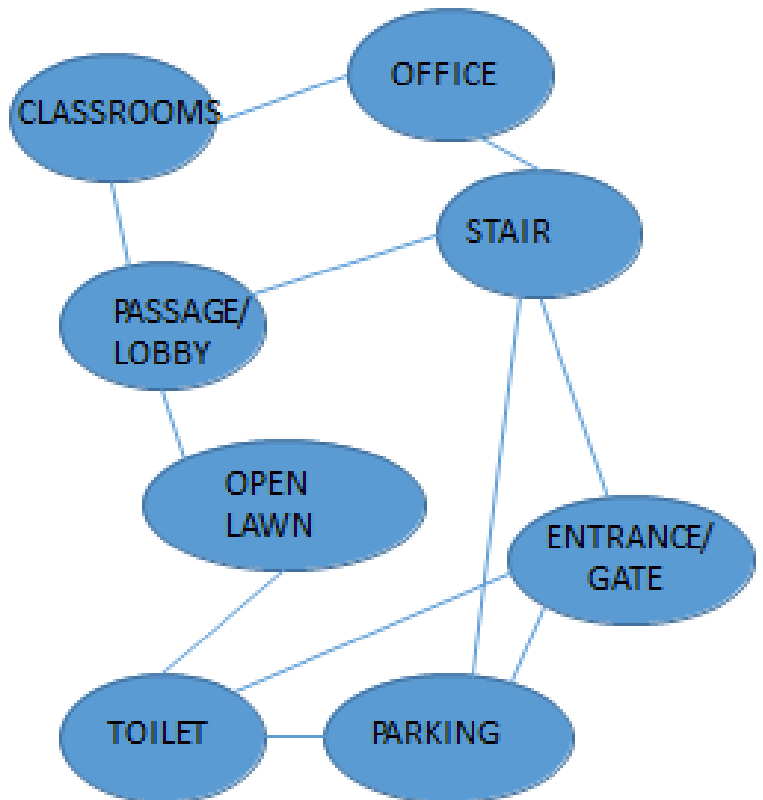
- Sun path refers to the daily and seasonal arc-like path that the Sun appears to follow across the sky as the Earth rotates and orbits the Sun.
- You can display here the sun direction and the sunny hours in Gorakhpur.



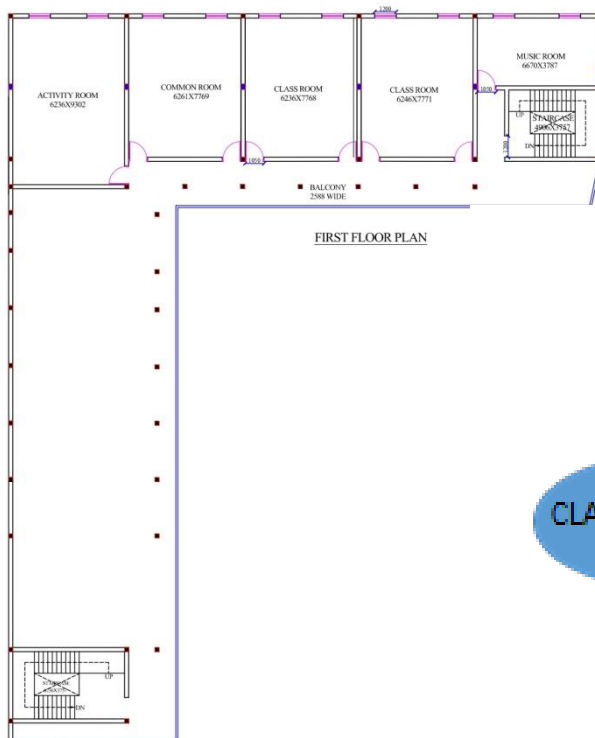
SITE DRAWINGS



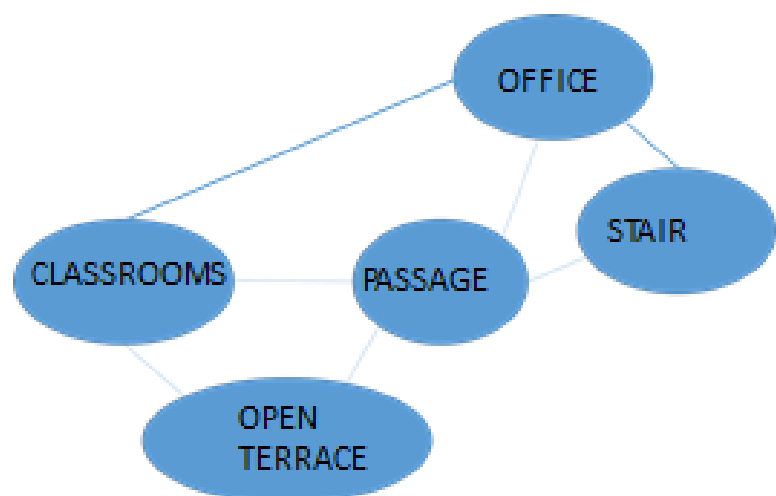
GROUND FLOOR



BUBBLE DIAGRAM GROUND FLOOR



FIRST FLOOR



BUBBLE DIAGRAM FIRST FLOOR

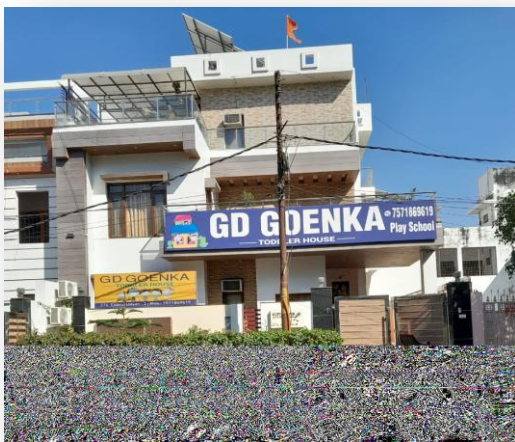
CHAPTER -3

CASE STUDY

- **GD GOENKA TODDLER HOUSE(LUCKNOW)**

INTRODUCTION

- GD Goenka Toddler House is one of the leading play school education franchise in India providing world class education to little kids
- G D Goenka Pre Nursery House is a cozy nest for the first spread of the wings of the child.
- It is activity based developmental curriculum in a snug environment.
- At the Pre Nursery the objective is to facilitate learning by creating a nurturing and stimulating environment for them to learn joyfully.
- Teaching Pedagogy is child centric and activity oriented using numerous teaching aids: Power Point, flashcards, pictures, puppets, actual objects, storytelling, dramatization and role play, etc.
- The endeavor is to involve the children in the discussions, gently guiding them, eliciting the right answers.



PROJECT DETAIL

Location: GD Goenka toddler House is located in 276,Eldeco Udyan II, Krishna nagar colony
lucknow Uttar Pradesh 226014

Site Area: 2603 sqft.

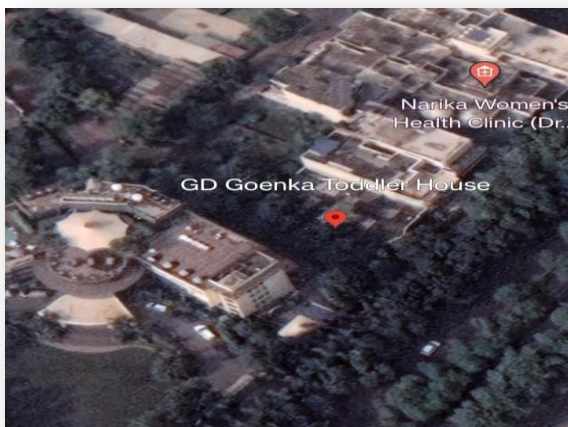
Architect: Bhavya Design and Architect

Completion date: 2016

Principal Name: Deepti Bhatt

Direction: East facing

EXISTING LANDMARK



**HOTEL MOON
PALACE**



**ELDECO CORPORATE
TOWER**



DPS SCHOOL

ACCESSIBILITY TO THE SITE



Kamta bus stand -17.9 km.
Kesar bagh bus station -17 km.



Charbagh railway station -13 km.



Amausi Airport - 8km



Krishna nagar metro station – 8.5 km.



- The doors are designed with rectangle cut-outs at the height of a child, creating a dynamic play at the child's eye-level.
- Use of playful primary color.
- Comfortable furniture in places where students socialize, relax, or read.
- Creative use of colour, student art, that positive messaging helps school.
- Feel more community-driven and encourage student to think creatively.

- Red, blue, yellow is a primary colour which is used in interior like door and wall etc.

Red- improve performance/concentration.

Yellow - Promote awareness help to release serotonin for happy mood.

Blue - enhance creativity and alertness, improve overall health memory and mood .

Green - Calming effect, stress reliever, promote concentration.

MATERIAL DETAILS

EXTERIOR MATERIAL

- Hpl
- Wooden texture tile(wall ,stair)
- White paint
- Ceiling light
- Black Granite
- White marble
- steel + Hpl Gate
- Matt red cement ramp tile
- Glass railing with SS Framing
- Gate light
- Iron rod
- Wooden window with glass
- Brick texture tile
- SS Railing
- Wooden door



FRONT ELEVATION



FRONT LAWN

INTERIOR MATERIAL

- Ceramic tile
- Wooden texture tile
- Paint
- Pvc grid ceiling
- Ceiling light
- Plywood
- mica
- Polypropylene Plastic
- Upvc window
- Glass



NURSERY CLASSROOM



- ACP slider
- EVA Rubber mat (Ethylene vinyl acetate)
- Foam mat
- Wooden panelling
- SS handle
- Texture tile
- Fabric
- Leather fabric
- Foam
- Stainless steel



KG CLASSROOM



PRE-PRIMARY CLASSROOM



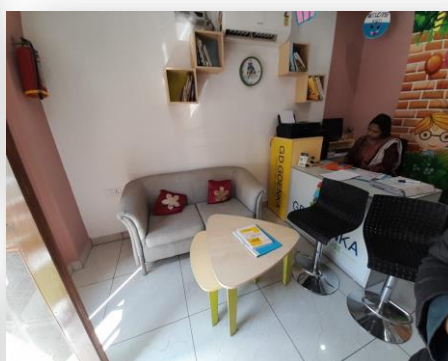
INDOOR PLAYING AREA



OFFICE



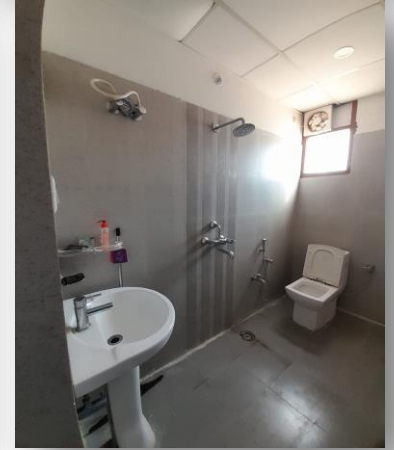
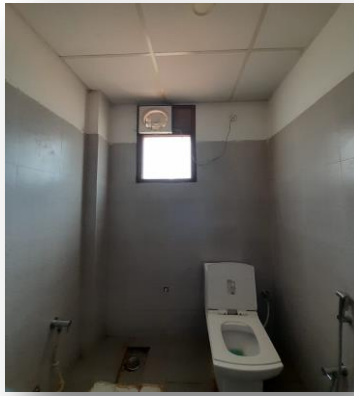
RECEPTION AREA



ACTIVITY ROOM

TOILET FIXTURE

- Ceramic Fixture
- European type water closet
- vitrified tile
- ceiling light
- pvc ceiling
- vetrified texture tile
- tap
- SS Rack



TOILET

DECOR ITEMS

- Paper craft is a collection of crafts using paper or card as the primary artistic medium.
- It can be folded, curved, bent, cut, glued, molded, stitched, or layered.
- Papermaking by hand is also a paper craft.



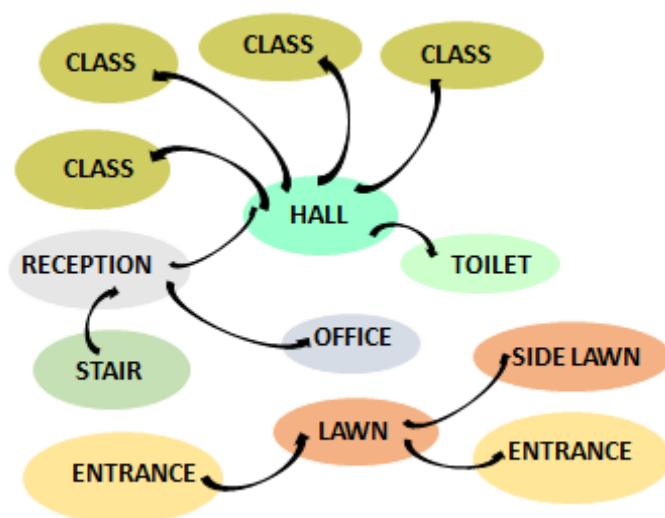
PAPER CRAFT WORK



FURNITURE SIZES

- Bench – 100X330X450 MM
- Sitting Bench – 900X330X330 MM
- Wall mounted cabinet – 380X900 MM
- Wardrobe – 1200X8400 MM
- Chair – 330x330x450 MM
- Storage cabinet – 2100X1200 MM
- Activity table – 900X900X330 MM
- Wash area – 1500X450X 900
- Wash basin size – 490X280X900 MM
- W.C Sizes – 400X720X430 MM
- Office table size – 1500X600X850MM
- Office table size – 1200X550X760 MM
- Office chair size – 530X1200 MM
- Toy boxes – 600X380X380 MM

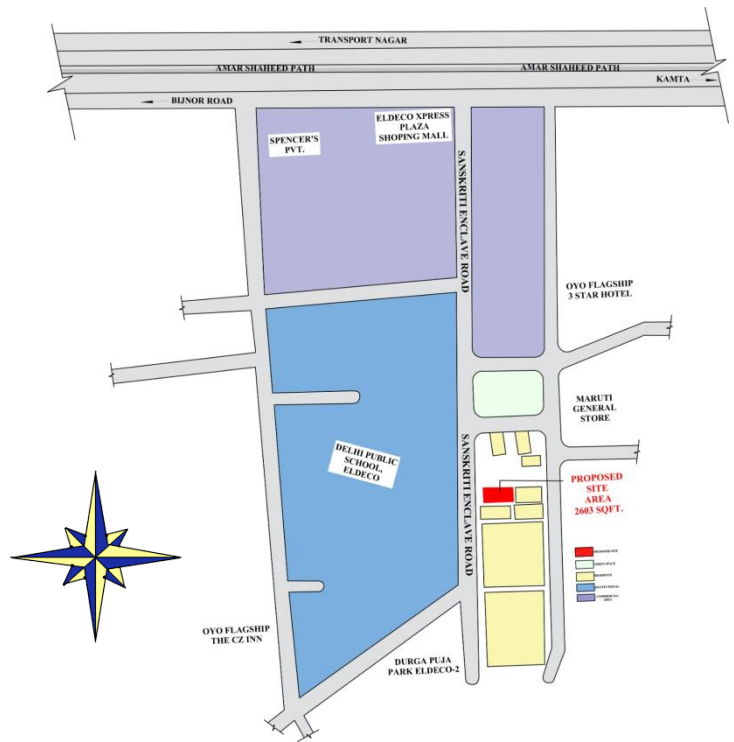
BUBBLE DIAGRAM



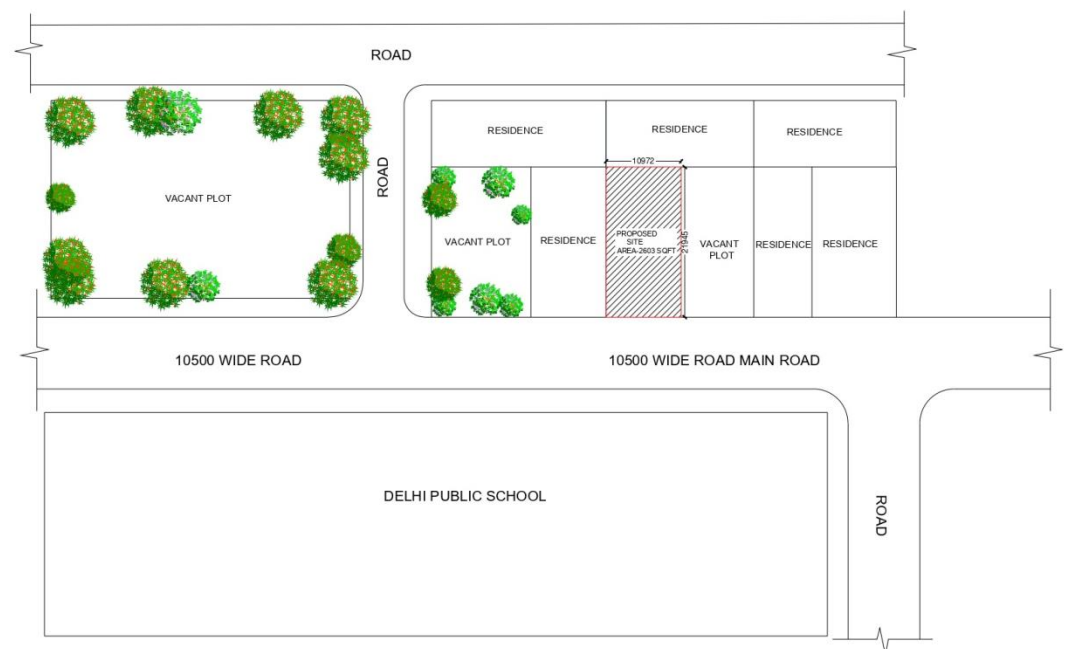
KEY PLAN

BENEFITS OF THE PAPER CRAFTING

- Developing Imagination
- Learning to Follow Instructions
- Inspiring Critical Thinking
- Expressing Emotions
- Encouraging Social Skills



SITE PLAN



CHAPTER -4

LITERATURE STUDY

- DPS KINDERGARTEN SCHOOL (BANGALORE)
- SANGAM ELEMENTRY SCHOOL (RAJASTHAN)

INTRODUCTION (DPS KINDERGARTEN SCHOOL)

DPS Kindergarten School in Bangalore, a project by Khosla Associates, experiments with a form of sustainability involving screening of sunshine with traditional terra cotta jails and natural ventilation and lighting. The building, based on a concrete module with corrugated sheet metal walls, proclaims a democratic model of schooling. The current kindergarten facility has 25 classrooms, and with 40 children a class, a total strength of 1000.

The efficiencies of designing and constructing a building so rapidly had to be balanced with what we believed in; creating a warm, playful and welcoming environment for these young children that would be filled with natural light and ventilation.



PROJECT DETAILS

LOCATION - DELHI PUBLIC SCHOOL Whitefield Mallasandra Village, Hoskote

Bengaluru, Karnataka 560067

AREA - 35000SQFT

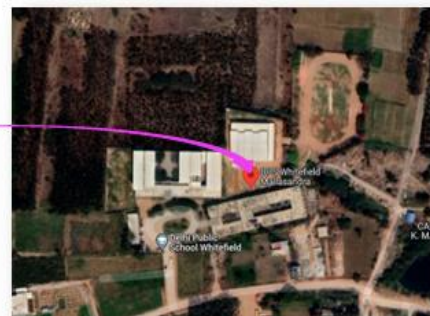
ARCHITECTS FIRM- KHOSLA ASSOCIATES

ARCHITECT- Sandeep Khosla, Amaresh Anand

COMPLETION DATE- 2013

LATITUDE - 12.9716° N,

LONGITUDE- 77.5946° E



EXISTING LANDMARKS



CANARA BANK



CLASSIC PET BISSLERI WATER

ACCESSIBILITY TO THE SITE



- Mallasandra Bus Stop - 44 km.
- Bhktarahalli Bus Stop - 2.7km.
- Kannamangalla Bus Stop - 6.9km.



- Whitefield railway station - 6.8km.
- Kadugodi railway station - 7.4km.



- ITPL metro station - 8.3km.

FAMOUS LANDMARKS



ISKCON TEMPLE
BANGALORE -35 KM.

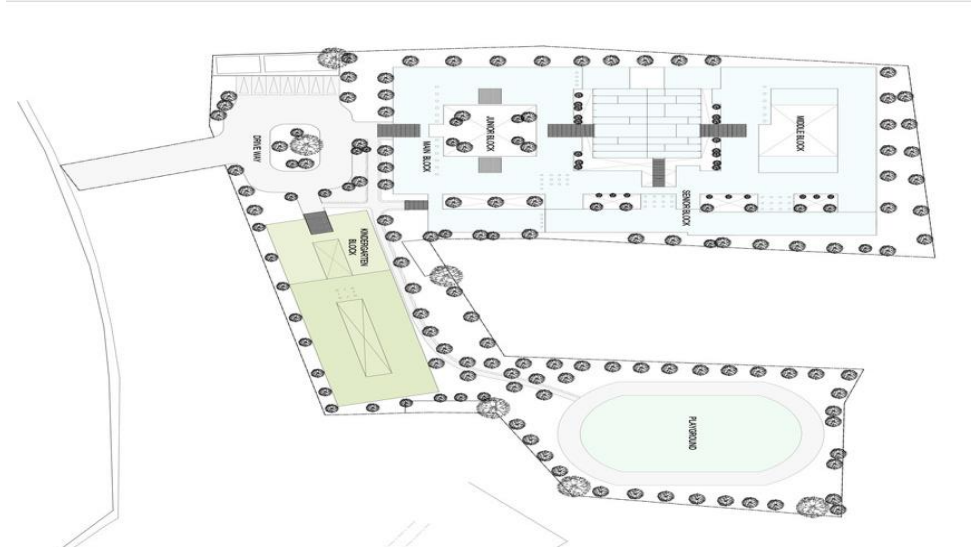


LALBAGH BOTANICAL GARDEN

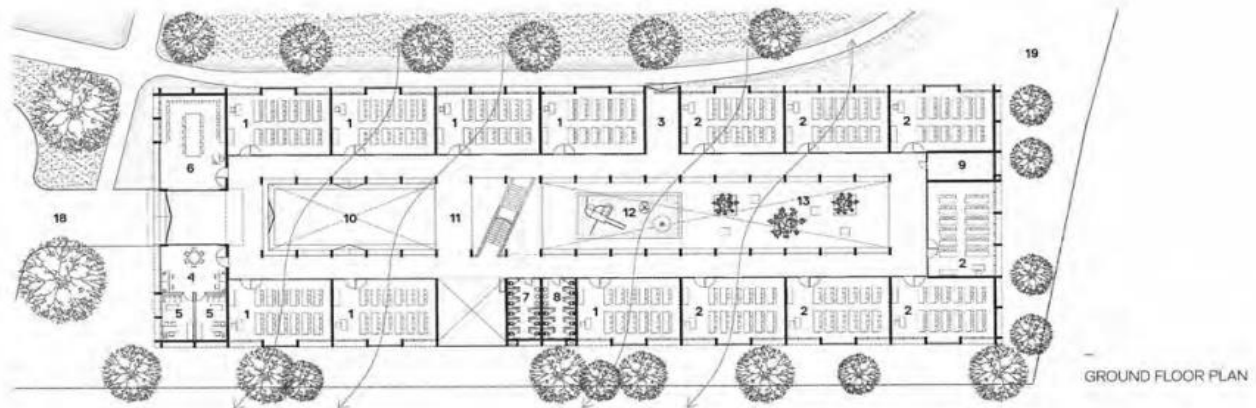


BENGALURU PALACE-30 KM.

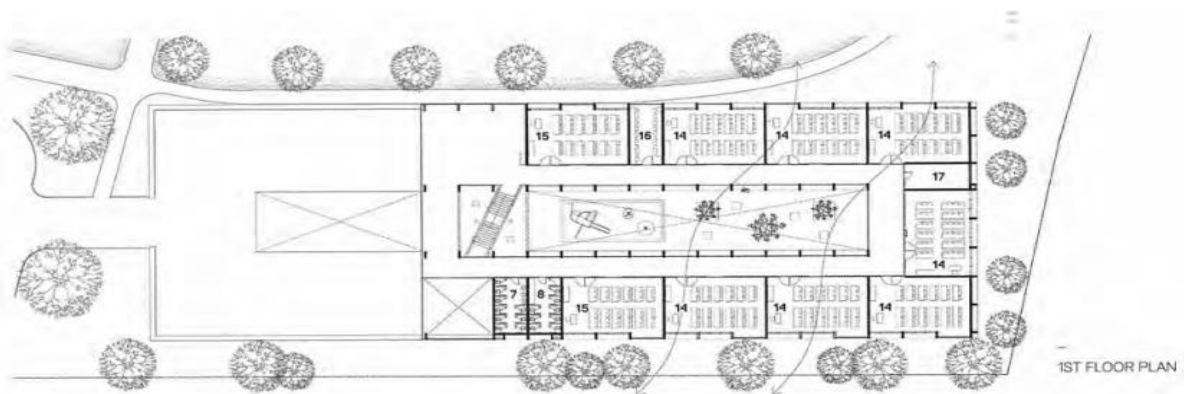
SITE PLAN



FLOOR PLAN

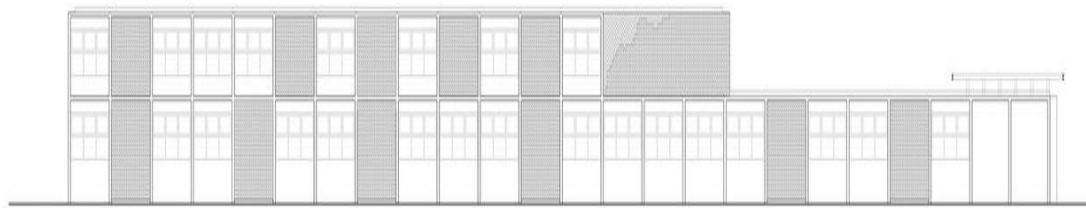


GROUND FLOOR PLAN



FIRST FLOOR PLAN

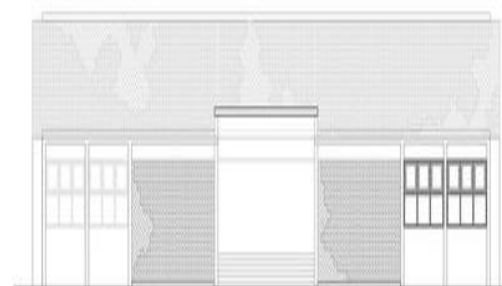
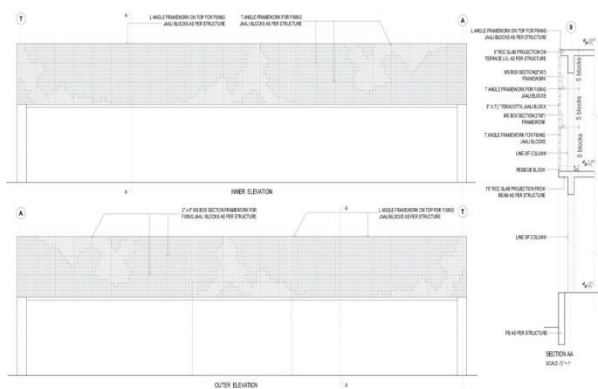
ELEVATION



NORTH WEST ELEVATION



SOUTH EAST ELEVATION

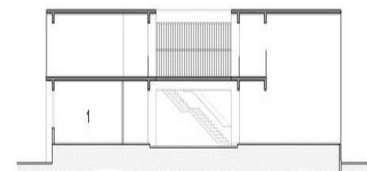


FRONT ELEVATION

SECTION



SECTION AA



SECTION BB

ABOUT PROJECT

- The primary challenge was to design and complete construction of the first 35,000 sqft. The efficiencies of designing and constructing a building so rapidly had to be balanced with what we believed in; creating a warm, playful and welcoming environment for these young children that would be filled with natural light and ventilation.
- the school's most important group activities take place: assemblies and games, in a paved area with playground equipment.
- Creating an efficient modular system that we could use as building blocks. We looked at the basic module of a 700 sft classroom (35ft x 20 ft.)



CLASSROOMS

- In the middle of the floor plan is a concrete stair case linking the ground floor with the first floor. A massive element colored red on the sides.

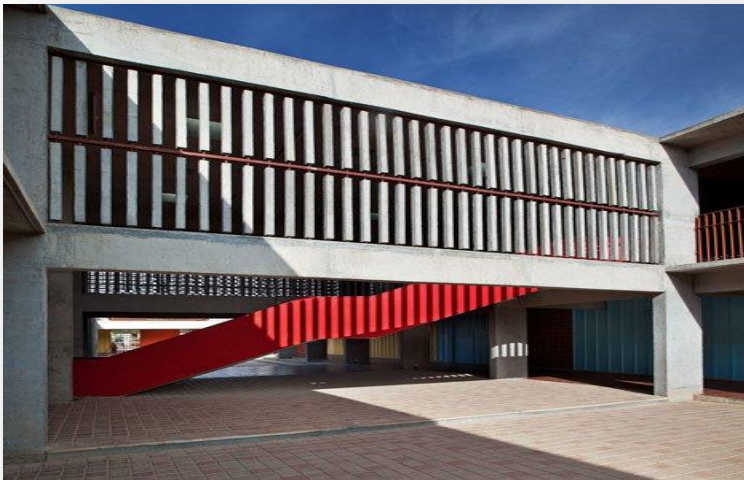


OUTDOOR KID PLAYING AREA

- The central open to sky court that runs the entire length of the building is the soul of the school and facilities learning outside the class room.



- A modular concrete framework provides a standard size for the classrooms, which in some places are stacked to create a second storey
- interlocking brick used in open courtyard.
- Corrugated metal wall on all corridors wall.



- That could be repeated horizontally, or stacked one atop the other. The classrooms on either side flank an 8ft wide single loaded corridor and open up to a central open- to-sky courtyard.
- The vernacular terracotta jails (shading and ventilation screens used traditionally in India) that wrap around parts of the building and are included on both sides of each classroom to facilitate adequate cross ventilation from NE to SW.
- The jail cut down the sun especially on the western face of the building where we have effectively used them in breakout areas.

- Constructed from two standard types of perforated brick, these decorative screens.



MATERIAL USED IN INTERIOR

- Concrete staircase
- Concrete walls and terra cotta screens
- Concrete structure
- Terra cotta floors
- Wood
- Plastic
- EVA flooring (**Ethylene and Vinyl Acetate**)



FRONT ELEVATION

INTRODUCTION (SANGAM ELEMENTRY SCHOOL)

- Sangam Elementary school is **an International Pre Primary school**.
- The school is located in the urban fabric of [Bhilwara](#), Rajasthan, India. The project covers an area of 2612 Sq. M. The design is focused on establishing an entity for students, where the built space and environment together becomes a successful tool for learning.
- Sangam elementary school incorporates fun child development frameworks for the young, excited, noisy and playful audience. sangam elementary school in bhilwara, Rajasthan emulates multiple Indian mythological stories that illustrate the idea of “teaching under the trees in open surroundings.”
- The concept of education being conducted in open spaces holds great significance in current times given the evident disconnect between city-dwellers And their natural surroundings.

PROJECT DETAIL

- **Project** – Sangam Elementary School
- **Location** - Bhilwara, Rajasthan India
- **Architects**- Sferablu Architects
- **Client** – Sangam Elementary School
- **Area** - [2600](#) M²
- **Completion Date**: 2018
- **Latitude** - 25° 37' 48.00" N
- **Longitude** -74° 55' 48.00" E





CLIMATE OF RAJSTHAN (BHILWARA)

- Rajasthan climate is extremely harsh climate condition with very little vegetation climate is hot and dry.
- So it is needs to building should be cool.
- For cooling long facing façade at wind direction.
- For ventilation it has two courtyard between the building.
- East side has less windows and slopping part of building.



PROJECT DETAIL

- **Project** – Sangam Elementary School
- **Location** - Bhilwara, Rajasthan India
- **Architects**- Sferablu Architects
- **Client** – Sangam Elementary School
- **Area** - [2600](#) M²
- **Completion Date**: 2018
- **Latitude** - 25° 37' 48.00" N
- **Longitude** -74° 55' 48.00" E

EXISTING LANDMARKS



ACCESSIBILITY TO THE SITE



Bhilwara Bus Station - 3.5 Km.



Bhilwara Railway Station – 1.5 Km.

SPECIAL FEATURE

- School has two courtyards for the reduce the heat and gain maximum ventilation and allow more light.
- Window is like number of puncture in wall.

LOCATION



CONCEPT

- The architectural entity was inspired by that enduring image of cheese with tiny holes on its sides thus, a built envelope with tiny puncture like window that help maintain visual connectivity with nature and the surrounding.
- The shapes of the classroom are rectangular and the main thing that the small windows are special made for the small children.



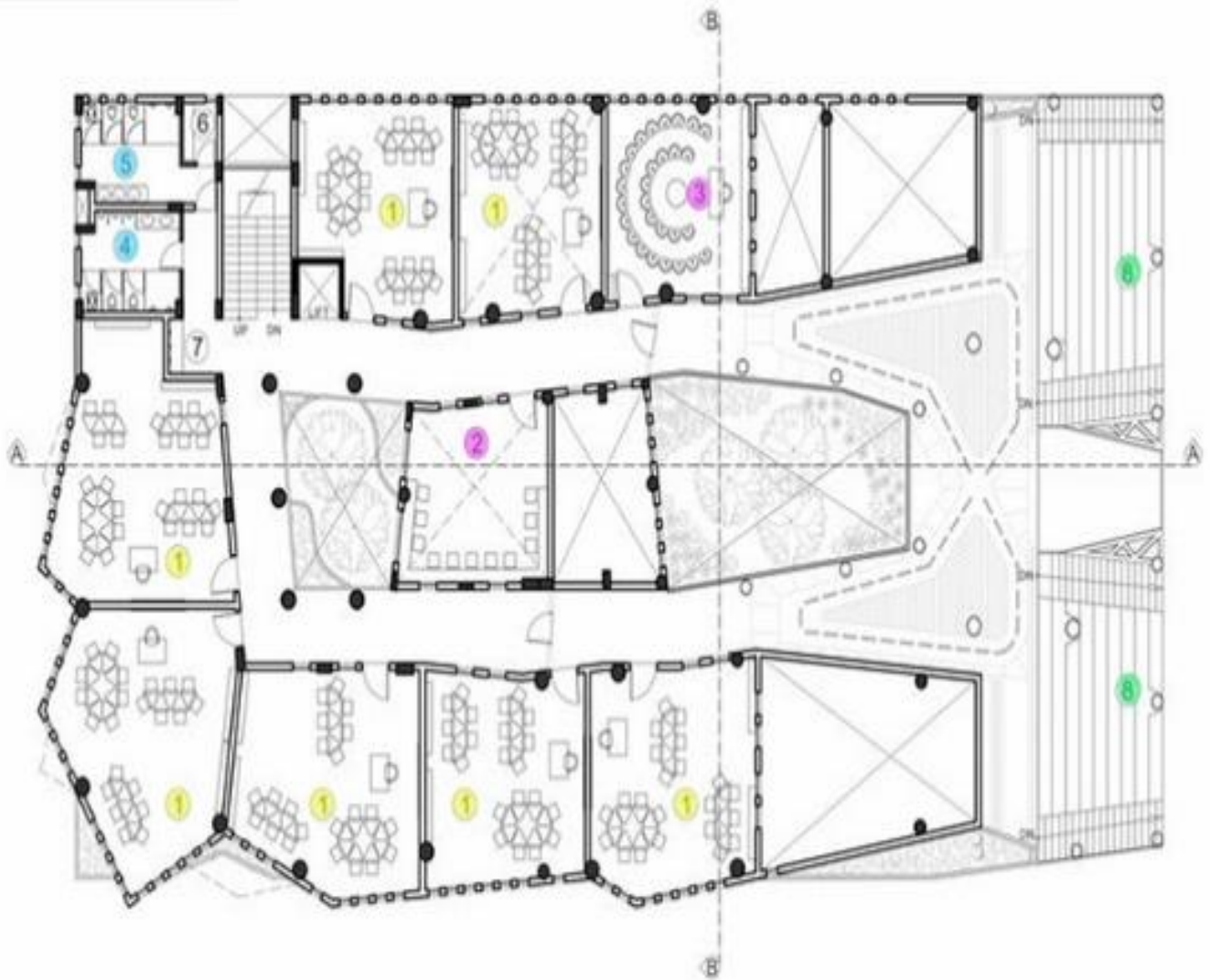
FLOOR PLANS



GROUND FLOOR PLAN

LEGEND

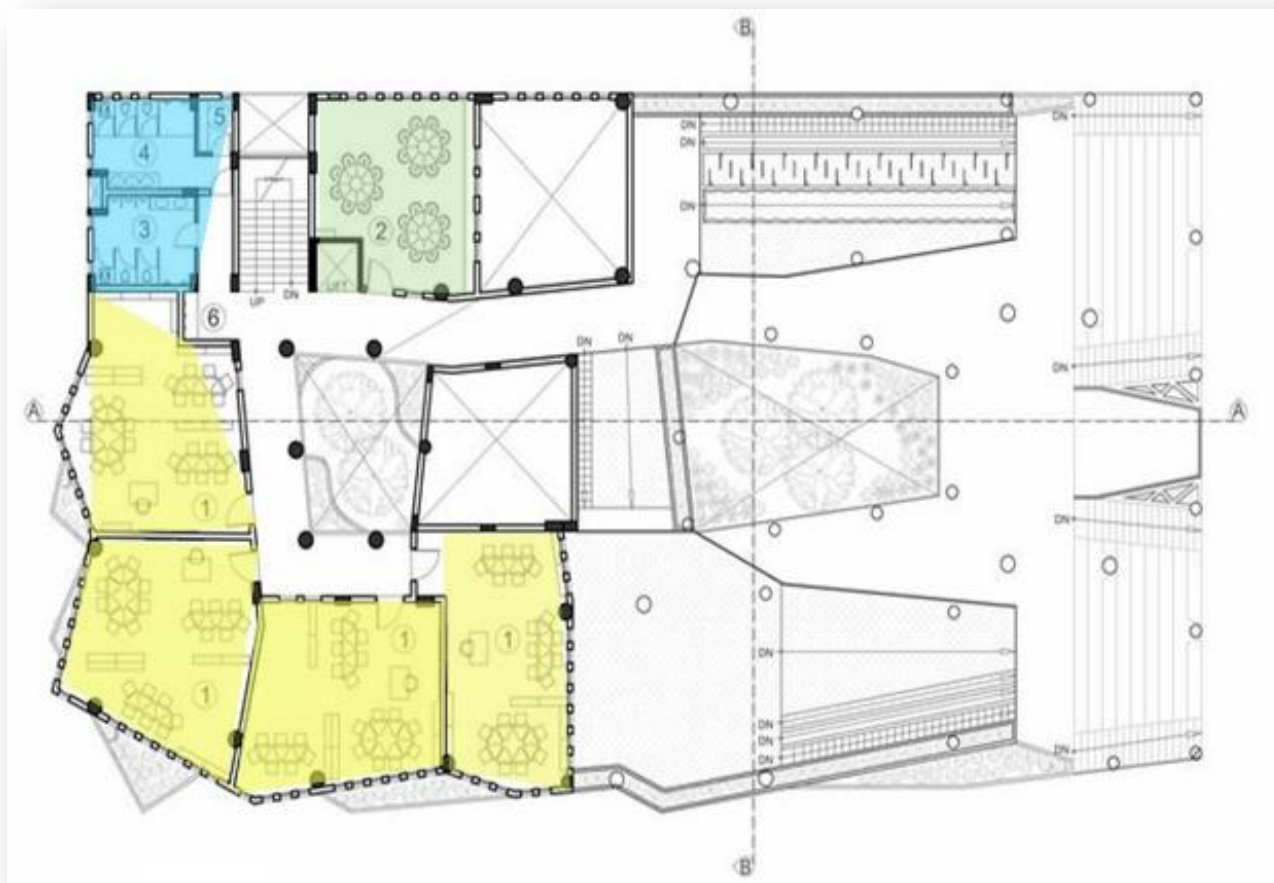
- | | |
|--------------------------|-------------------------|
| 1. Main Entry | 12. Staff Lounge |
| 2. Pickup Point | 13. Meeting Room |
| 3. Security Cabin | 14. Infirmary |
| 4. Parking | 15. Pantry |
| 5. Stage | 16. Staff Toilet Gents |
| 6. Entrance Foyer | 17. Staff Toilet Ladies |
| 7. Class Rooms | 18. Boys Toilet |
| 8. Administration | 19. Girls Toilet |
| 9. Principle Office | 20. Courtyard Ots |
| 10. Vice Principal Cabin | 21. Support Staff |
| 11. Multipurpose Court | 22. Toilets |



FIRST FLOOR PLAN

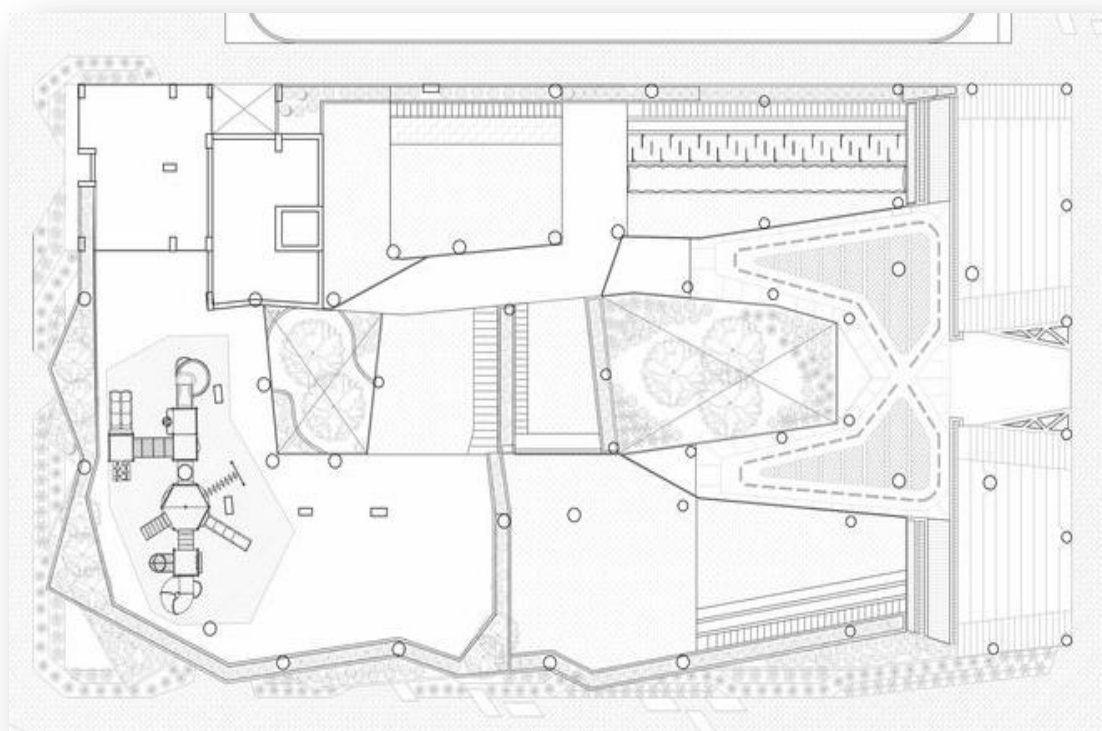
LEGEND

1. Class Room
2. Activity Room
3. boys Toilet
4. Girls Toilet
5. Store Room
6. Water Spout



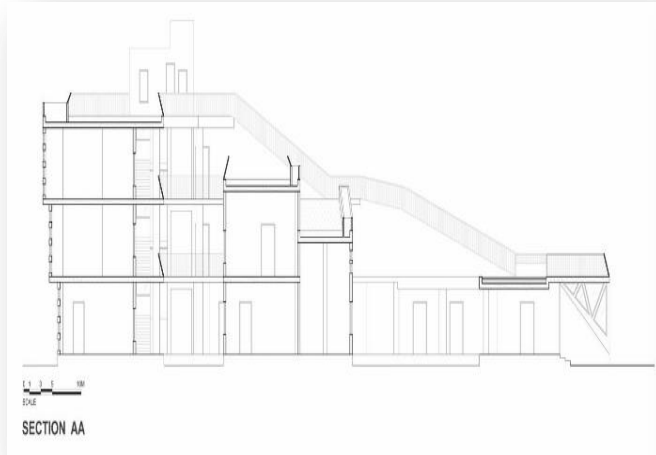
LEGEND

1. Class Room
2. Activity Room
3. boys Toilet
4. Girls Toilet
5. Store Room
6. Water Spout



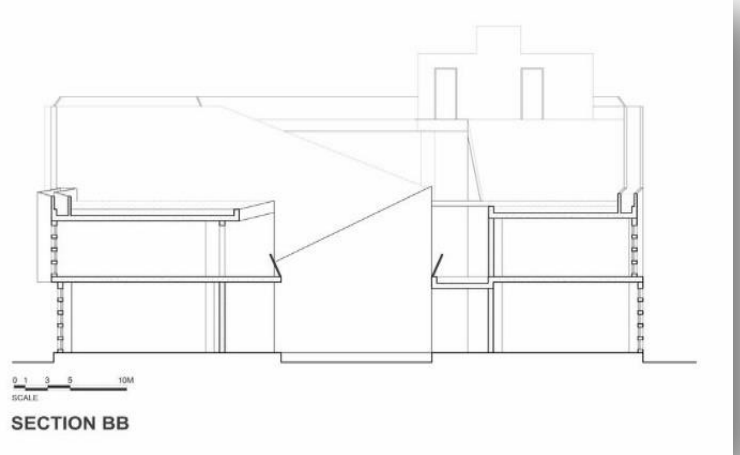
SECOND FLOOR PLAN

SECTION



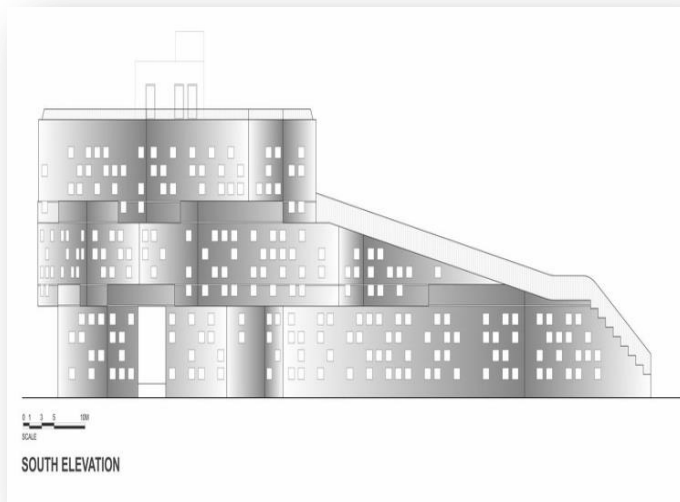
SECTION - AA

ROOF PLAN

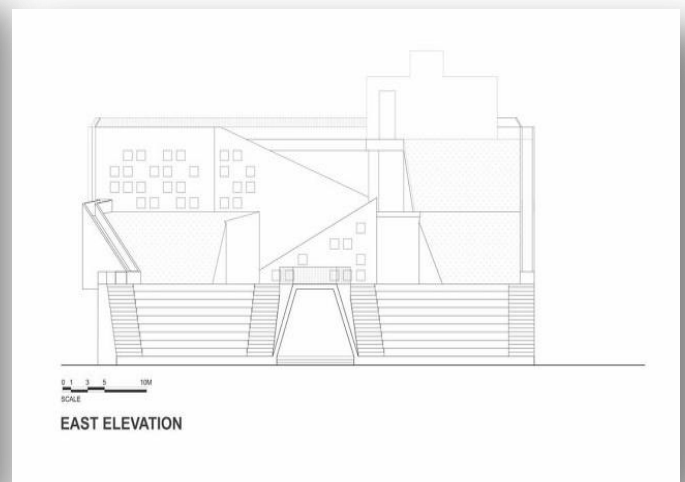


SECTION - BB

ELEVATION



ELEVATION-SOUTH



ELEVATION-EAST

MATERIAL USED IN INTERIOR



ACTIVITY ROOM



MULTI-PURPOSE HALL

Wall finishes - Light colour used in building like sky blue, grey, pink, white, green, yellow.

Ceiling - gypsum board false ceiling, led light, ceiling light, fluorescent tube light, fans, air conditioner.

Flooring - vitrified tile, granite, cota stone.

Furniture – wooden and trapezium plastic furniture.





ART & CRAFT ROOM



OUTDOOR PLAYING AREA



DANCE CLASSROOM

OBJECTIVE OF THE PROJECT

- In olden times, student were taught in open environments under the tree.
- Architect have been inspired by this concept as it helps children connect with nature.
- It is a wonderful way to learn various life skills, and presents opportunity for kids to run, jump, slide, make a mess and explore themeselves in an informal way.
- The ideas was to create a space such that the thought of going to school would bring a smile on their faces.



JUNGLE THEME GYM



TOP VIEW

ABOUT PROJECT

- Architect create a school like a environment space.
- Repurposed entire roof as a playing area.
- Courtyard is like breathing centre of building.
- Using various colour which children like.
- The size of the windows is small to ensure safety and positioning is driven by the height of the students.
- The students get a view of the outside while sitting at their desks. The building looks like a sloping garden.
- Near the main entrance is an open amphitheater which is used for activities such as morning prayers, dramas and perfomance.

- This made us repurpose the roof of the entire building into a sloping garden interconnecting each floor. The flat area of the roof is used as a cycling track



INDOOR PLAYING AREA



GARDEN



CORRIDOOR



CLASSROOM



STAFF ROOM



AMPHITHEATRE

CHAPTER -5

CONCEPT

CONCEPT

THEME-POST-MODERN STYLE

HISTORY OF MODERN STYLE

- Modern design is part of the larger movement of modernism. Modernism is usually dated back to around the end of the 19th century and early of 20th centuries.
- It is categorized by abstract thinking that deviated from realism, and renaissance beliefs in previous eras.
- Modernism in art and architecture, in particular, was popular during the 1940s to 1980s.
- During this era, homes designed in the modern style consisted of smooth, straight lines; open floor plans; large glass windows; geometrics shapes and patterns; man-made materials; and natural elements that showed an integration with the outdoors.

ELEMENTS OF POST-MODERN STYLE

CLEAN LINES:

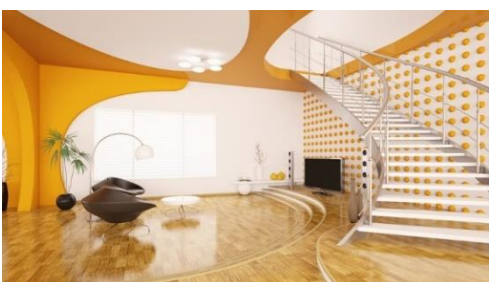
The design styles preceding modern design were [Gothic, Renaissance, and Victorian styles](#). They incorporated heavy textures, ornamentation, and plenty of dark and dramatic elements. Modern design rejected these aspects in favor of clean, straight lines, uncluttered spaces, and an overall lack of fussiness.

NEUTRAL COLORS

Post Modern style steers clear of bright colors in favor of a monochromatic, neutral color palette. Think white, beige, gray, black, and pastel tones.

NATURAL MATERIALS

The modern design era ushered in new materials from which to construct furniture. Steel, molded plywood, and plastic were all used both instead of or alongside wood. For modern designers, the goal was to strike a balance between pure function and aesthetics.



LOW AND LONG FURNITURE

Long furniture pieces situated low to the ground can give your home a modern look if they're also made from natural materials like unpainted wood or metal. Leather and fabric upholstery, wood veneers (such as those used to create the classically mid-century modern Eames chair), glass, chrome, steel, and concrete are also popular finishes for modern furniture.

OPEN FLOOR PLAN

Use furniture instead of walls to differentiate between the spaces of an open plan space.

TYPES OF MATERIAL USED IN POST-MODERN STYLE

FLOORING

Vinyl flooring

Luxury vinyl tile

geometric pattern tile

Vitrified tile

Cork tile

Porcelain tile, etc.

WALL FINISHES MATERIAL

Glass

Ceramic tile

Plastic panel

Plywood

Wallpaper

Paint, etc.

CEILING MATERIAL

POP false ceiling

Gypsum false ceiling

PVC panel false ceiling

Fibre false ceiling

Metal false ceiling

PRINCIPLES OF POST-MODERN STYLE

BALANCE

The definition of balance describes it as the harmonious arrangement of components – it ensures that no single element in a room overpowers another in terms of visual weight or dominance.

CONTRAST

A contrast refers to **colour combinations of darker and lighter shades**. Contrast is when two or more elements are placed together such that their opposite characteristics become prominent.

PROPORTION

Proportion in interior design refers to the balance between design elements including **size, shape, colour and texture**.

PATTERN

Pattern is defined as a repeating element or design that produces obvious directional movements. Patterns come in all **shapes and forms**.

MOVEMENT

Movement is the path the viewer's eye takes through the work of art, often to focal areas.



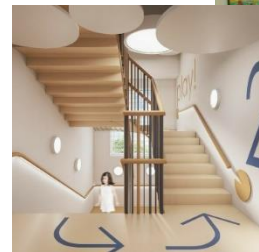
RHYTHM

- Definition of the rhythm refer to Repeating **colour, pattern, texture and shapes** throughout a space, called a rhythm.

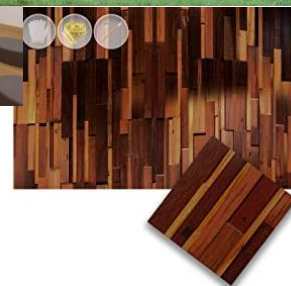
REPETITION

- Repetition refer to reusing elements - **colors, patterns, fonts, images, textures and more** - throughout a piece of work.





2.



3.



4.



5.



6.



7.



11.



12.



13.





15

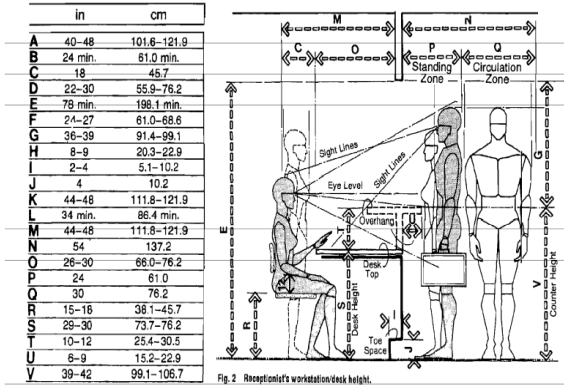


CHAPTER -5

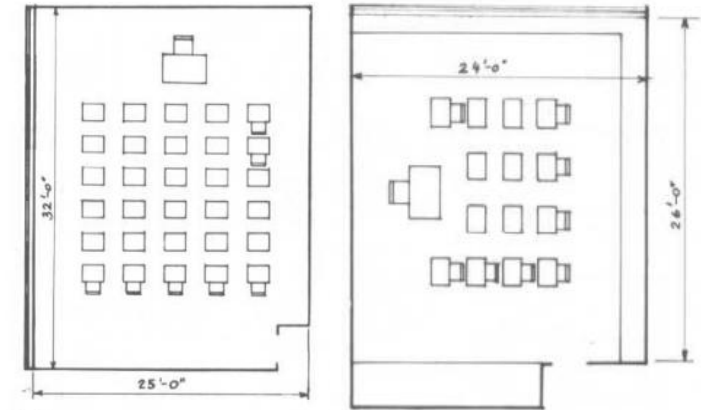
STANDARDS

STANDARDS FOR PRE-PRIMARY SCHOOL

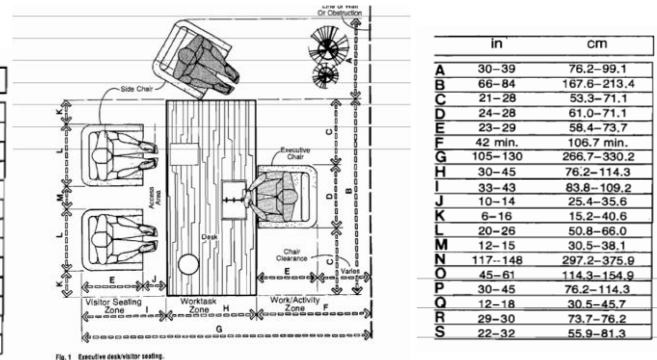
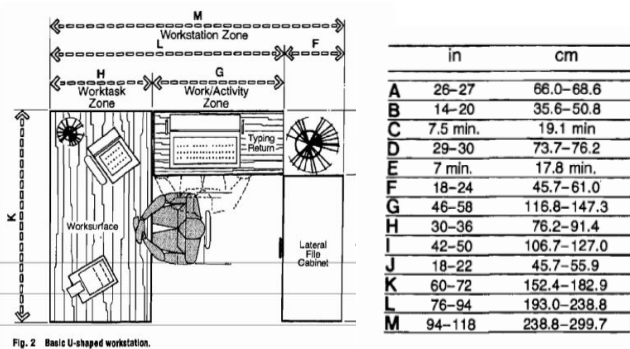
RECEPTION AREA



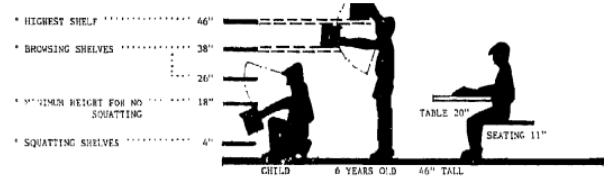
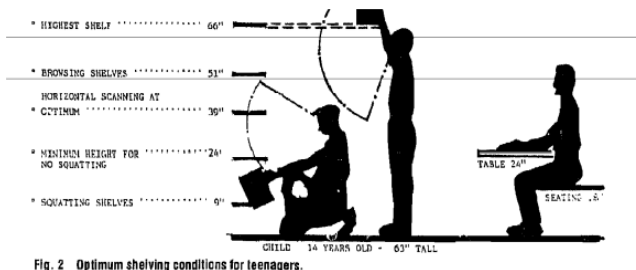
CLASS ROOM



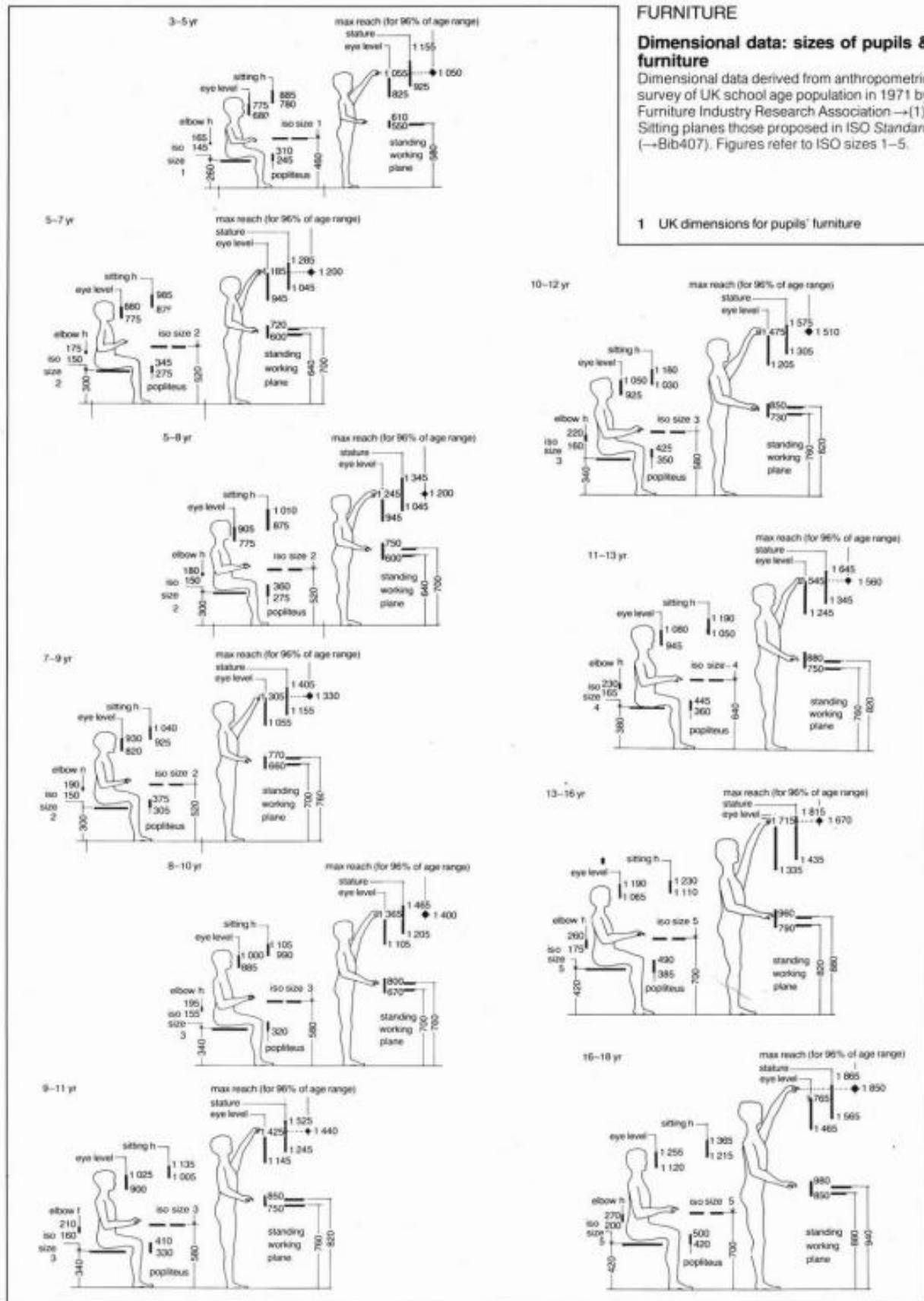
OFFICE



LIBRARY



FURNITURE STANDARDS



CHAPTER -6

BIBLIOGRAPHY

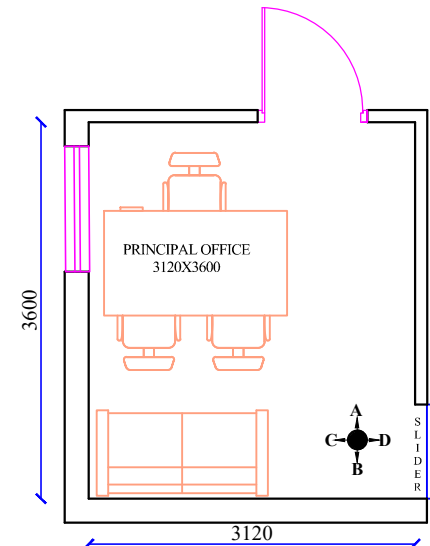
BIBLIOGRAPHY

REFERENCES

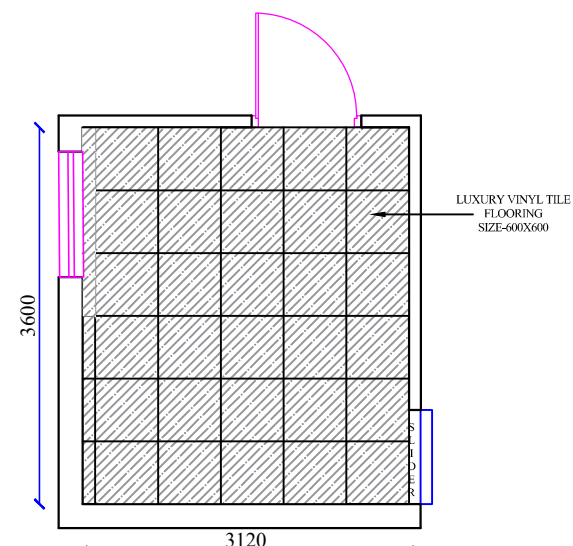
- https://en.wikipedia.org/wiki/Primary_school.
- https://arqa.com/en/_arqanews-archivo-en/gd-goenka-school-in-sarita-vihar.html
- <https://www.archdaily.com/938228/sangam-elementary-school-sferablu-architects>.
- <https://www.designboom.com/architecture/cadence-architects-playfully-assembles-cassata-primary-school>.
- <https://www.archdaily.com/384790/dps-kindergarden-school-khosla-associates>.
- [timesaver building for building types second addition](#).
- [time-saver-standards-for-interior-design-and-space-planning](#)
- [Neuter's Architect Source Of Data Second Addition](#).
- <https://weatherspark.com/y/109930/Average-Weather-in-Orai-India-Year-Round#:~:text=In%20Orai%2C%20the%20wet%20season,it%20is%20hot%20year%20round>.
- https://en.wikipedia.org/wiki/Primary_school.
- *The concept of child-friendly school*. Retrieved from https://www.academia.edu/3768699/the_concept_of_child_friendly_school.

CHAPTER -7

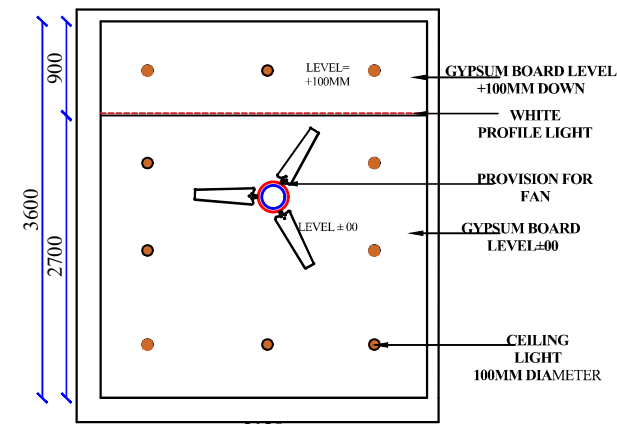
DESIGN DEVELOPMENTS



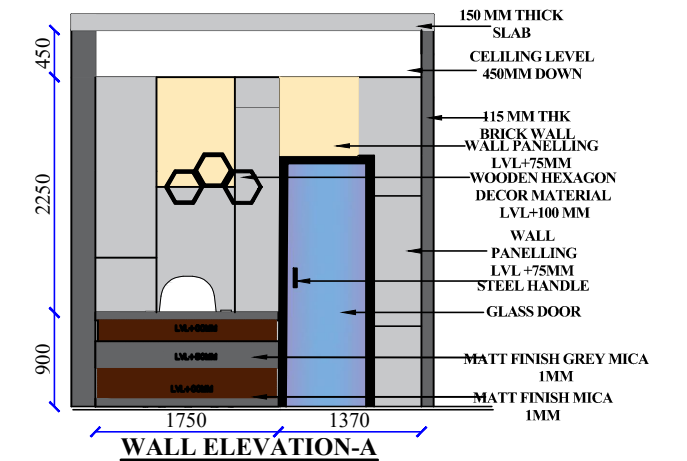
**PRINCIPAL OFFICE
FURNITURE LAYOUT**



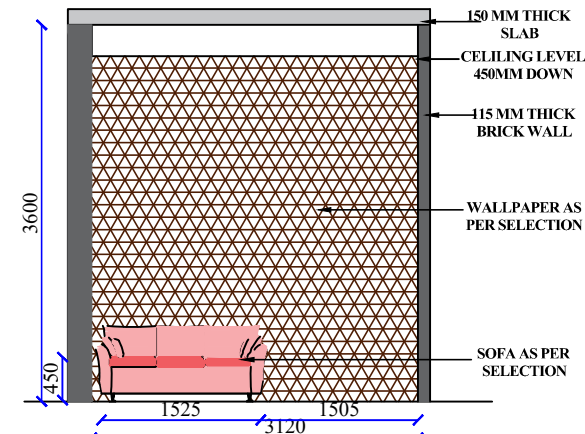
FLOORING PLAN



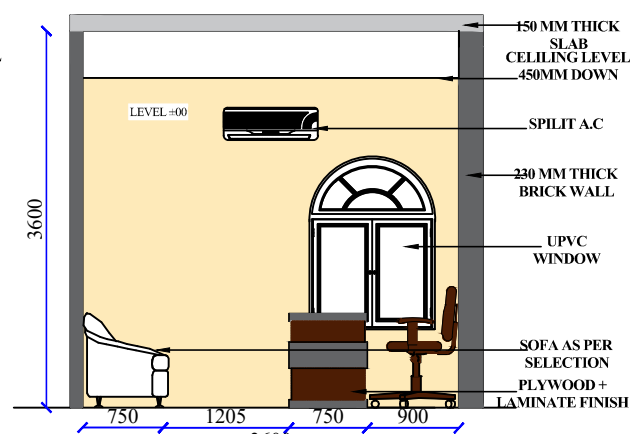
REFLECTED CEILING PLAN



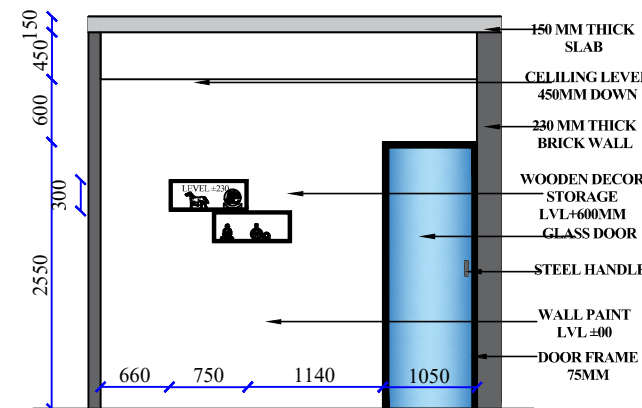
WALL ELEVATION-A



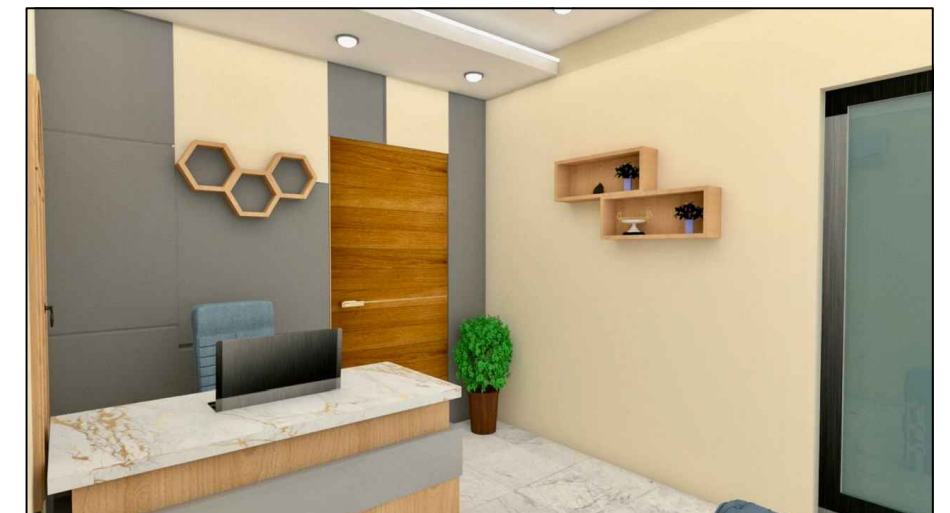
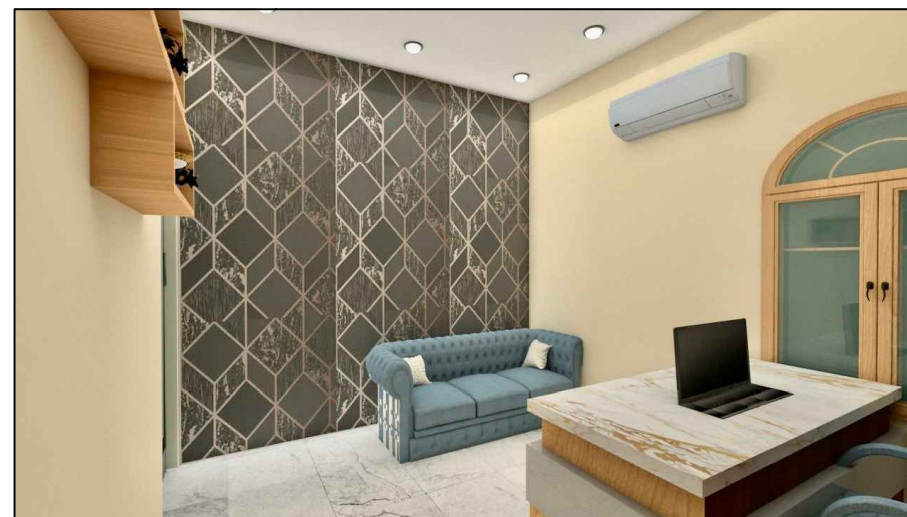
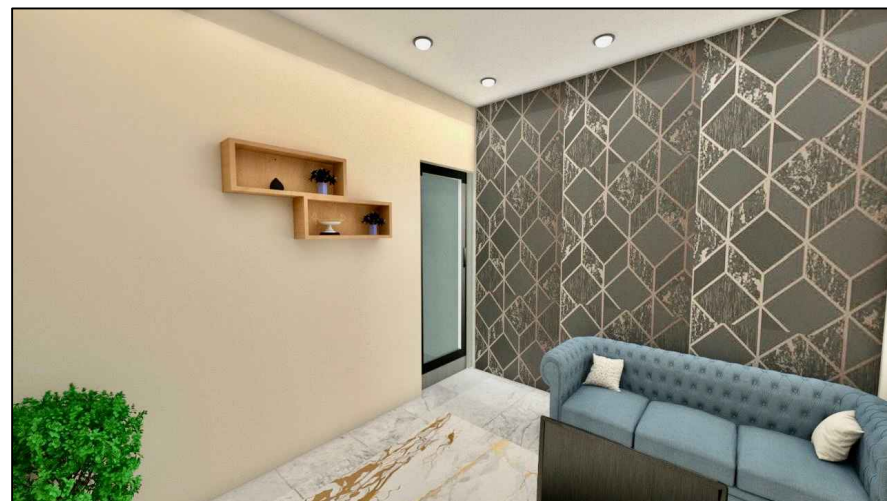
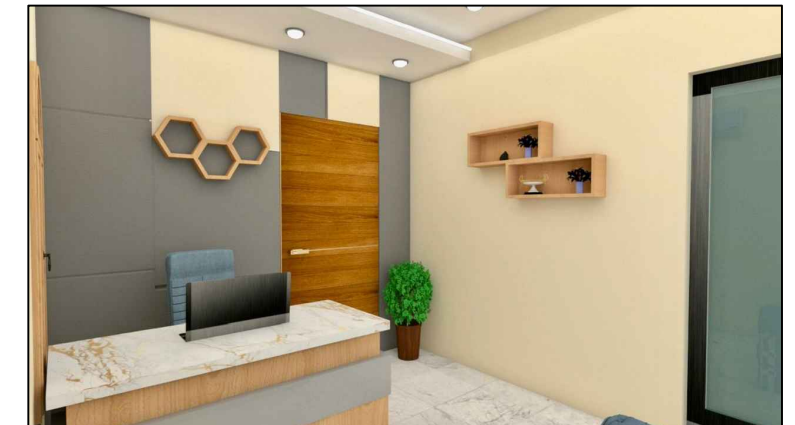
WALL ELEVATION-B



WALL ELEVATION-C



WALL ELEVATION-D



PRINCIPAL OFFICE INTERIOR RENDERED IMAGES

**PROJECT :-
PRE-PRIMARY SCHOOL**

DRG TITLE-	INTERIOR DRAWING
DATE-	28/06/2023
SCALE	
SHEET NO-	10
SIGN	REMARK

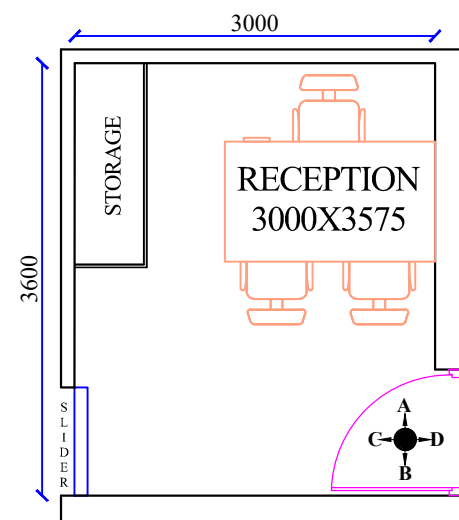
DRAWN BY - RIDDHI CHAUBEY
INTERIOR DESIGN THESIS
B.I.D.-IV YEAR, 8TH SEMESTER
BABU BANARASI DAS
UNIVERSITY, LUCKNOW.UP

THESIS COORDINATOR

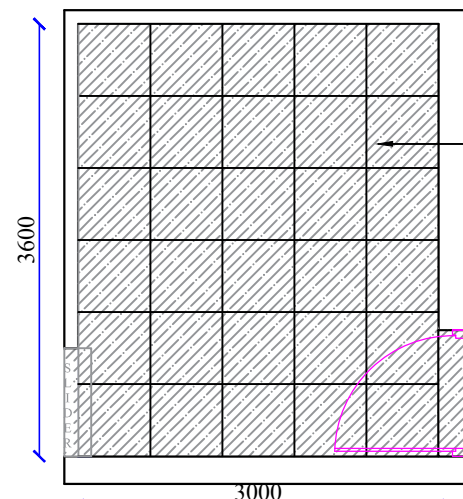
AR. VERSHA VERMA
AR. SHAILESH KUMAR YADAV

THESIS GUIDE

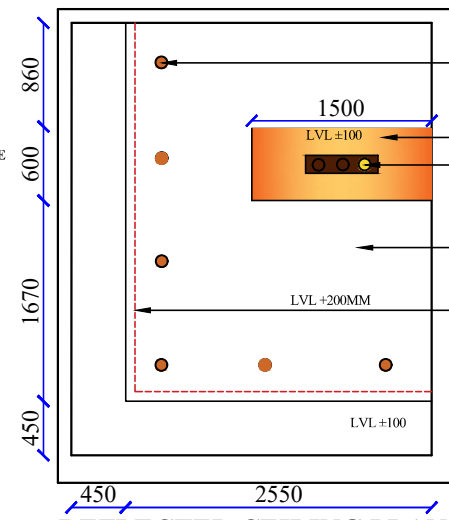
AR. ANSHU RASTOGI



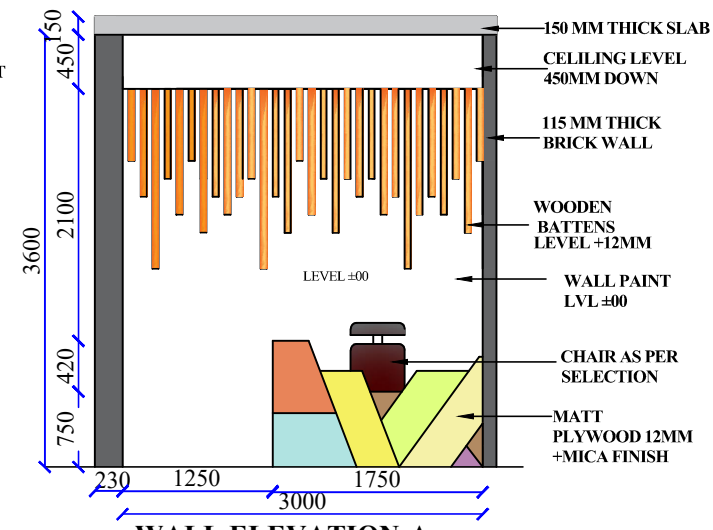
**RECEPTION AREA
FURNITURE LAYOUT**



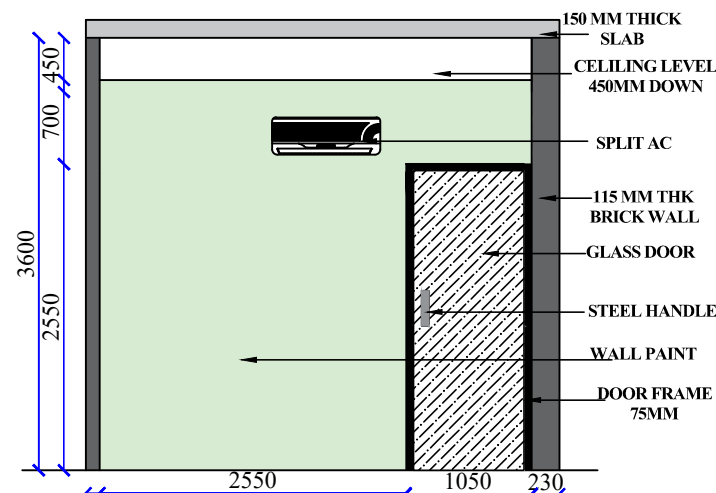
RECEPTION AREA FLOOR PLAN



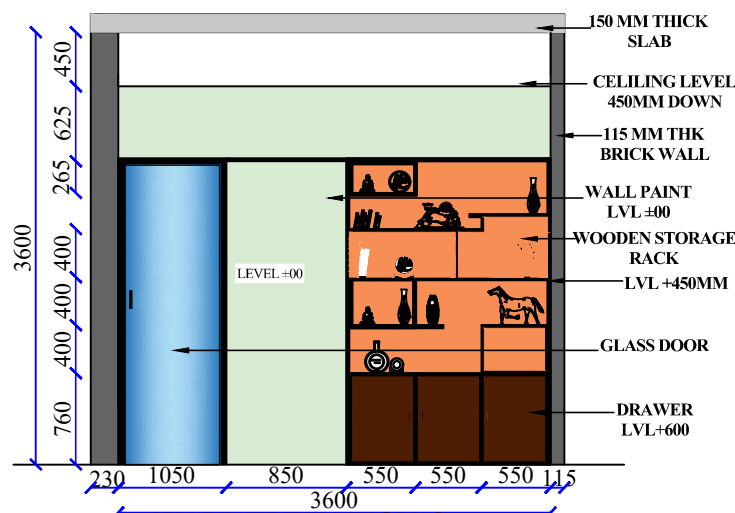
REFLECTED CEILING PLAN



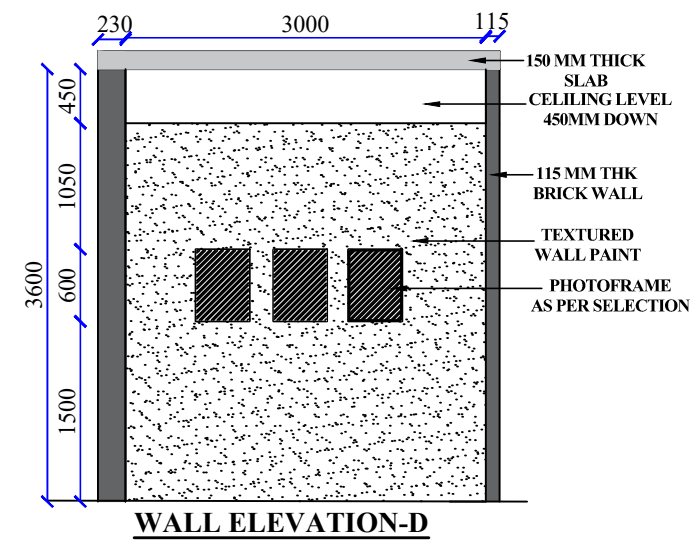
WALL ELEVATION-A



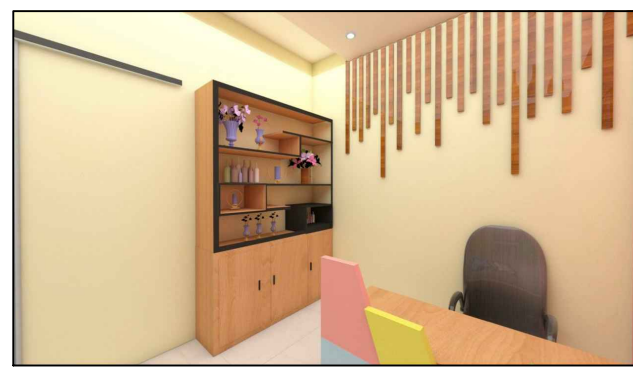
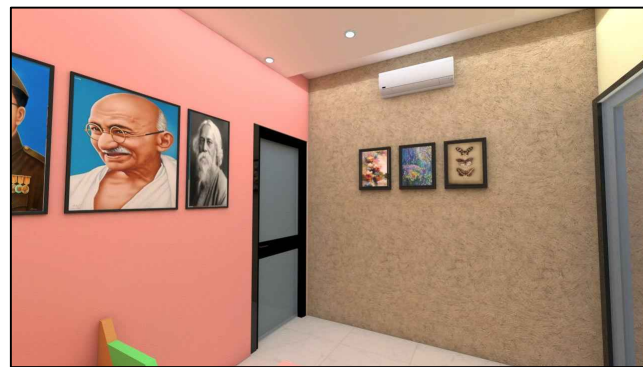
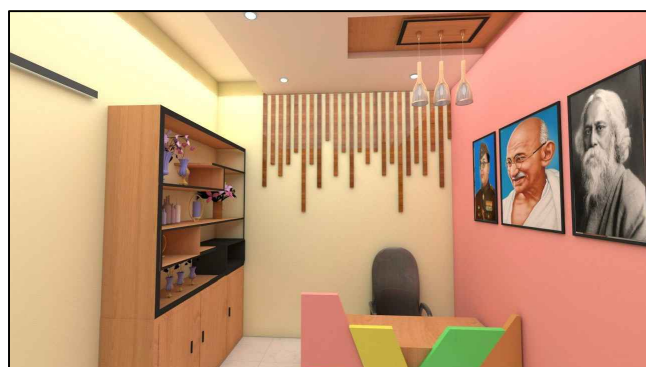
WALL ELEVATION-B



WALL ELEVATION-C



WALL ELEVATION-D



RECEPTION AREA INTERIOR RENDERED IMAGES

**PROJECT :-
PRE-PRIMARY SCHOOL**

DRG TITLE- INTERIOR DRAWING	
DATE-	28/06/2023
SCALE	
SHEET NO-	11
SIGN	REMARK

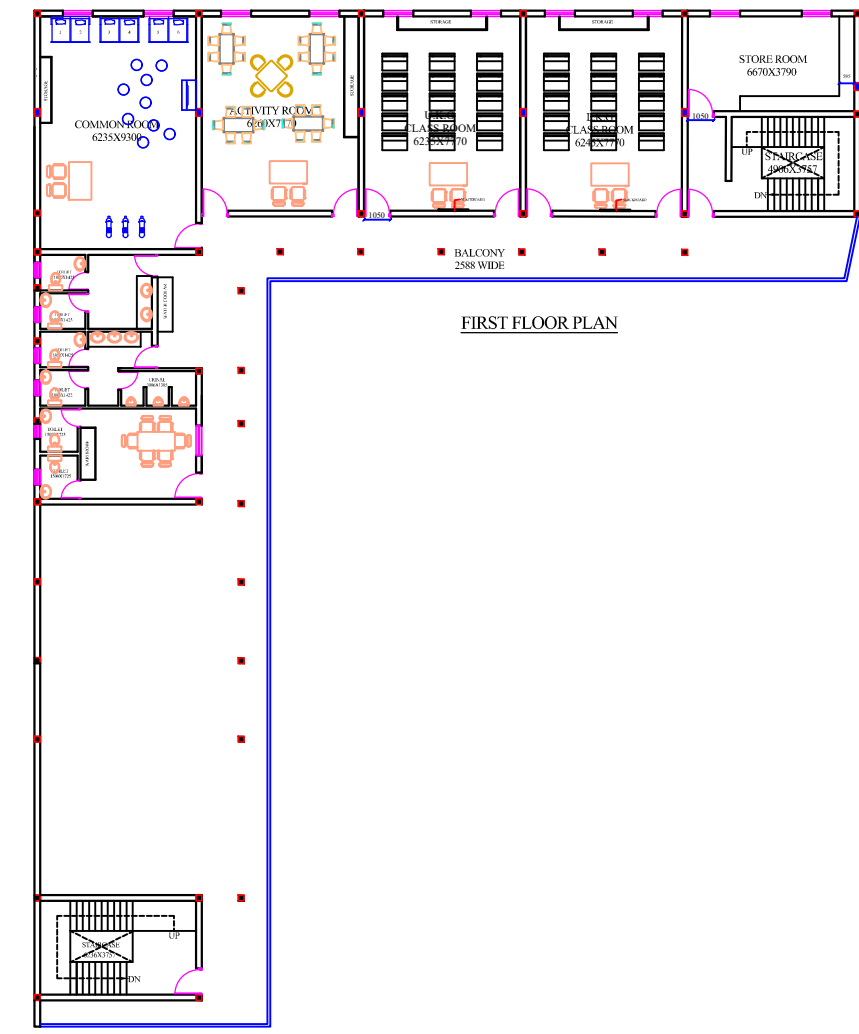
DRAWN BY - RIDDHI CHAUBEY
INTERIOR DESIGN THESIS
B.I.D.-IV YEAR, 8TH SEMESTER
BABU BANARASI DAS
UNIVERSITY, LUCKNOW.UP

THESIS COORDINATOR

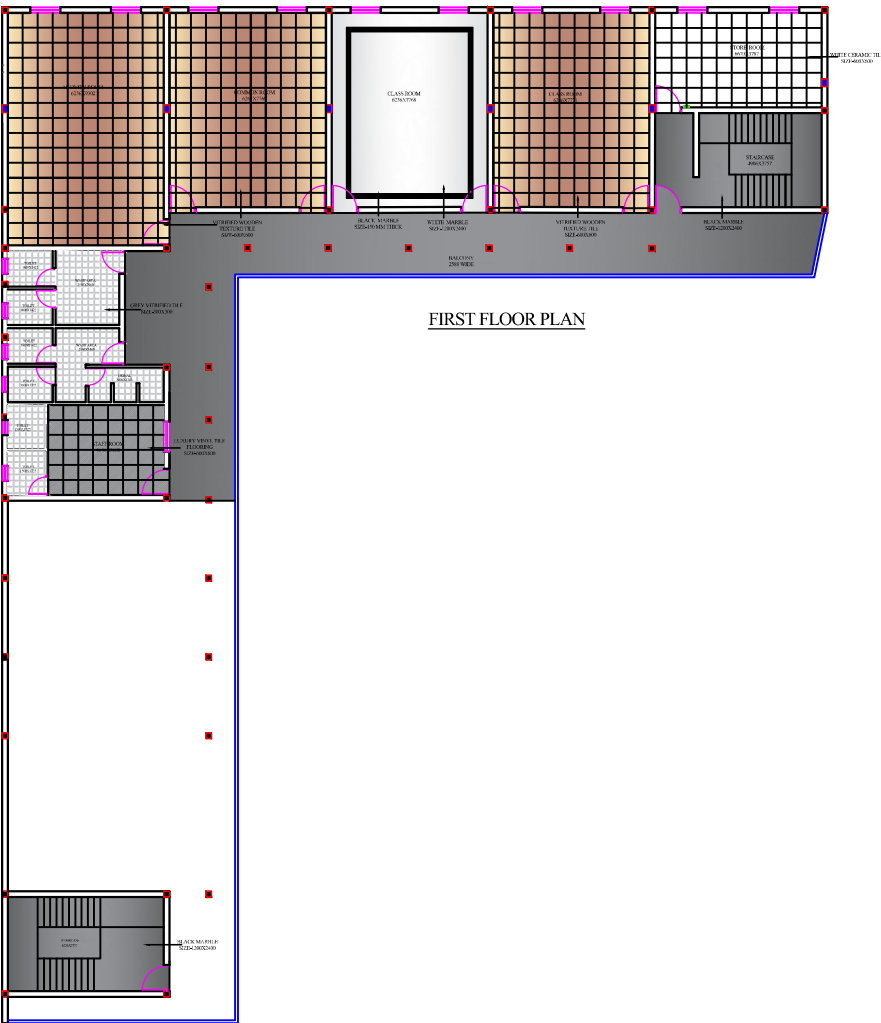
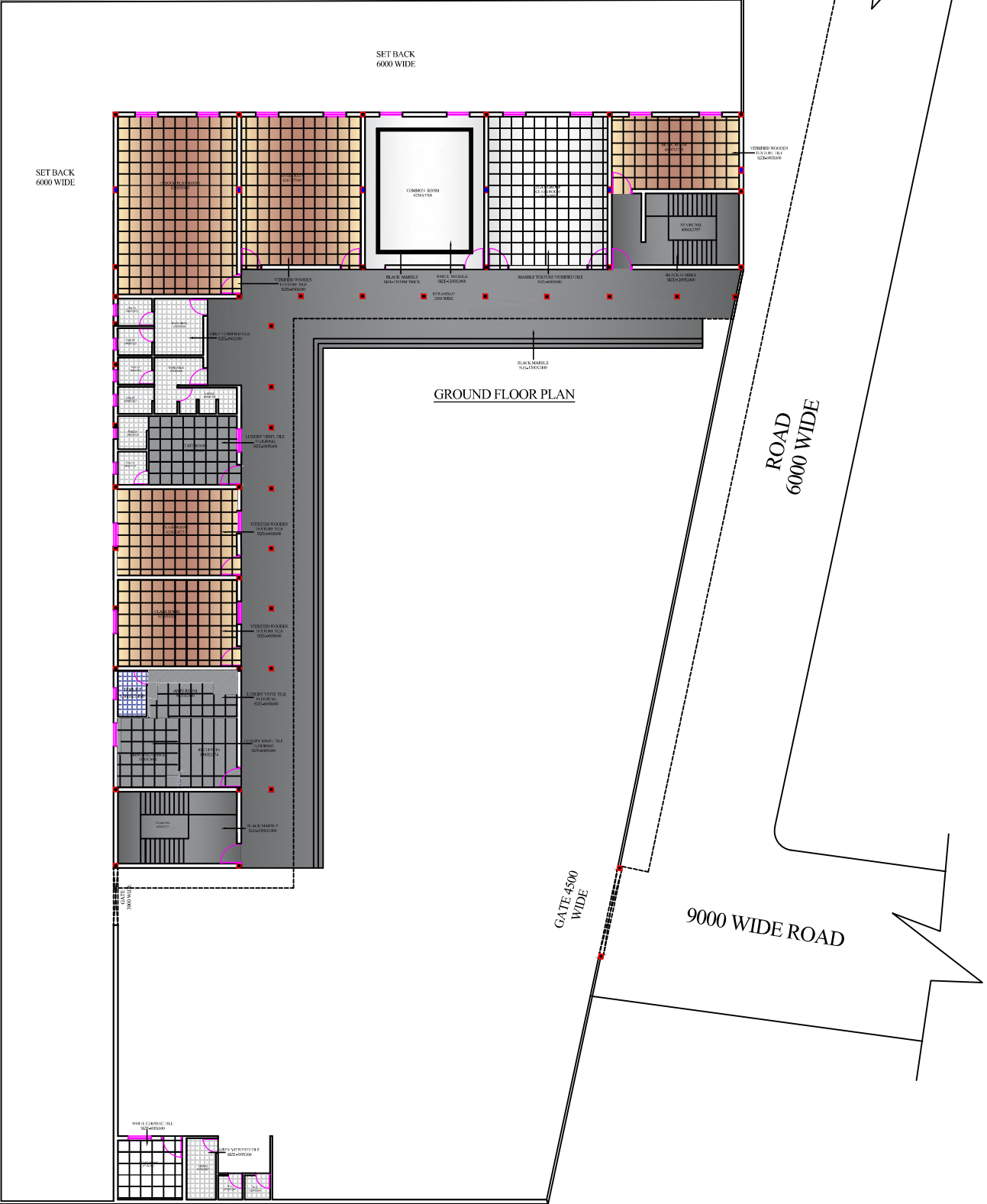
AR. VERSHA VERMA
AR. SHAILESH KUMAR YADAV

THESIS GUIDE

AR. ANSHU RASTOGI



PROJECT :- PRE-PRIMARY SCHOOL	DRG TITLE-		DRAWN BY - RIDDHI CHAUBEY INTERIOR DESIGN THESIS B.I.D.-IV YEAR, 8TH SEMESTER BABU BANARASI DAS UNIVERSITY, LUCKNOW.UP	<u>THESIS COORDINATOR</u> AR. VERSHA VERMA AR. SHAILESH KUMAR YADAV <u>THESIS GUIDE</u> AR. ANSHU RASTOGI
	DATE-	28/06/2023		
	SCALE			
	SHEET NO-	01		
	SIGN	REMARK		

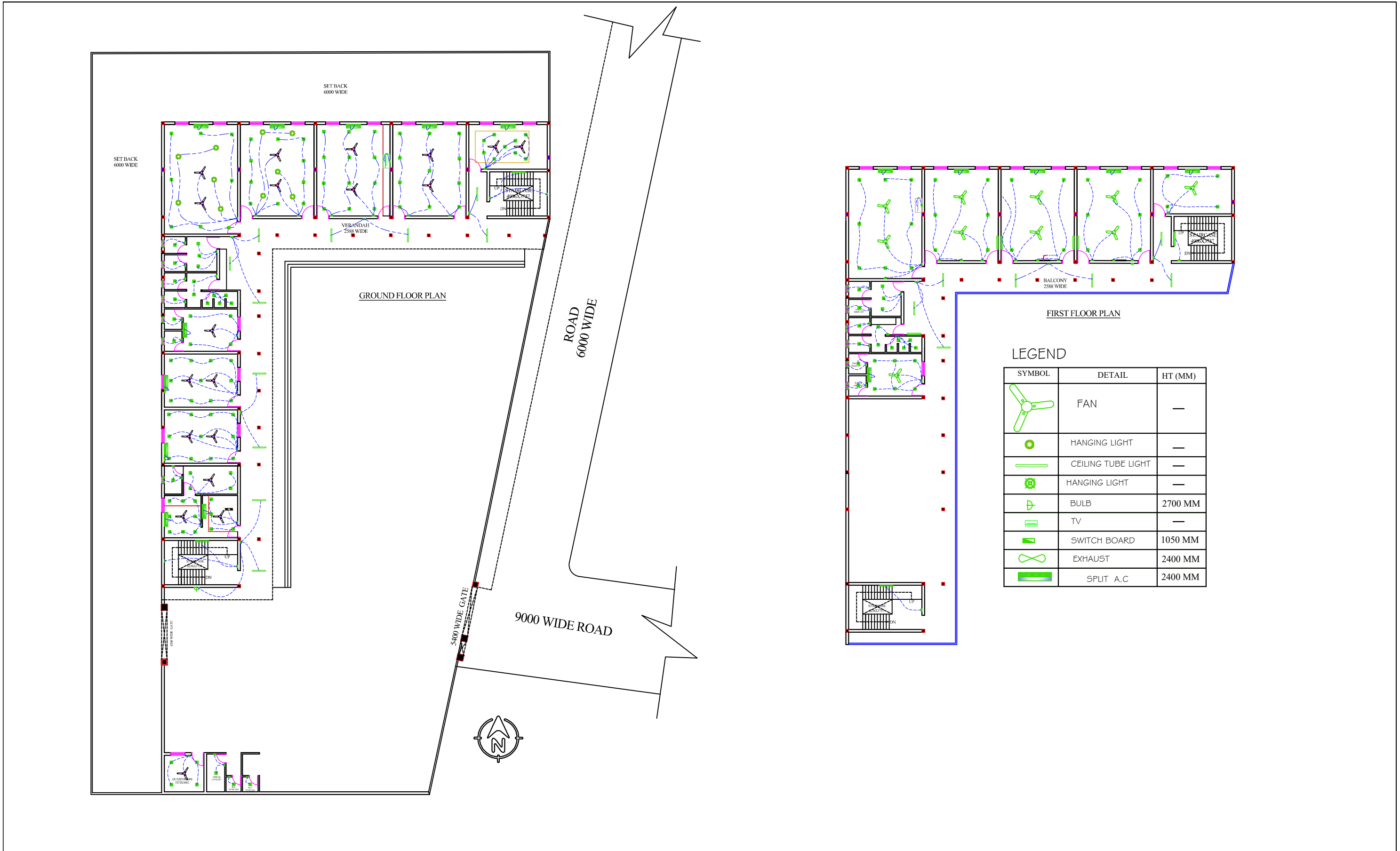


**PROJECT :-
PRE-PRIMARY SCHOOL**

DRG TITLE- FLOORING PLAN	
DATE-	28/06/2023
SCALE	
SHEET NO-	02
SIGN	REMARK

DRAWN BY - RIDDHI CHAUBEY
INTERIOR DESIGN THESIS
B.I.D.-IV YEAR, 8TH SEMESTER
BABU BANARASI DAS
UNIVERSITY, LUCKNOW.UP

THESIS COORDINATOR
AR. VERSHA VERMA
AR. SHAILESH KUMAR YADAV
THESIS GUIDE
AR. ANSHU RASTOGI

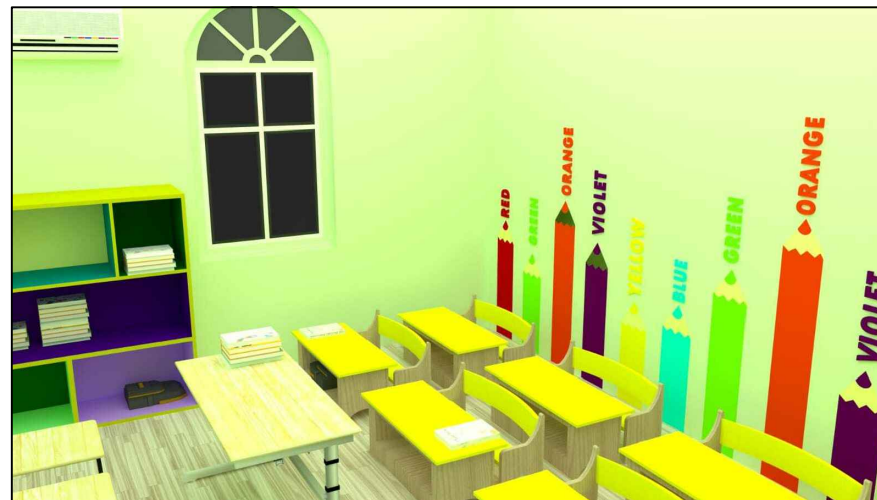
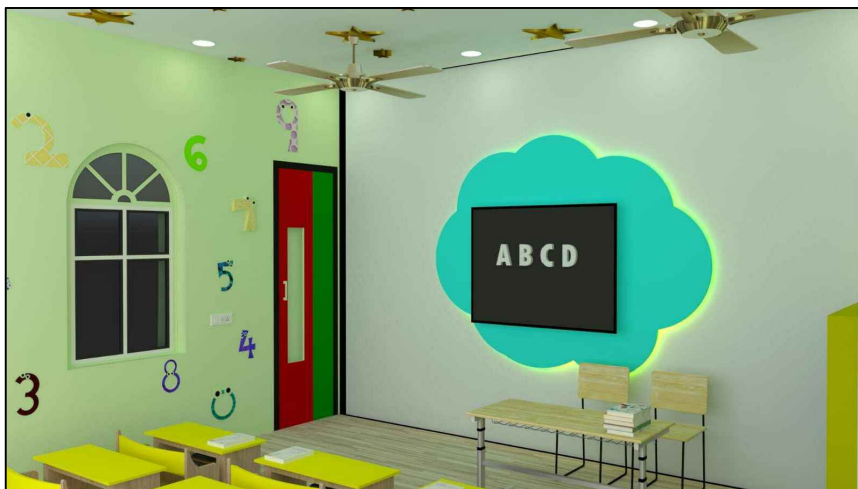
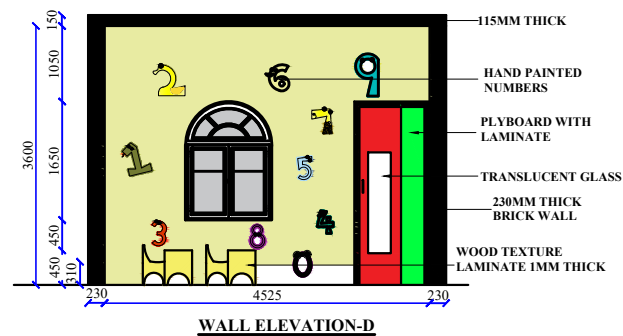
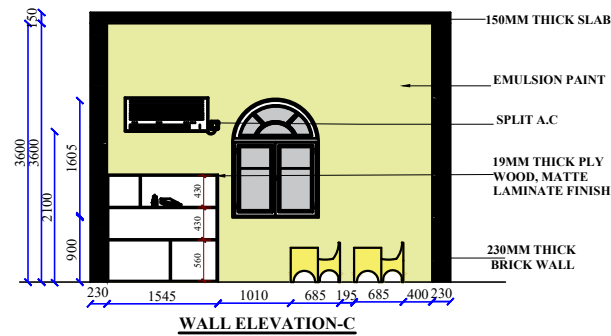
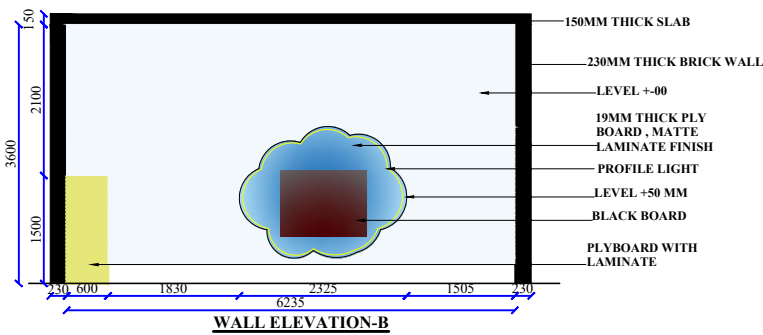
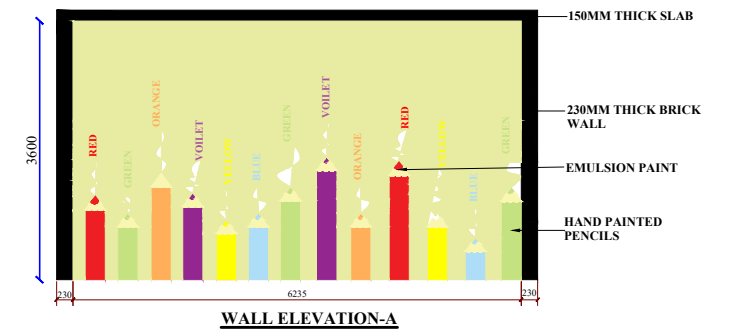
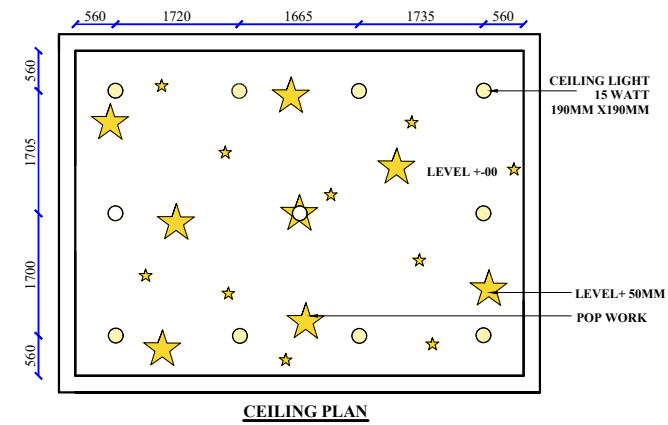
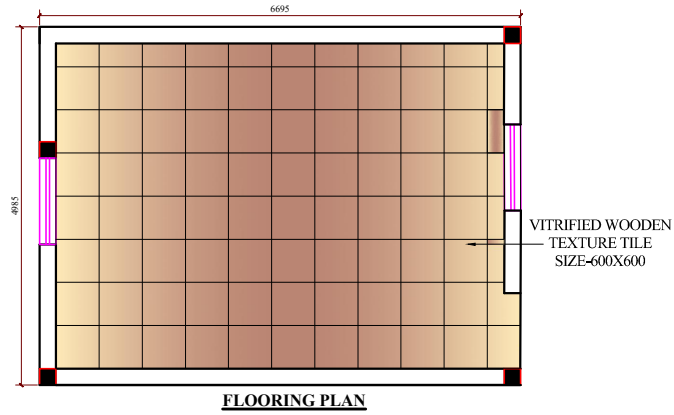
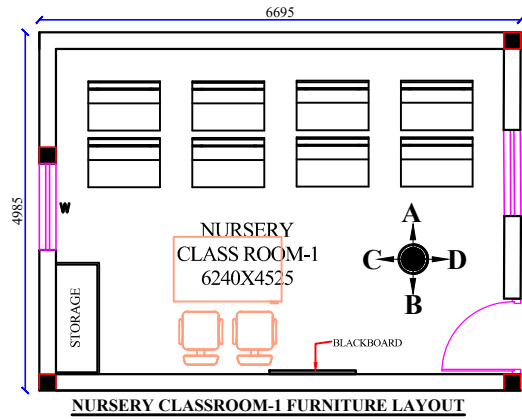


**PROJECT :-
PRE-PRIMARY SCHOOL**

DRG TITLE- ELECTRICAL LAYOUT	
DATE-	28/06/2023
SCALE	
SHEET NO-	03
SIGN	REMARK

DRAWN BY - RIDDHI CHAUBEY
INTERIOR DESIGN THESIS
B.I.D.-IV YEAR, 8TH SEMESTER
BABU BANARASI DAS
UNIVERSITY, LUCKNOW.UP

THESIS COORDINATOR
AR. VERSHA VERMA
AR. SHAILESH KUMAR YADAV
THESIS GUIDE
AR. ANSHU RASTOGI



NURSERY CLASSROOM-1 INTERIOR RENDERED IMAGES

PROJECT :- PRE-PRIMARY SCHOOL

DRG TITLE- INTERIOR DRAWING	
DATE-	28/06/2023
SCALE	
SHEET NO-	04
SIGN	REMARK

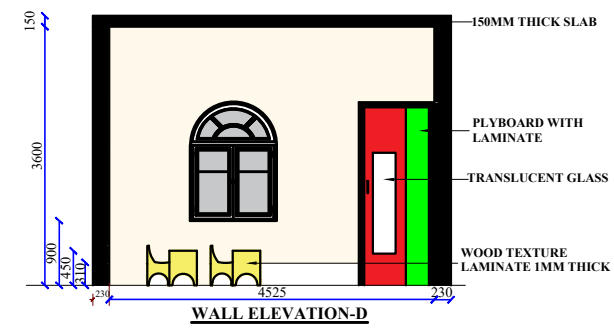
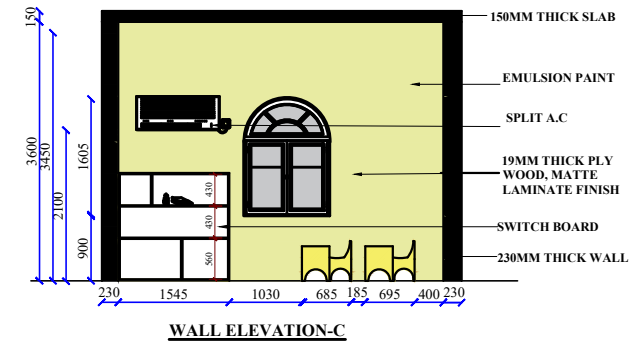
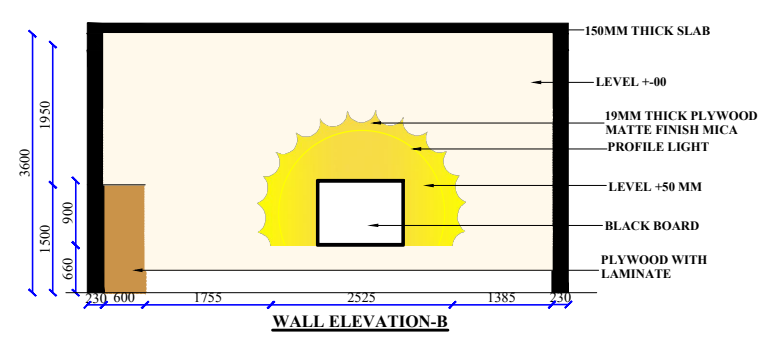
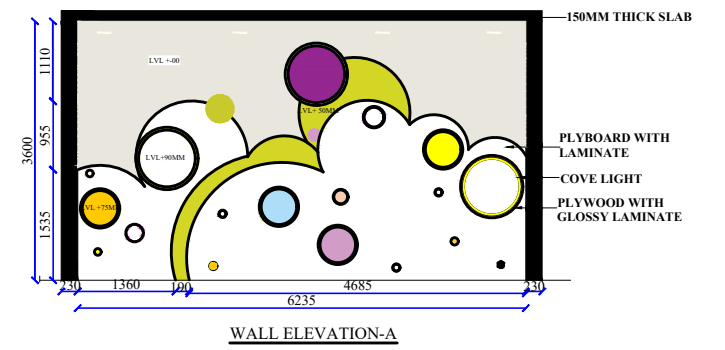
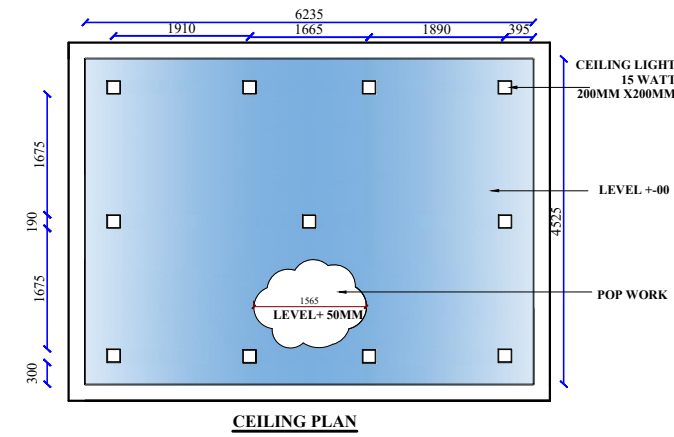
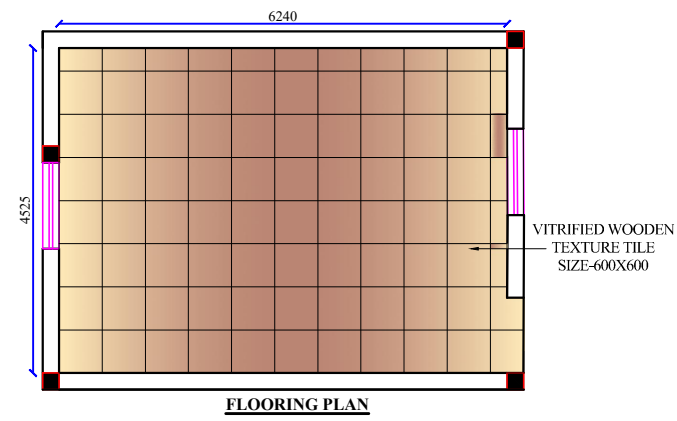
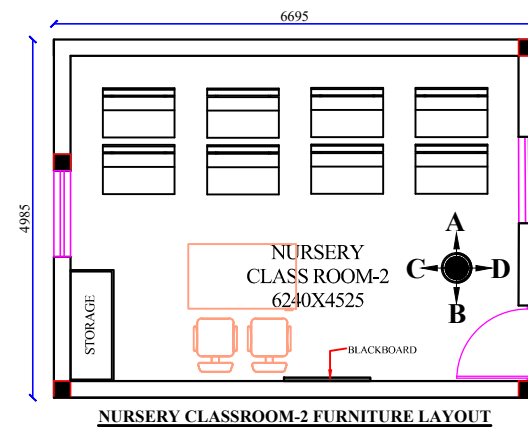
DRAWN BY - RIDDHI CHAUBEY
INTERIOR DESIGN THESIS
 B.I.D.-IV YEAR, 8TH SEMESTER
 BABU BANARASI DAS
 UNIVERSITY, LUCKNOW.UP

THESIS COORDINATOR

AR. VERSHA VERMA
AR. SHAILESH KUMAR YADAV

THESIS GUIDE

AR. ANSHU RASTOGI



NURSARY CLASSROOM-2 INTERIOR RENDERED IMAGES

**PROJECT :-
PRE-PRIMARY SCHOOL**

DRG TITLE- INTERIOR DRAWING	
DATE-	28/06/2023
SCALE	
SHEET NO-	05
SIGN	REMARK

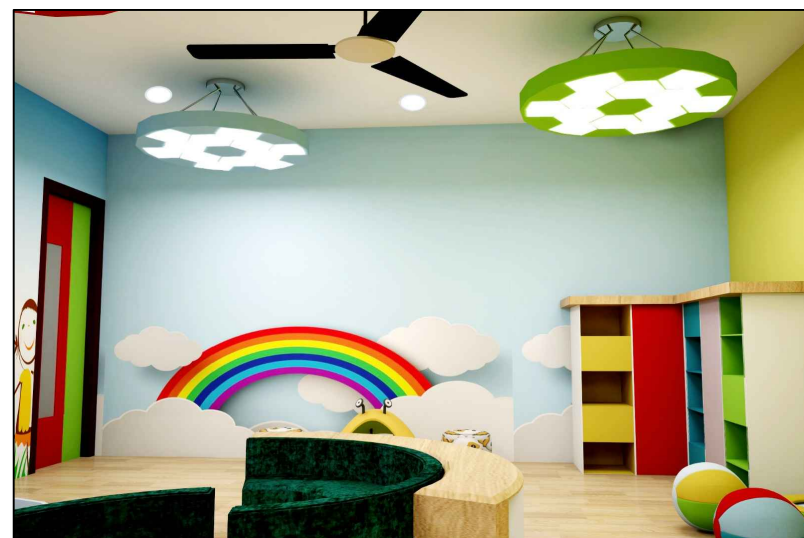
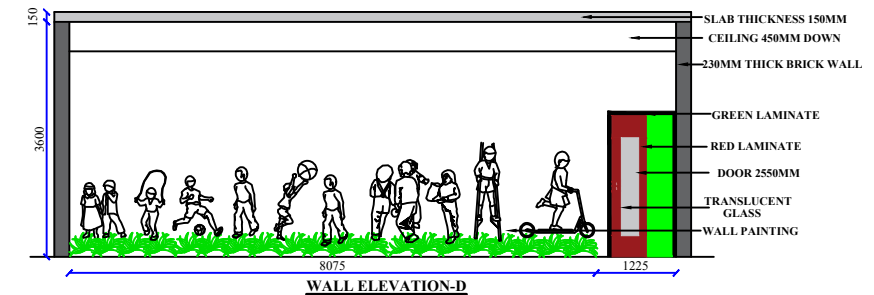
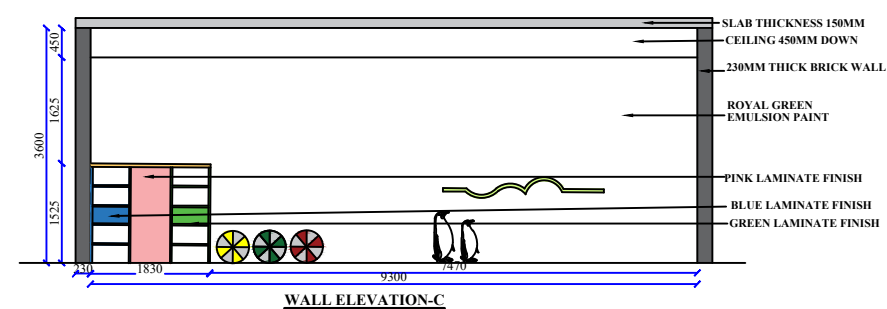
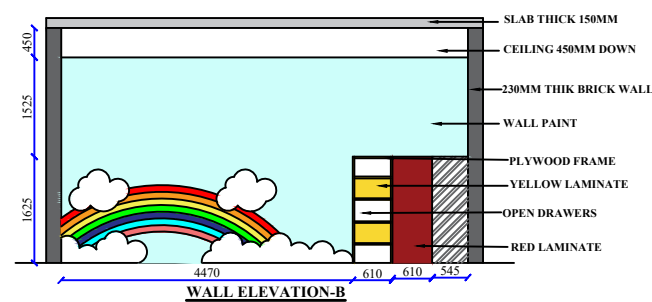
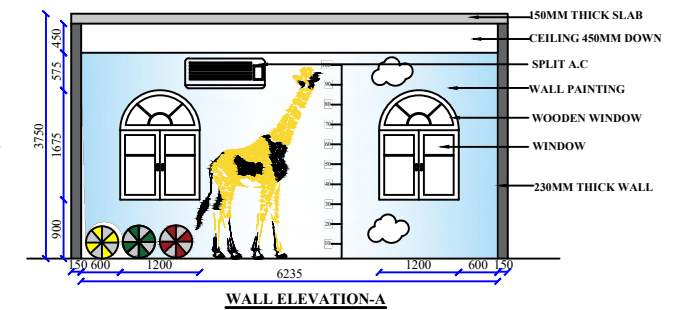
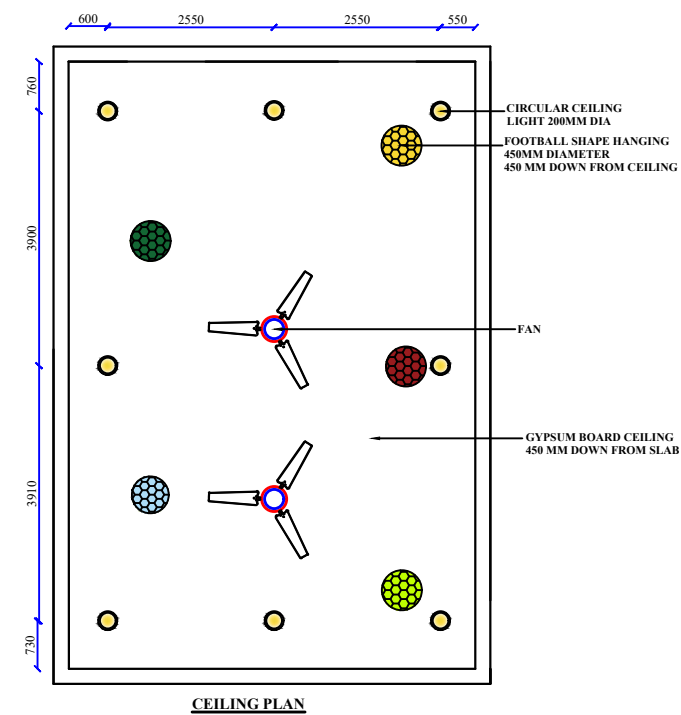
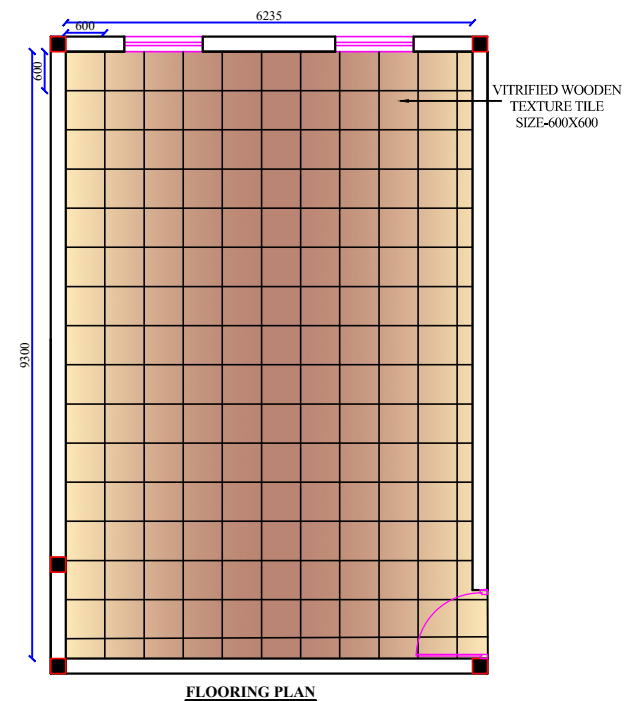
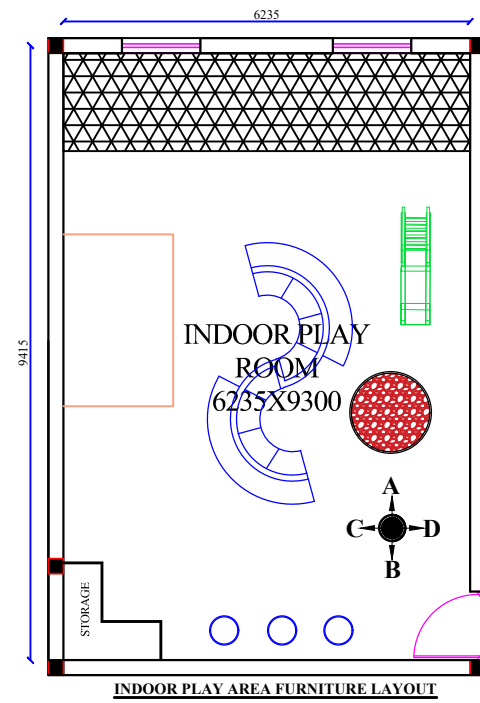
DRAWN BY - RIDDHI CHAUBEY
INTERIOR DESIGN THESIS
 B.I.D.-IV YEAR, 8TH SEMESTER
 BABU BANARASI DAS
 UNIVERSITY, LUCKNOW.UP

THESIS COORDINATOR

AR. VERSHA VERMA
AR. SHAILESH KUMAR YADAV

THESIS GUIDE

AR. ANSHU RASTOGI



PROJECT :- PRE-PRIMARY SCHOOL

DRG TITLE- INTERIOR DRAWING	
DATE-	28/06/2023
SCALE	
SHEET NO-	06
SIGN	REMARK

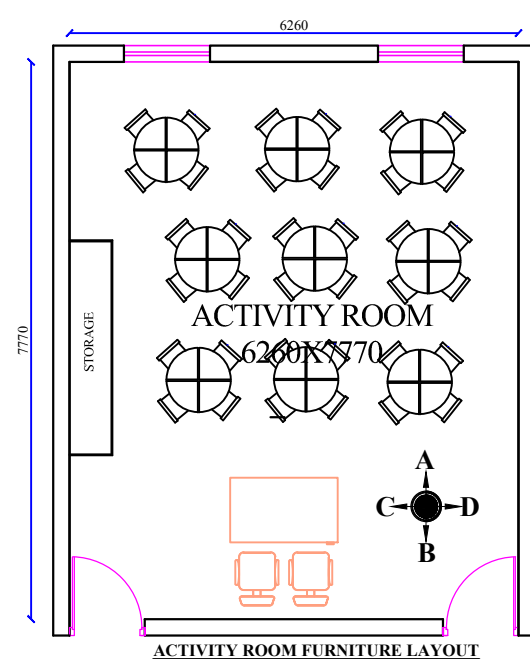
DRAWN BY - RIDDHI CHAUBEY
INTERIOR DESIGN THESIS
B.I.D.-IV YEAR, 8TH SEMESTER
BABU BANARASI DAS
UNIVERSITY, LUCKNOW.UP

THESIS COORDINATOR

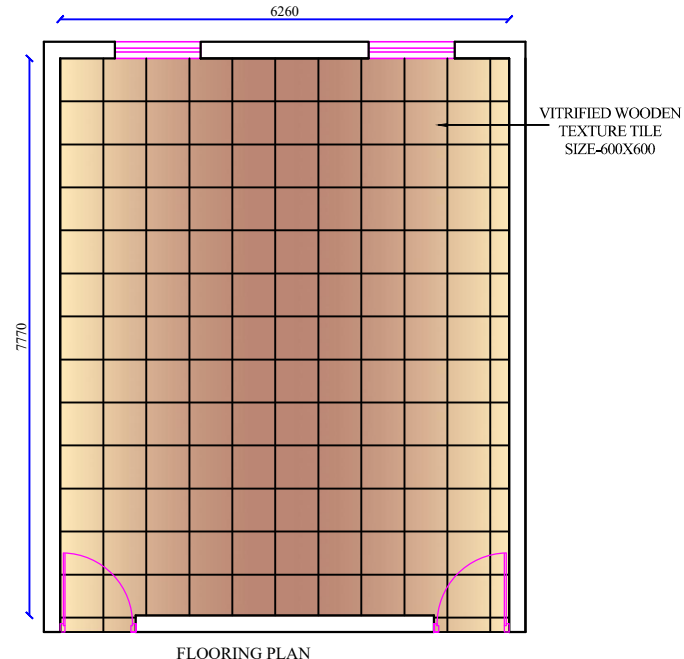
AR. VERSHA VERMA
AR. SHAILESH KUMAR YADAV

THESIS GUIDE

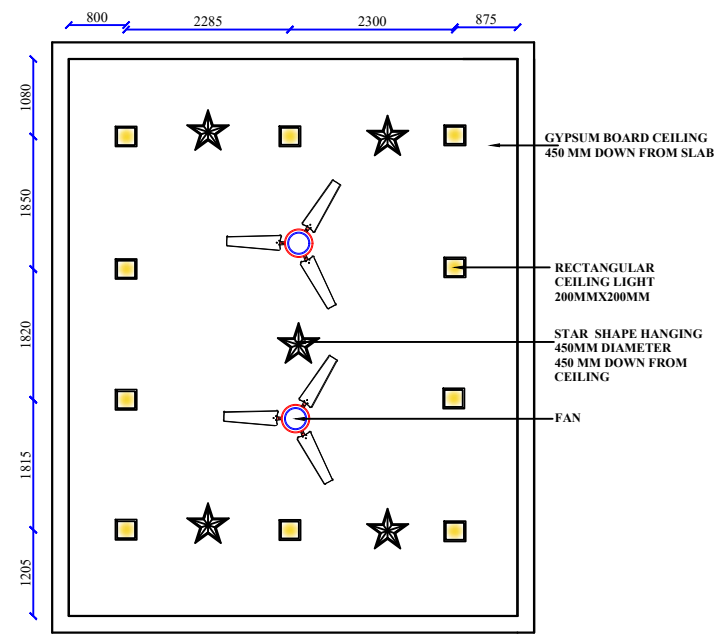
AR. ANSHU RASTOGI



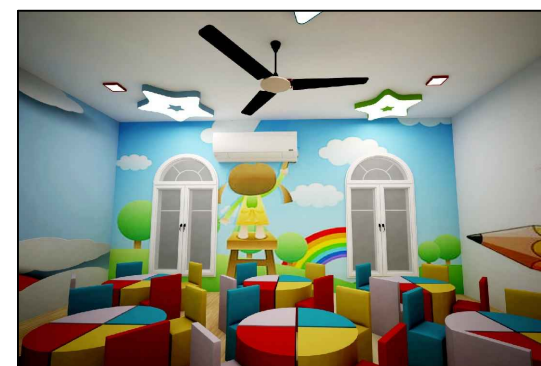
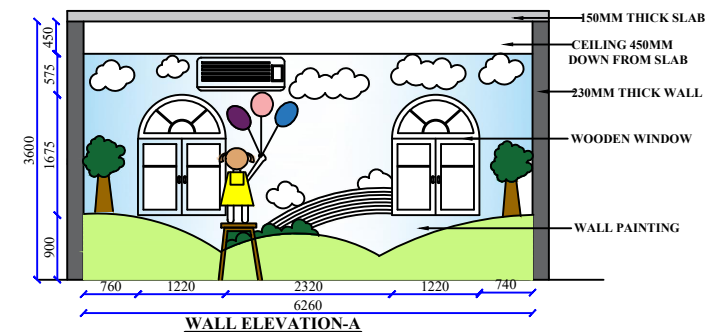
ACTIVITY ROOM FURNITURE LAYOUT



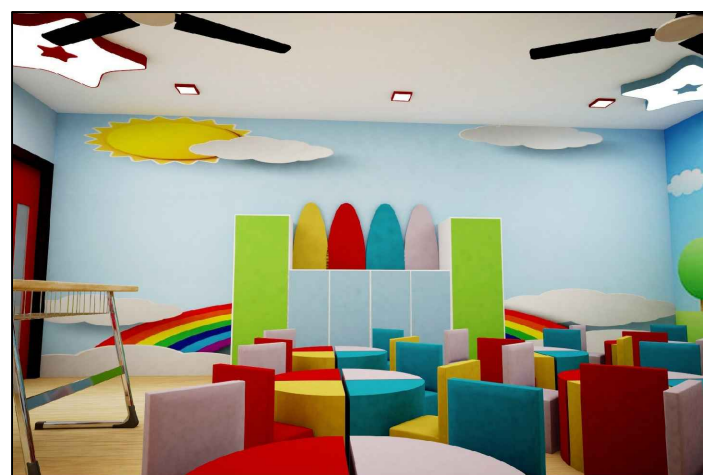
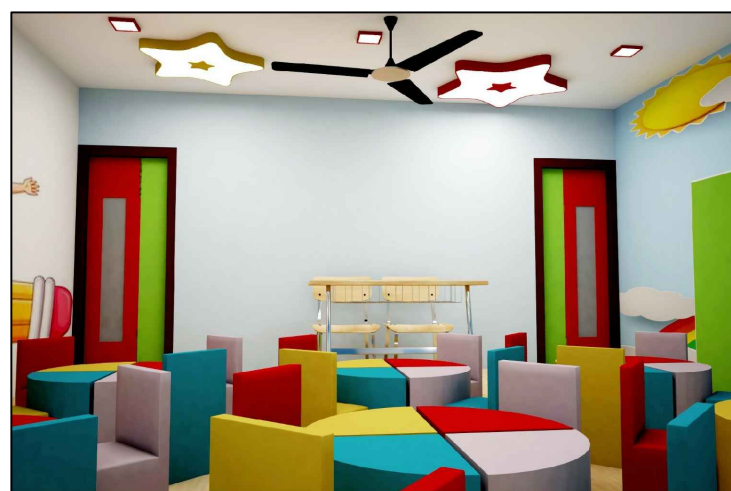
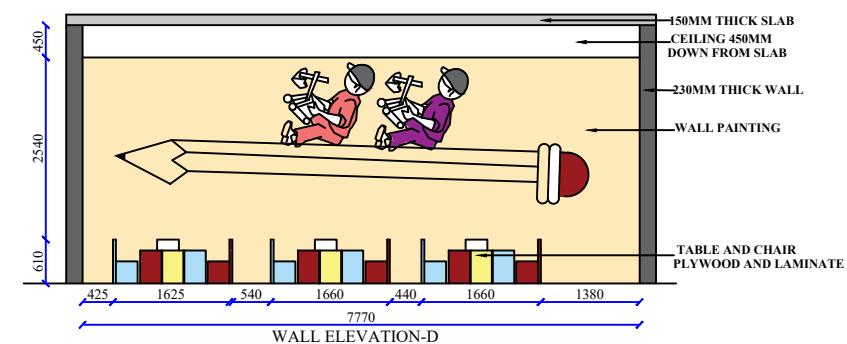
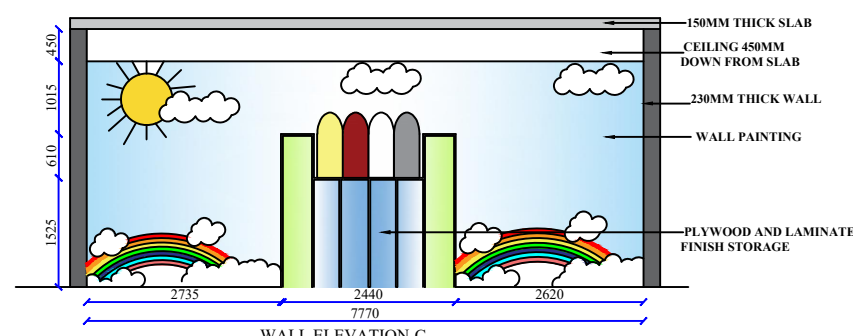
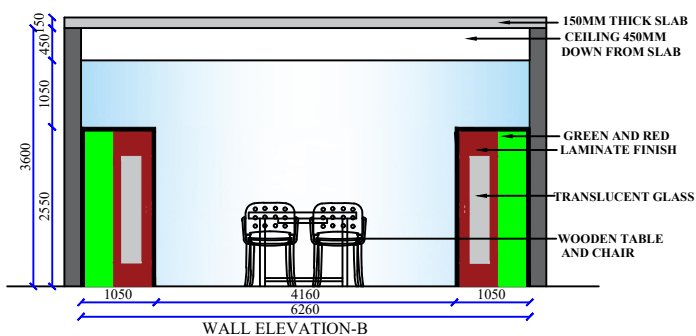
FLOORING PLAN



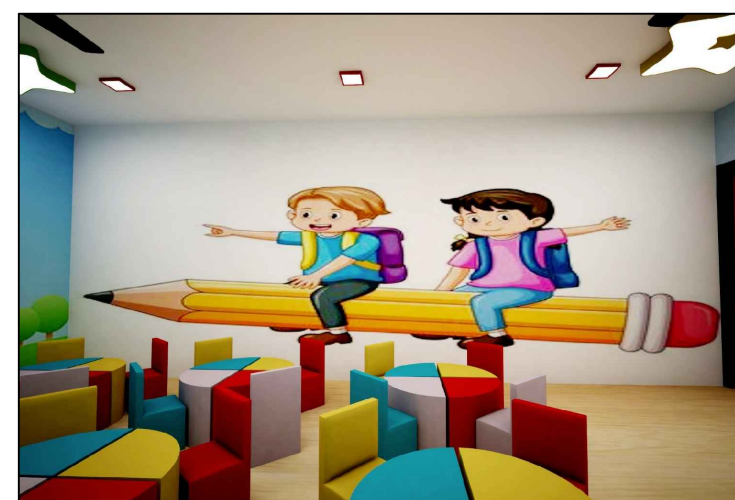
CEILING PLAN



ACTIVITY ROOM INTERIOR RENDERED IMAGES



ACTIVITY ROOM INTERIOR RENDERED IMAGES



PROJECT :- PRE-PRIMARY SCHOOL

DRG TITLE- INTERIOR DRAWING	
DATE-	28/06/2023
SCALE	
SHEET NO-	07
SIGN	REMARK

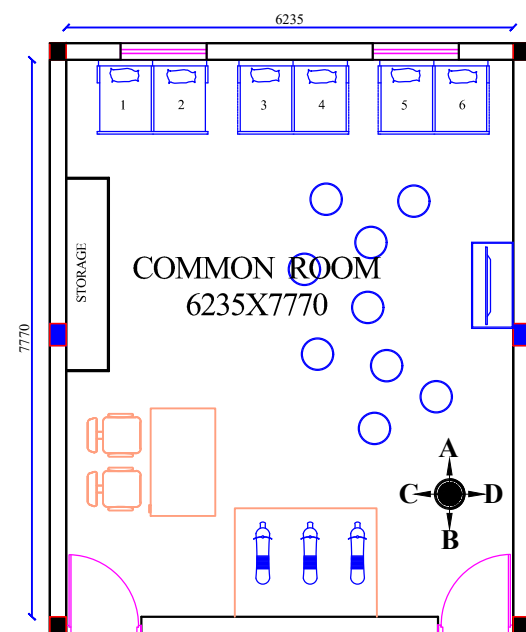
DRAWN BY - RIDDHI CHAUBEY
INTERIOR DESIGN THESIS
B.I.D.-IV YEAR, 8TH SEMESTER
BABU BANARASI DAS
UNIVERSITY, LUCKNOW.UP

THESIS COORDINATOR

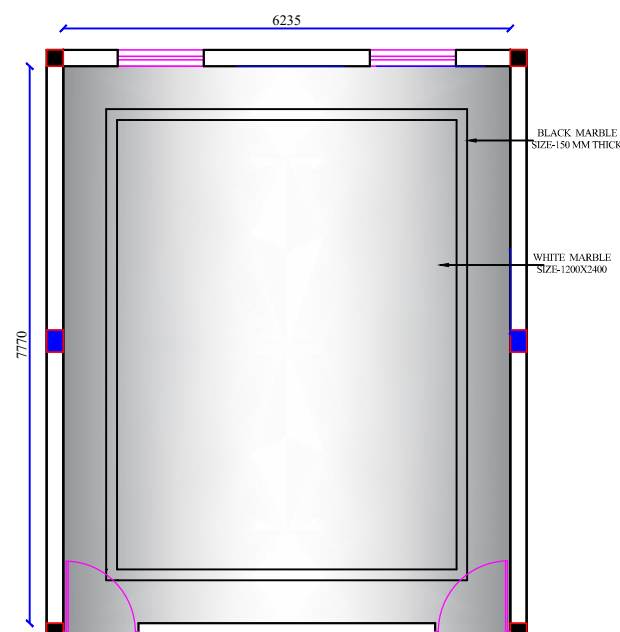
AR. VERSHA VERMA
AR. SHAILESH KUMAR YADAV

THESIS GUIDE

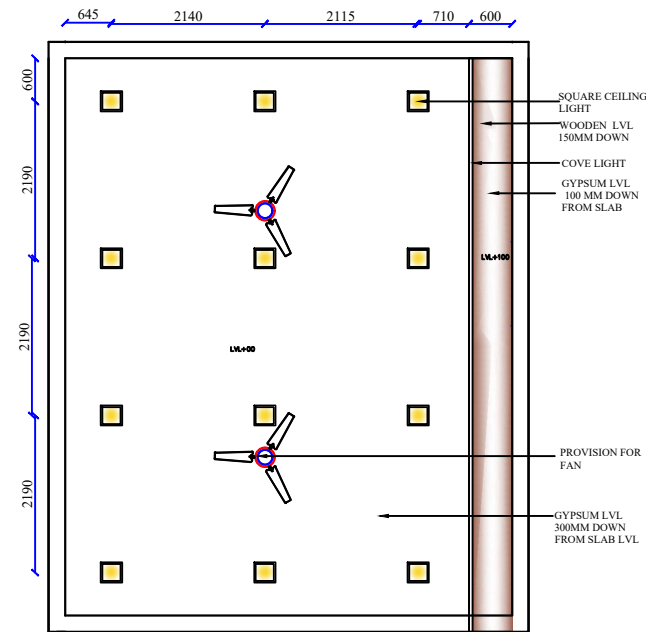
AR. ANSHU RASTOGI



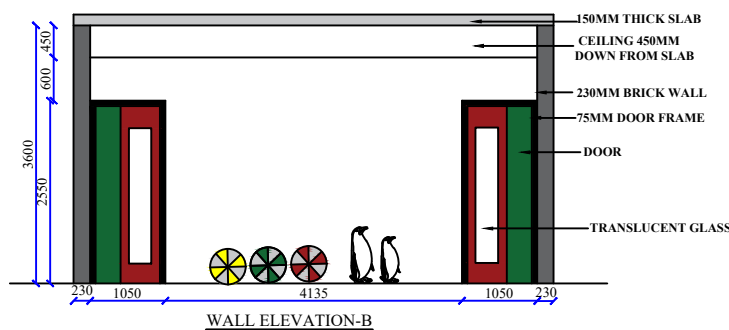
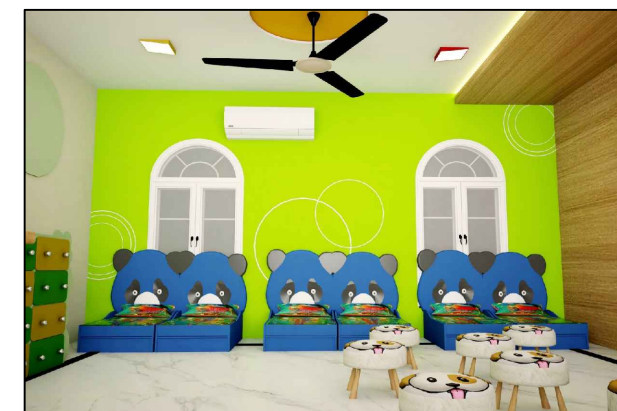
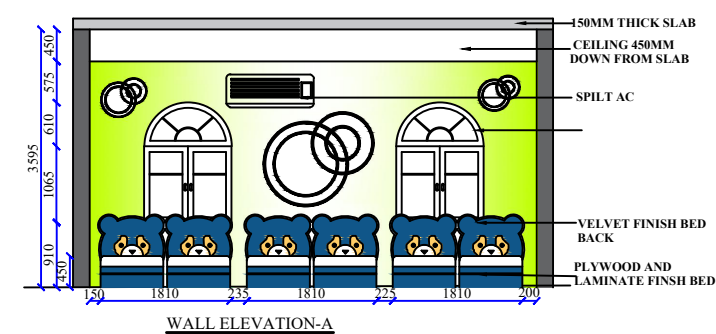
COMMON ROOM FURNITURE LAYOUT



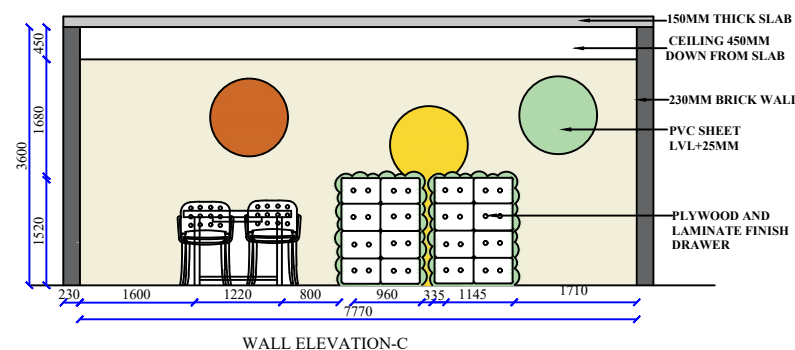
FLOORING PLAN



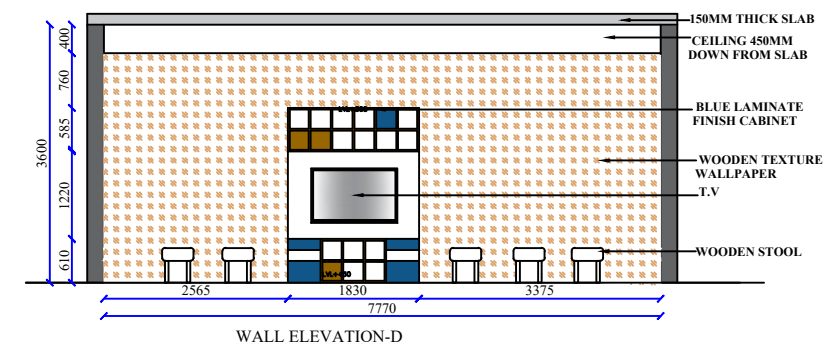
CEILING PLAN



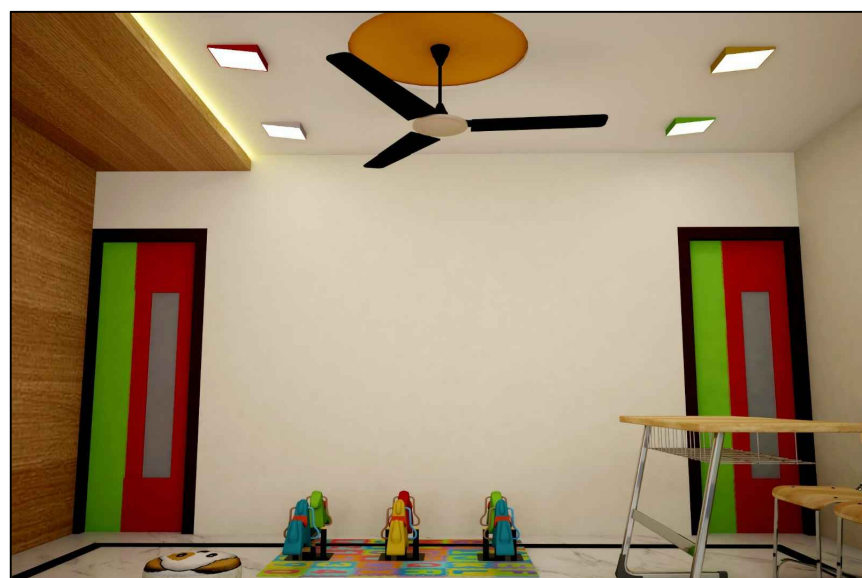
WALL ELEVATION-B



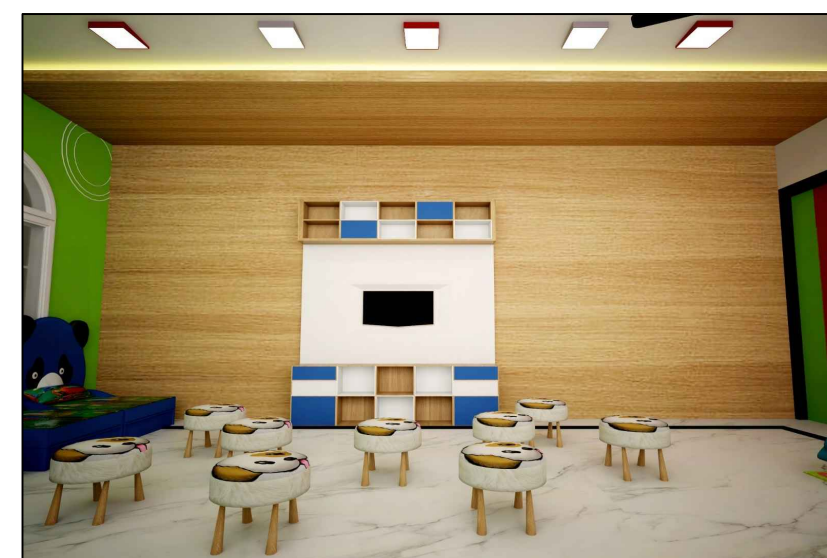
WALL ELEVATION-C



WALL ELEVATION-D



COMMON ROOM INTERIOR RENDERED IMAGES



PROJECT :- PRE-PRIMARY SCHOOL

DRG TITLE- INTERIOR DRAWING	
DATE-	28/06/2023
SCALE	
SHEET NO-	08
SIGN	REMARK

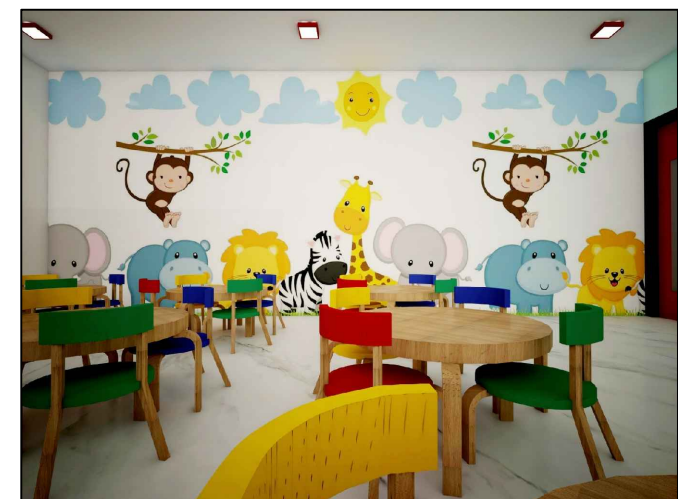
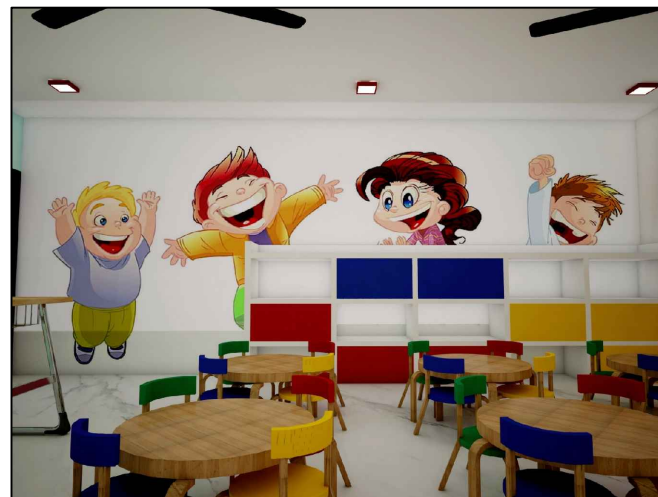
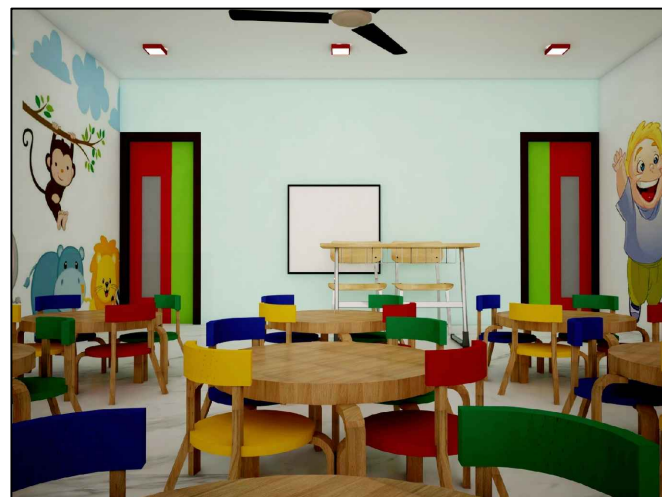
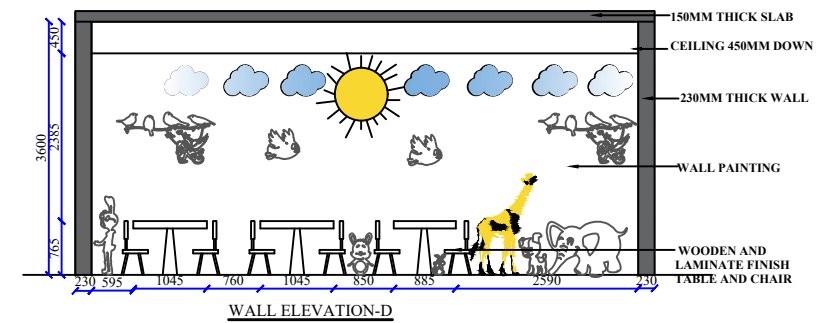
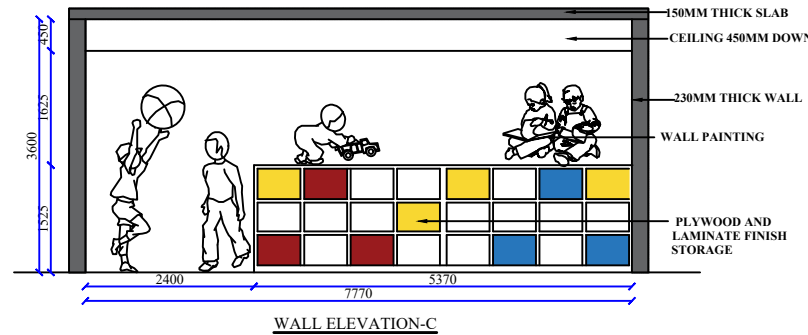
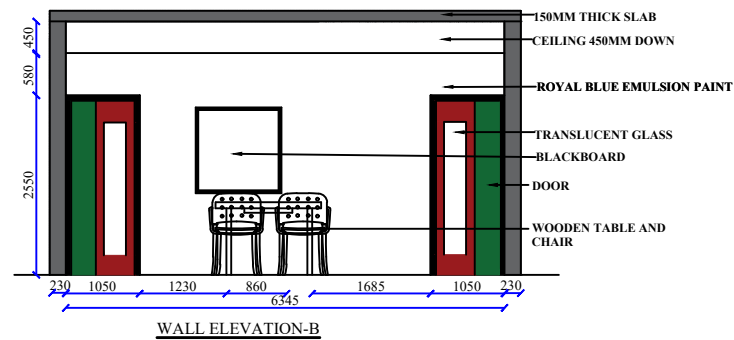
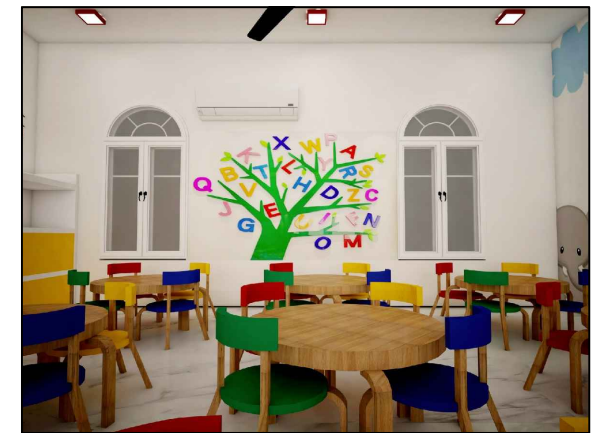
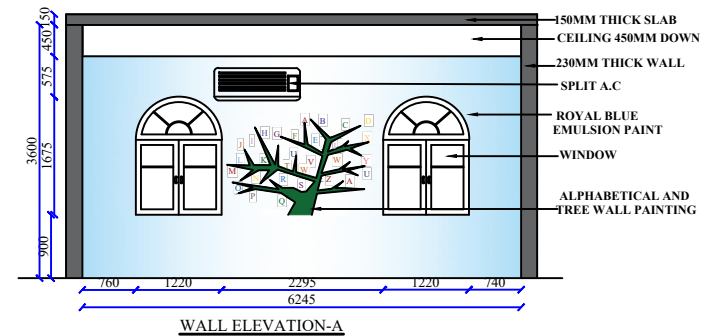
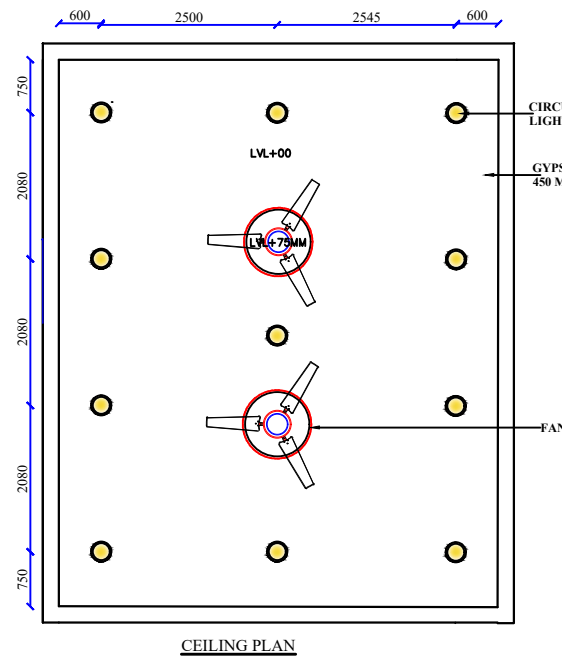
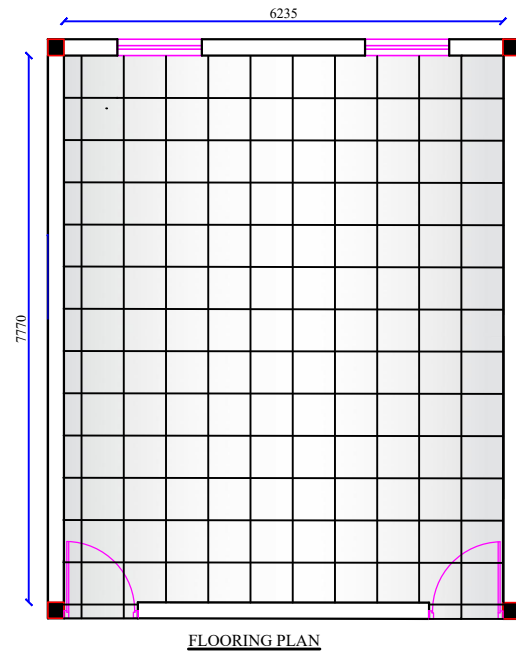
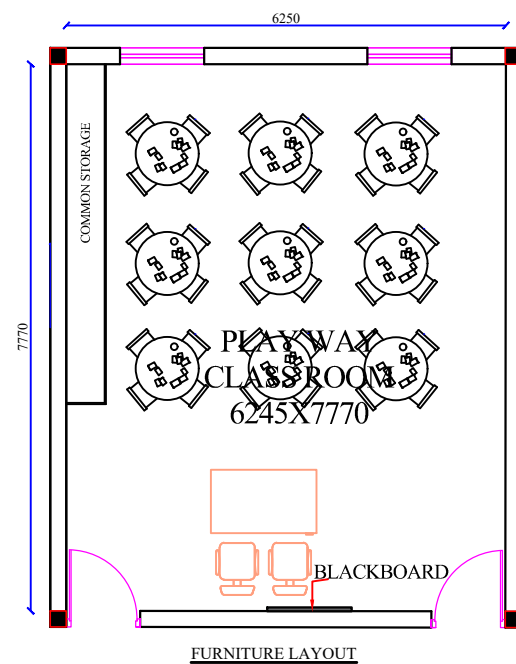
DRAWN BY - RIDDHI CHAUBEY
INTERIOR DESIGN THESIS
B.I.D.-IV YEAR, 8TH SEMESTER
BABU BANARASI DAS
UNIVERSITY, LUCKNOW.UP

THESIS COORDINATOR

AR. VERSHA VERMA
AR. SHAILESH KUMAR YADAV

THESIS GUIDE

AR. ANSHU RASTOGI



**PROJECT :-
PRE-PRIMARY SCHOOL**

DRG TITLE- INTERIOR DRAWING	
DATE-	28/06/2023
SCALE	
SHEET NO-	09
SIGN	REMARK

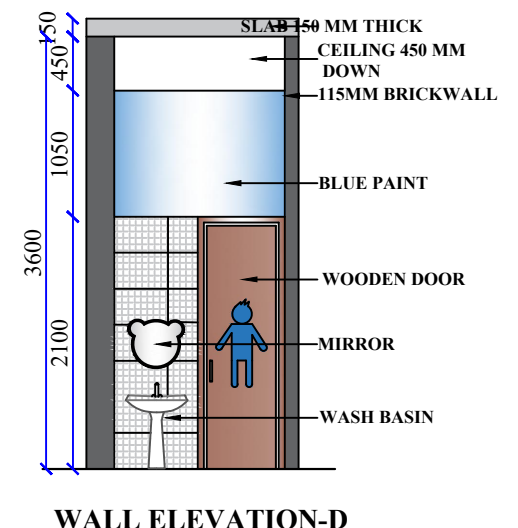
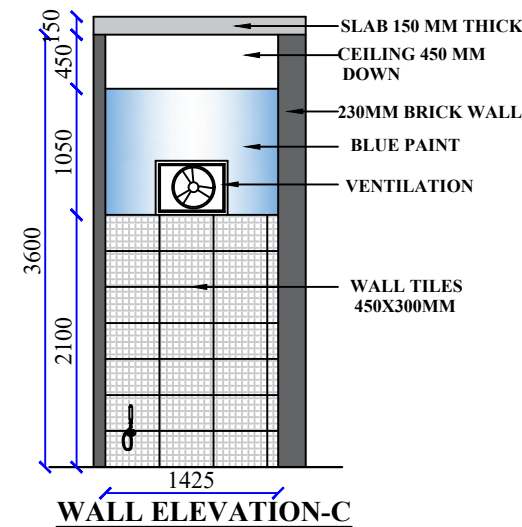
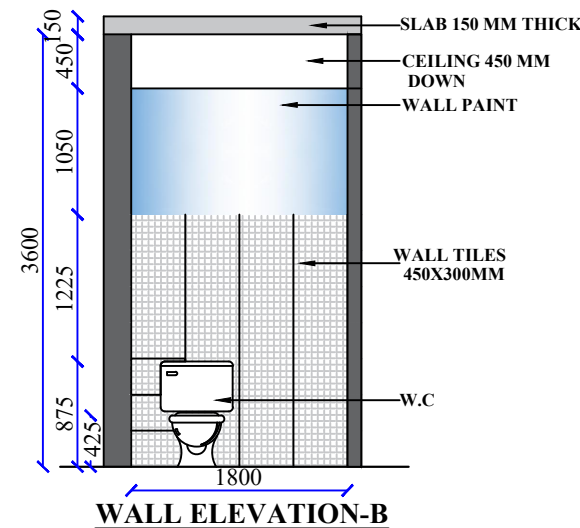
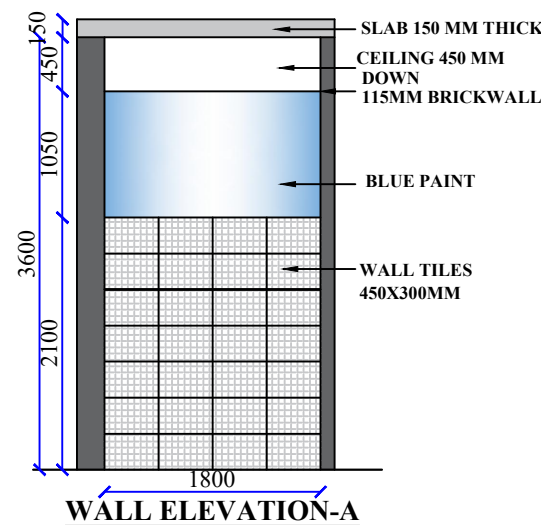
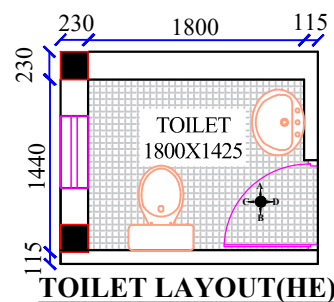
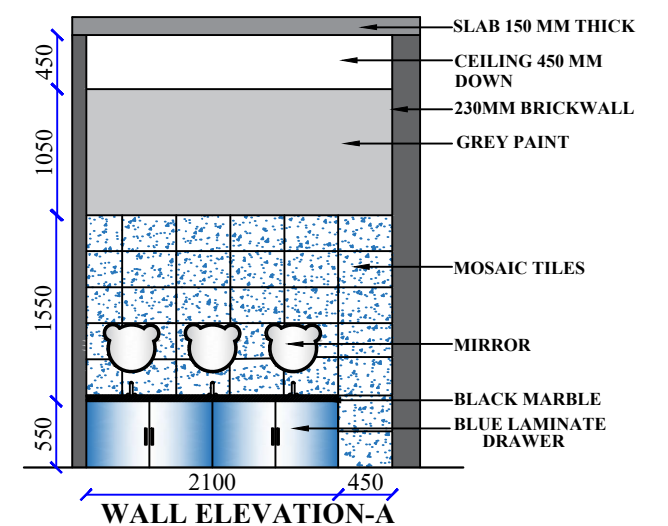
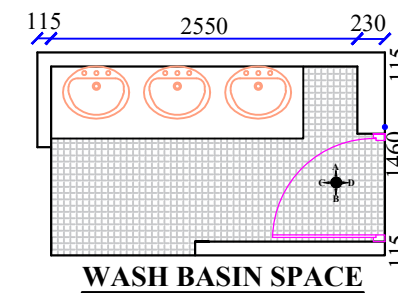
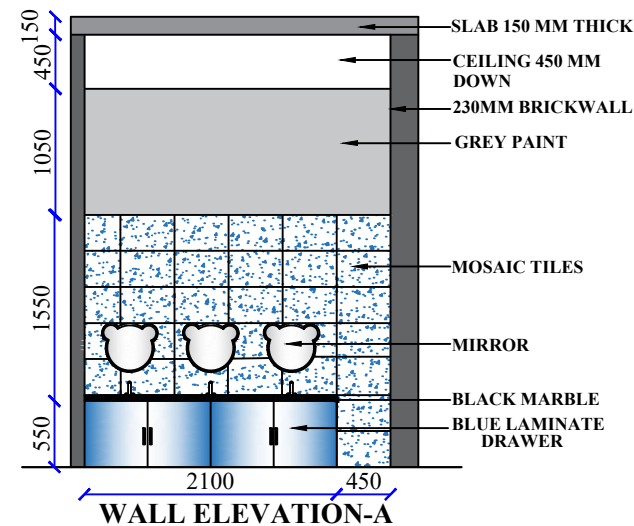
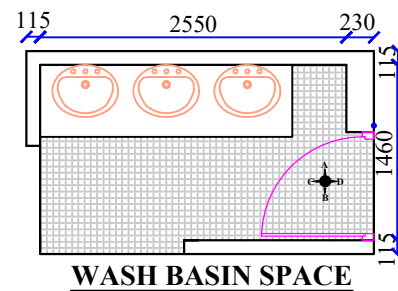
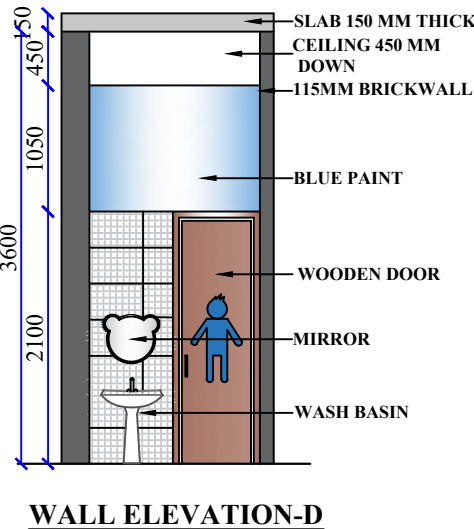
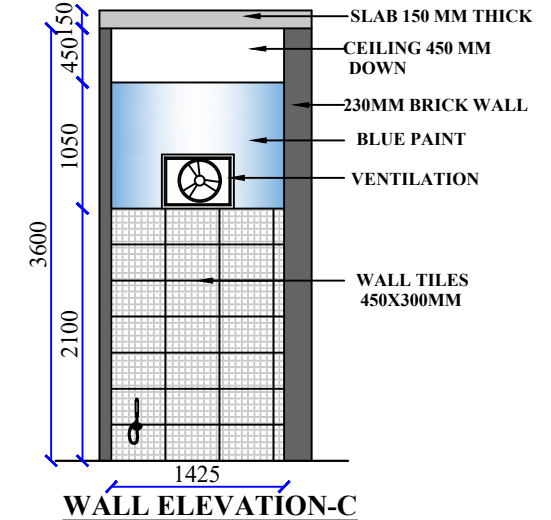
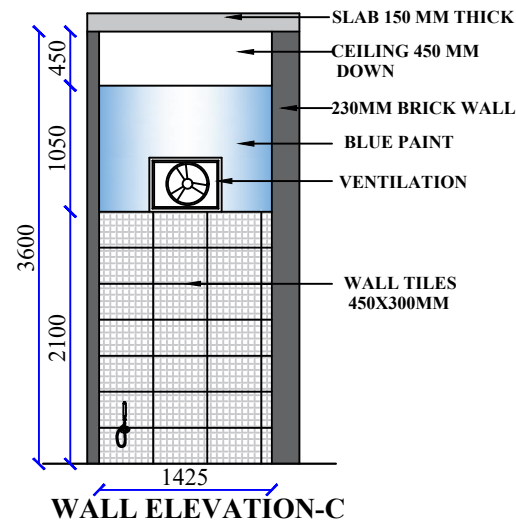
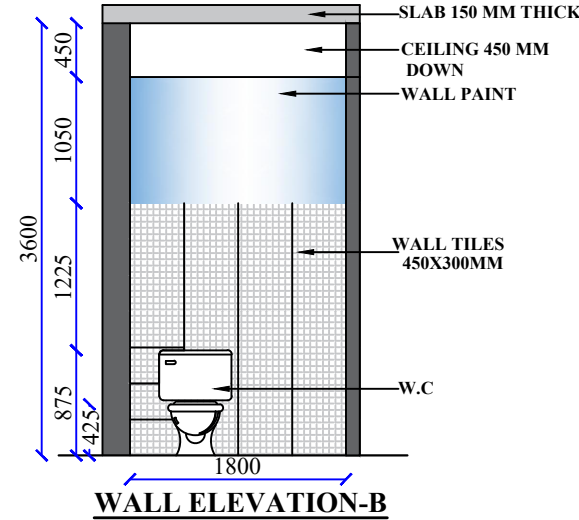
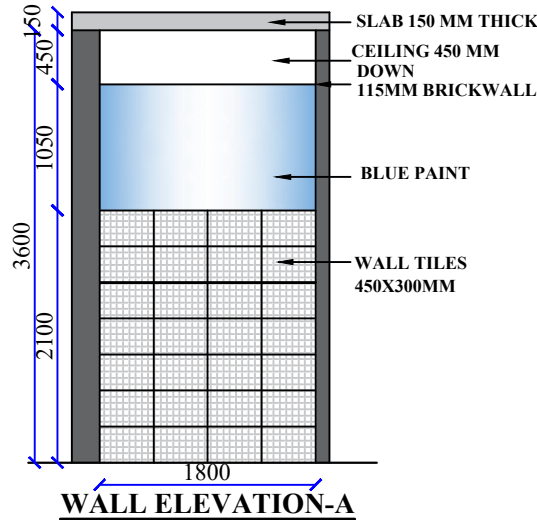
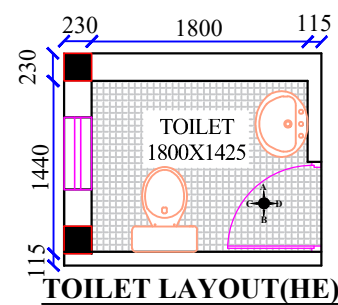
DRAWN BY - RIDDHI CHAUBEY
INTERIOR DESIGN THESIS
 B.I.D.-IV YEAR, 8TH SEMESTER
 BABU BANARASI DAS
 UNIVERSITY, LUCKNOW.UP

THESIS COORDINATOR

AR. VERSHA VERMA
AR. SHAILESH KUMAR YADAV

THESIS GUIDE

AR. ANSHU RASTOGI



**PROJECT :-
PRE-PRIMARY SCHOOL**

DRG TITLE- INTERIOR DRAWING	
DATE-	28/06/2023
SCALE	
SHEET NO-	12
SIGN	REMARK

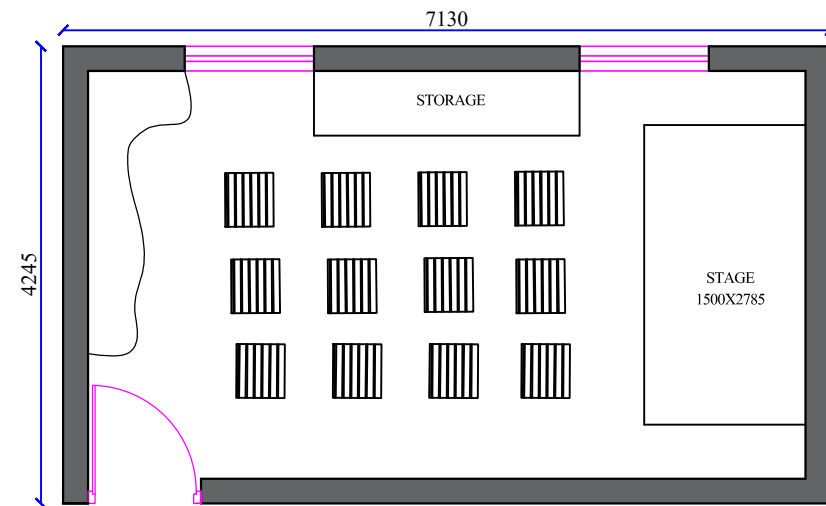
DRAWN BY - RIDDHI CHAUBEY
INTERIOR DESIGN THESIS
B.I.D.-IV YEAR, 8TH SEMESTER
BABU BANARASI DAS
UNIVERSITY, LUCKNOW.UP

THESIS COORDINATOR

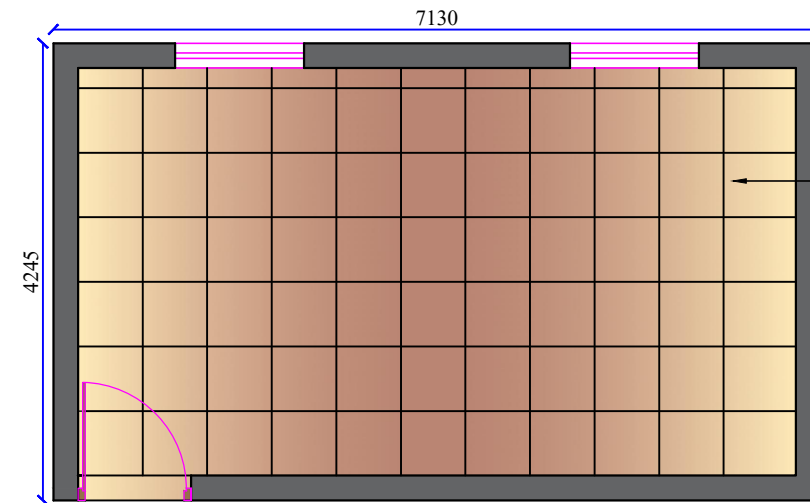
AR. VERSHA VERMA
AR. SHAILESH KUMAR YADAV

THESIS GUIDE

AR. ANSHU RASTOGI

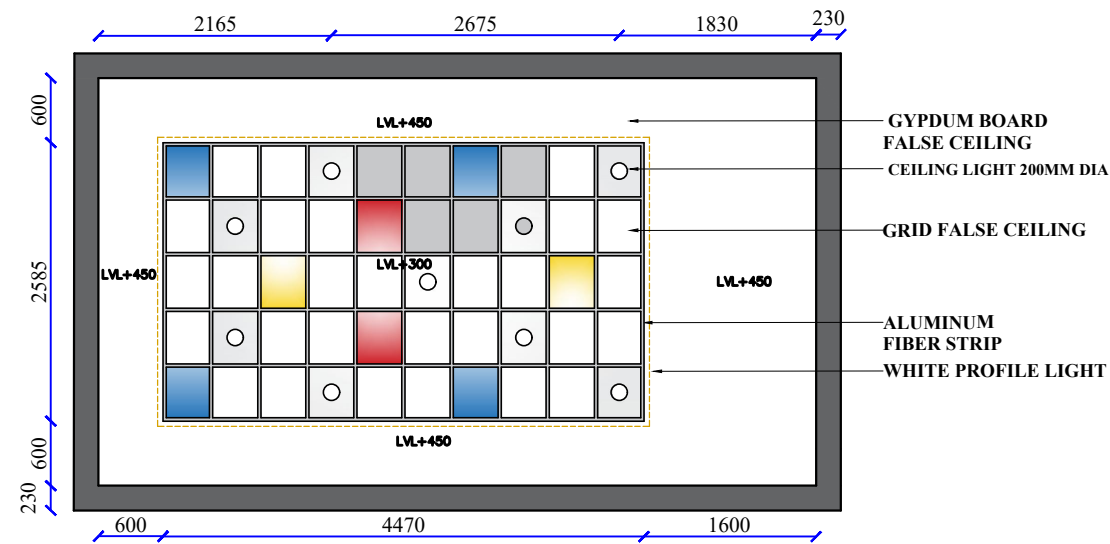


MUSIC ROOM FURNITURE LAYOUT

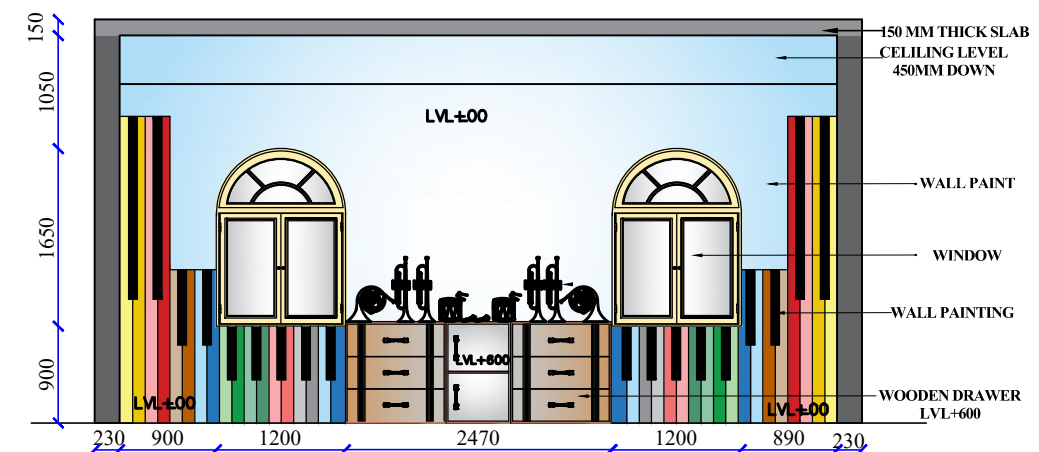


FLOORING PLAN

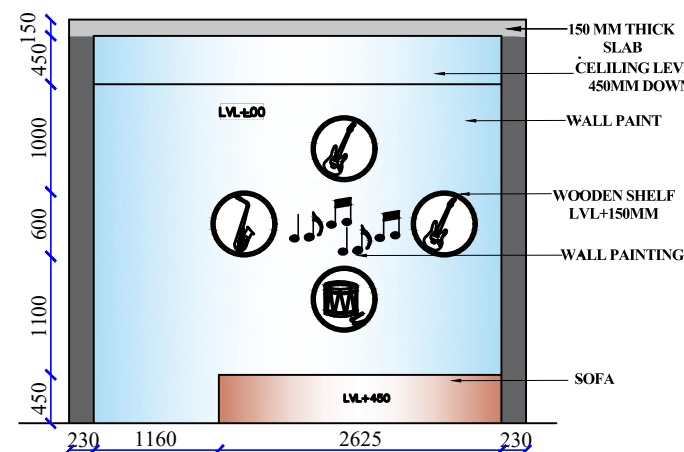
VITRIFIED WOODEN
TEXTURE TILE
SIZE-600X600



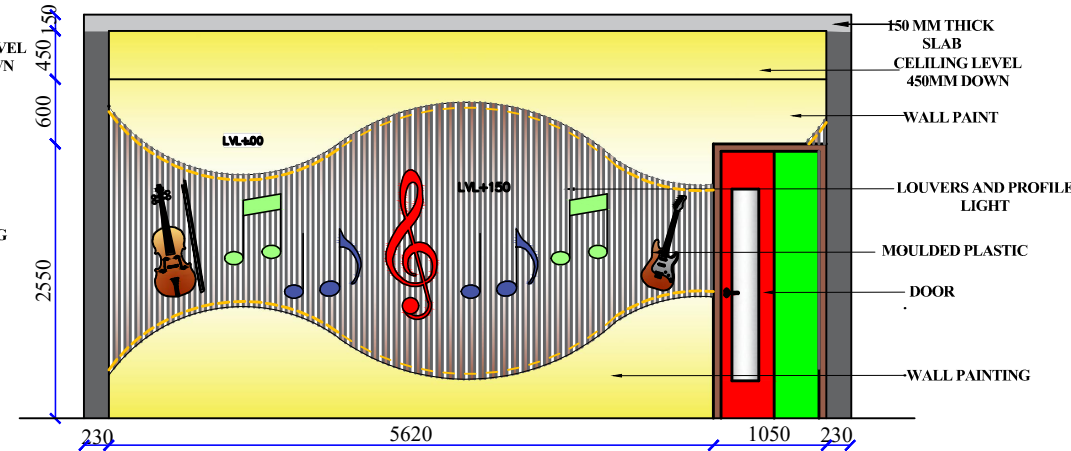
CEILING PLAN



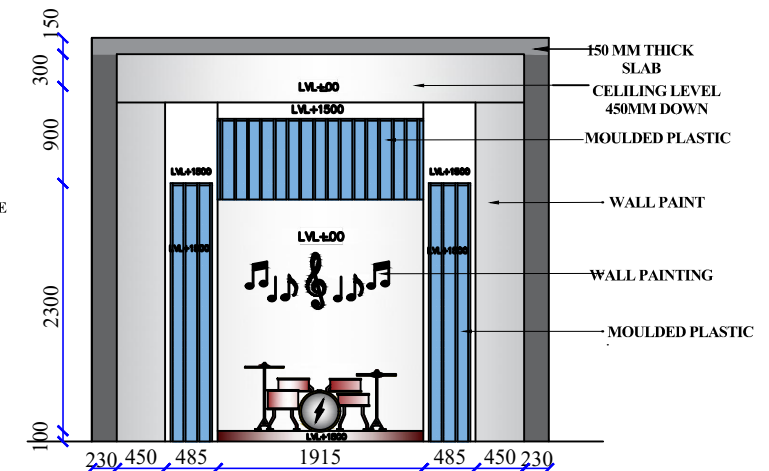
WALL ELEVATION-A



WALL ELEVATION-B



WALL ELEVATION-C



WALL ELEVATION-D

**PROJECT :-
PRE-PRIMARY SCHOOL**

DRG TITLE-	
INTERIOR DRAWING	
DATE-	28/06/2023
SCALE	
SHEET NO-	13
SIGN	REMARK

DRAWN BY - RIDDHI CHAUBEY
INTERIOR DESIGN THESIS
B.I.D.-IV YEAR, 8TH SEMESTER
BABU BANARASI DAS
UNIVERSITY, LUCKNOW.UP

THESIS COORDINATOR

AR. VERSHA VERMA
AR. SHAILESH KUMAR YADAV

THESIS GUIDE

AR. ANSHU RASTOGI