

THESIS REPORT
ON

HEALING THROUGH COLOURS:
A PEDIATRIC WARD IN A MULTI-DISCIPLINARY HOSPITAL
AT DEWA ROAD, LUCKNOW

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

BACHELOR OF INTERIOR DESIGN

SUBMITTED BY:

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UNDER THE GUIDANCE OF

AR. VARSHA VERMA



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

SESSION
2022-23

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

CERTIFICATE

I hereby recommend that the thesis entitled “” **HEALING THROUGH COLOURS: A PEDIATRIC WARD IN A MULTI-DISCIPLINARY HOSPITAL AT DEWA ROAD, LUCKNOW,**

prepared by NAMRA FATIMA under the supervision of Ar. Varsha Varma, 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.

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Recommendation:- Accepted
Not Accepted

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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 this project.

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.

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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 support helped 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.

THANKING YOU

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

Certificate of thesis submission for evaluation

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COLOURS: A PEDIATRIC WARD IN A MULTI-
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4. Degree for which the thesis is submitted: **BACHELOR OF INTERIOR DESIGN**
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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

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SYNOPSIS

CONTENT

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INTRODUCTION

- A hospital is a health care institution providing patient treatment with specialized health science and auxiliary healthcare staff and medical equipment.
- The best-known type of hospital is the general hospital, which typically has an emergency department to treat urgent health problems ranging from fire and accident victims to a sudden illness.
- A district hospital typically is the major health care facility in its region, with many beds for intensive care and additional beds for patients who need long-term care.
- Specialized hospitals include trauma centers, rehabilitation hospitals, children's hospitals, seniors' (geriatric) hospitals, and hospitals for dealing with specific medical needs such as psychiatric treatment (see psychiatric hospital) and certain disease categories. Specialized hospitals can help reduce health care costs compared to general hospitals.
- Hospitals are classified as general, specialty, or government depending on the sources of income received.

HISTORY & BACKGROUND

- The history of hospitals began in antiquity with hospitals in Greece, the Roman Empire and on the Indian subcontinent as well, starting with precursors in the Asclepiad temples in ancient Greece and then the military hospitals in ancient Rome.
- The Greek temples were dedicated to the sick and infirm but did not look anything like modern hospitals. The Romans did not have dedicated, public hospitals. Public hospitals, per se, did not exist until the Christian period.
- During World War I and World War II, many military hospitals and hospital innovations were created. Government run hospitals increased in Korea, Japan, China, and the Middle East after World War II.
- In the late 1900s and 21st century, hospital networks and government health organizations were formed to manage groups of hospitals to control costs and share resources. Many smaller, less efficient hospitals in the West were closed because they could not be sustained.

NEED OF TOPIC

- Hospitals are equipped with medical equipment that aids in the diagnosis and treatment of the most serious patients. Be it emergency operations, critical care, or life support systems, these are all facilities only a hospital will be able to provide.
- Hospitals provide everything under one roof i.e. one can find relevant doctors and all the necessary treatment in the same place in the best possible manner.

AIM

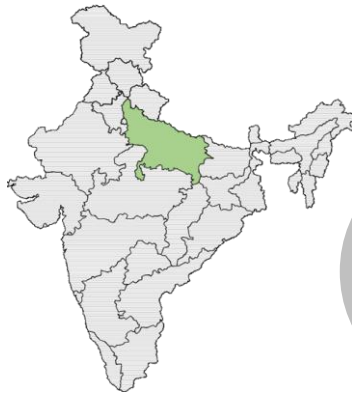
- The aim is to clearly find out the appropriate scheme for the interiors of Hospitals.
- To find ways to improve the mental and physical well-being of patients through right color choices
- The objective is to design a well-dedicated, cheerful environment for patients that boosts their mental, psychological and social wellness.

OBJECTIVE

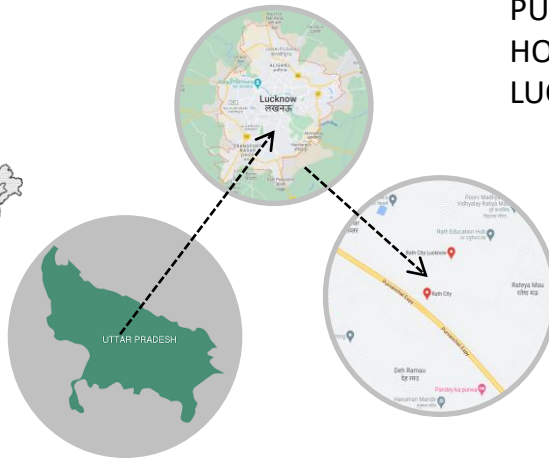
- To empower them to meet challenges and pursue goals.
- To encourage students to develop a sense of social responsibility.
- To enhance the quality of life.
- To create a lively and stimulating environment that is exciting today, as well as a preparation for the future.
- To create a caring, secure environment so that all in could feel a sense of worth.
- To develop a caring attitude for the environment.
- To create a partnership with parents.
- To observe living and inanimate things, and to recognize characteristics such as pattern

SITE DETAILS

SITE IDENTIFICATION



■ Uttar Pradesh



PURPOSED SITE FOR PEDIATRIC HOSPITAL AT DEWA ROAD, LUCKNOW

TENTATIVE REQUIREMENTS

- MEDICAL EQUIPMENT & SUPPLIES.
- PHARMACEUTICALS
- PATIENT CARE UNITS
- DIAGNOSTIC AND TREATMENT AREA
- PATIENT SUPPORT FACILITIES
- GENERAL SUPPORT FACILITIES
- PUBLIC AND ADMINISTRATIVE AREA
- HAND-WASHING STATIONS
- PATIENT TOILET ROOMS
- PATIENT BATHING FACILITIES
- PALLIATIVE CARE ROOMS

METHODOLOGY

- SITE ANALYSIS
- SITE & SURROUNDINGS
- SITE CLIMATE
- CASE STUDY
- LITERATURE STUDY
- REQUIREMENT SHEET
- AREA ANALYSIS
- STANDARD SHEET
- CONCEPT SHEET
- DESIGN
- ELECTIVE
- VIEW

SWOT ANALYSIS

A booming realty belt. Located in the extended fringe of the city. The road serves as a connecting link between Lucknow city and Dewa Road.

S
Strength

In terms of public transport, The hospital is not connected directly to railway station.

W
Weakness

O
Opportunity

Digitalization of products, services, and commerce models are democratizing current healthcare systems, manifesting a new era of healthcare consumerism

T
Threat

Hospitals are vulnerable to crime and violence from patients, visitors and occasionally their own staff members.

REFERENCES

Boston Children's Hospital (United States)



**SITE
ANALYSIS**

ABOUT PEDIATRICS

Pediatrics is the branch of medicine dealing with the health and medical care of infants, children, and adolescents from birth up to the age of 18. The word "*pediatrics*" means "*healer of children*".

SITE LOCATION

LOCATON - DEVA ROAD, LUCKNOW
CLIENT - CHANDAN HOSPITAL PVT. LTD.
PROJECT TYPE - PEDIATRIC WARD

CONNECTIVITY

BY AIR

Lucknow Airport is located around 22 km away from the city center. Daily flights of almost all domestic airlines from Delhi, Mumbai, Kolkata, Jaipur, Chandigarh, Bangalore, Patna and other important cities serve Lucknow. So, Lucknow can be easily reached by air from anywhere in India. **Nearest Airport** : Chaudhary Charan Singh International Airport, Lucknow.

BY RAIL

Gomti Nagar railway station is the nearest railway station to Deva Road. It links Lucknow with rest of India via a good number of mail and superfast trains. Passenger trains from nearby cities also ply to and from Lucknow. Several other railway stations like Charbagh, Aishbagh junction etc. also serve the city.

BY ROAD

Wide road network connects Lucknow to major cities of India. Major highways that pass through Lucknow are NH25, NH28 and NH56. Buses for Lucknow are easily available from Varanasi, Allahabad, Kanpur, Agra, Jhansi, Delhi and other nearby cities. One can also hire cabs or use private cars to reach Lucknow from nearby places.

ABOUT THE CITY

Lucknow, a large city in northern India, is the capital of the state of Uttar Pradesh. It is located roughly in the center of the state, on the Gomati River about 45 miles (72 km) northeast of Kanpur. and it is also the second largest urban agglomeration in Uttar Pradesh. Lucknow is the administrative headquarters of the eponymous district and division.



RUMI DARWAJA



HIGH COURT



CHIKAN KARI



BARA IMAM BARA



RUMI DARWAJA



EKANA STADIUM

ABOUT THE SITE

SITE AREA: 4000 Sqm.

BUILD UP AREA: 1000 Sqm.

CO-ORDINATES:

LONGITUDE- 26.7374° N

LATITUDE- 81.0964° E

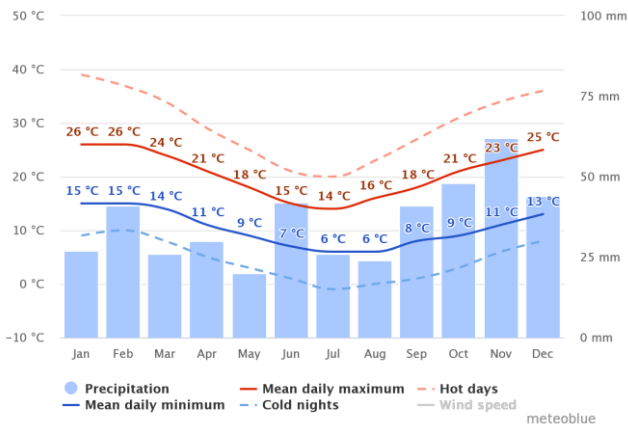
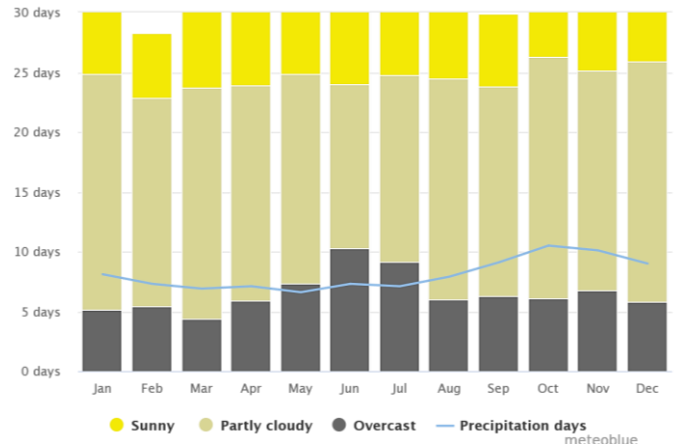
FACILITIES: Pediatric Intensive Care Unit, Neonatal Intensive Care Unit, General Ward (Boys & Girls), Doctor's Duty Room, Washroom(for children of all age), Private Rooms, Cedicated Nurse Station

CLIMATE DATA

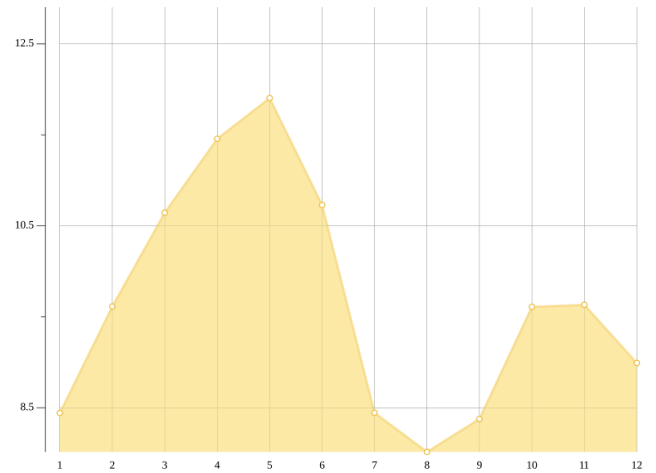
All Year Climate & Weather Averages in Lucknow

- ☐ High Temp: 40 °C
- ☐ Low Temp: 8 °C
- ☐ Mean Temp: 25 °C
- ☐ Precipitation: 55.9 mm
- ☐ Humidity: 65%
- ☐ Dew Point: 17 °C
- ☐ Wind: 7 km/h
- ☐ Pressure: 1008 mbar
- ☐ Visibility: 4 km

AVERAGE PRECIPITATION , CLOUDY, SUNNY,



AVERAGE MAX. & MIN. TEMPR. IN LUCKNOW

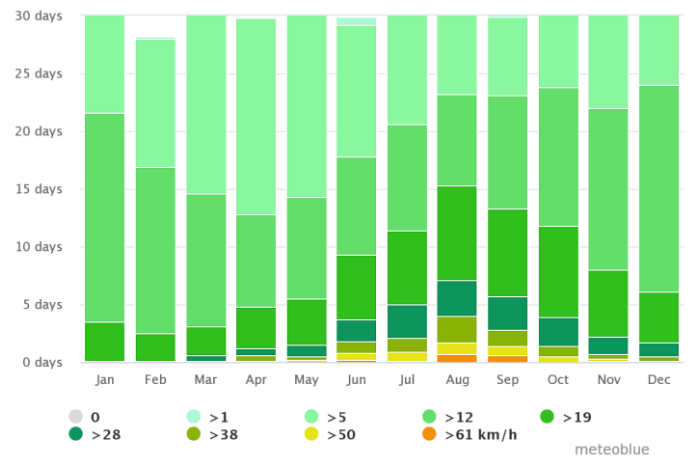
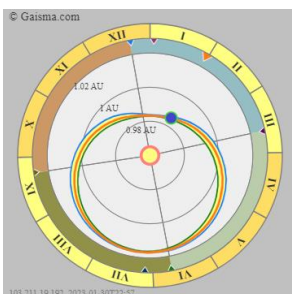


AVERAGE DAILY SUNHOURS PER MONTH IN LUCKNOW

QUICK CLIMATE INFO:-

- Hottest Month June (33 °C avg)
- Coldest Month January (15 °C avg)
- Wettest Month July (194.7 mm avg)
- Windiest Month June (9 km/h avg)
- Annual precip. 670.3 mm (per year)

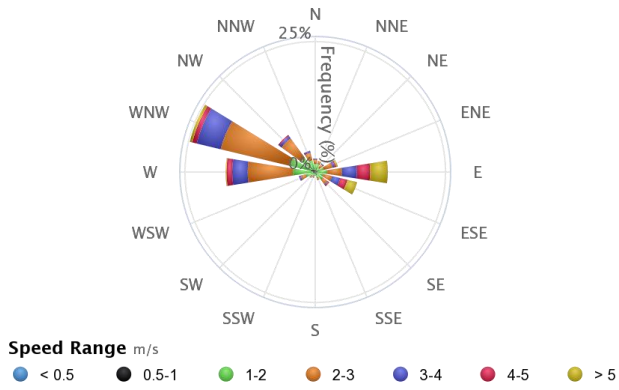
SEASONS GRAPH AND EARTH'S ORBIT



AVERAGE WIND SPEED IN LUCKNOW

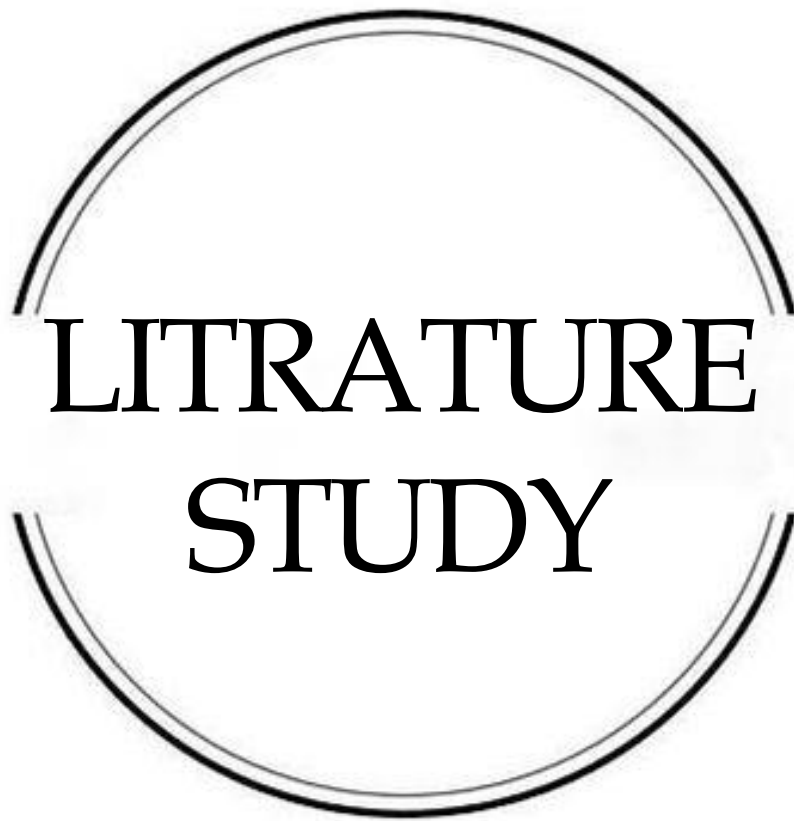
WIND ROSE FOR LUCKNOW

The wind rose for Lucknow shows how many hours per year the wind blows from the indicated direction



Date	Sunrise	Sunset	Length	Change	Dawn	Dusk	Length	Change
Today	06:52	17:47	10:55		06:28	18:12	11:44	
+1 day	06:52	17:48	10:56	00:01 longer	06:28	18:12	11:44	00:00 equal length
+1 week	06:49	17:53	11:04	00:09 longer	06:25	18:17	11:52	00:08 longer
+2 weeks	06:44	17:58	11:14	00:19 longer	06:20	18:21	12:01	00:17 longer
+1 month	06:30	18:08	11:38	00:43 longer	06:07	18:31	12:24	00:40 longer
+2 months	05:58	18:23	12:25	01:30 longer	05:34	18:47	13:13	01:29 longer
+3 months	05:29	18:39	13:10	02:15 longer	05:04	19:03	13:59	02:15 longer
+6 months	05:31	18:55	13:24	02:29 longer	05:06	19:20	14:14	02:30 longer

SUNRISE, SUNSET, DAWN AND DUSK TIMES, TABLE



LITRATURE
STUDY

DEV CHILDREN'S HOSPITAL

INTRODUCTION

Good architecture always speaks for its users! A perfect example of such a contemporary setup is a recently completed pediatric hospital by **Usine Studio, Vadodara**. It not only speaks for its users but also succeeds in delivering a **simplicistic, breathable space** with no hint of overdoing. The project came with the challenge of accommodating all the services and facilities in this small-sized plot of 2620 sq. ft.

SITE DETAILS

Firm – [Usine Studio](#)

Project Name – Dev Children's Hospital

Project location – Vadodara, Gujarat

Plot Area – 2620 Sq. Ft.

Gross built-up area – 7800 Sq. Ft.

Start Year – 01-Mar-2017

End Year – 10-July-2019

Photo credit – [Tejas Shah](#)

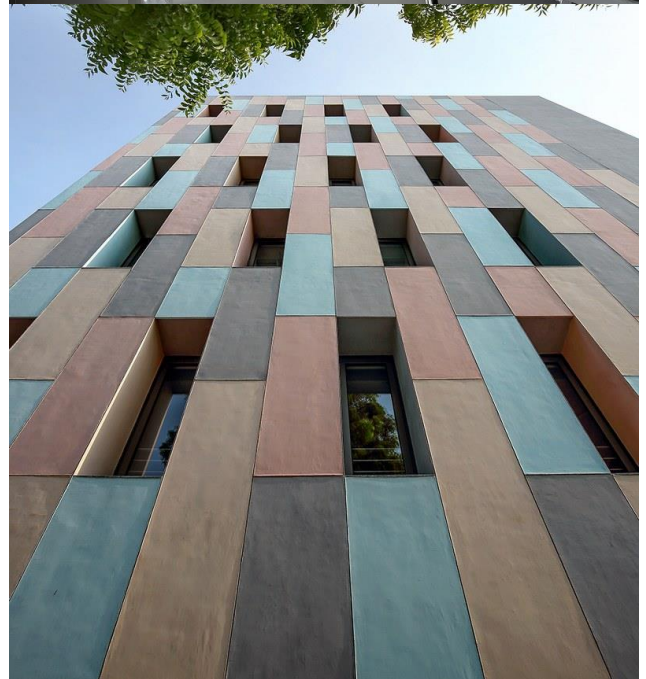
Principal Architects – Yatin Kavaiya & Jiten Tosar

Design Team – Ar. Hiral Solanki & Yesha Shah

ABOUT ARCHITECTURE

The exterior is an arrangement of **vertical concrete slats**– tinted using the technique of micro-concreting. This vertical arrangement along with the perforations for window slits not only accentuates the verticality of the building but also withstands its place as the landmark in this area.

Very consciously, the designers have achieved the same freshness across all its spaces- be it the general ward or the private wards. The same material palette and the design concept gets followed across all the wards. Materials that are easy to maintain and those that meet the standards, efficiently find their place in here.



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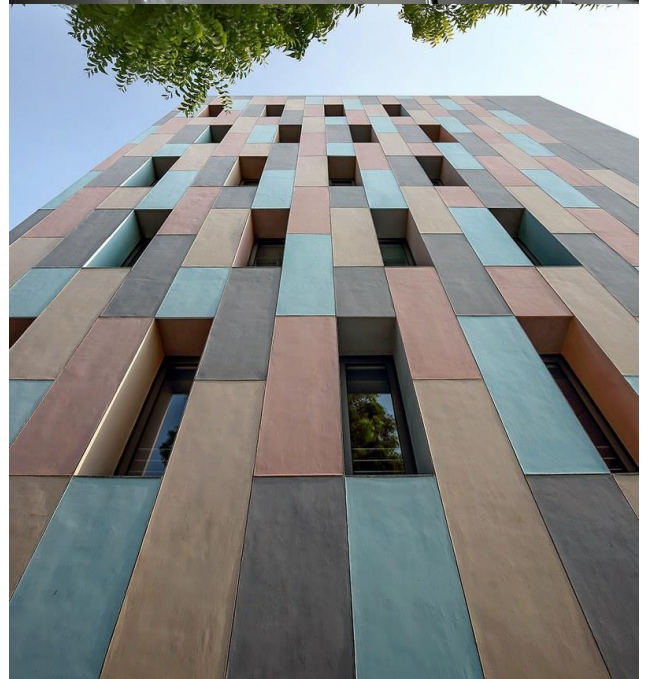
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Neat design, adequate lighting, and ventilation suffice to the significance of the space. Rather than having a few large openings, the spaces have a narrower window slits to evenly distribute the light and also bringing up interesting views every time one looks through it

INTERIOR APPROACH

Aluminum profile lights in the plain white ceiling run parallel to the floor tiles giving the space its **dimensional characteristics**. To further engross its little users, the caricatures take their own spot. The recession for the windows to bring in the indirect light, in turn, creates the niches for the seating and the display racks achieving the neatness in planning.

Stepping into the consultation room, the gaze shifts to the backlit stretchable ceiling with graphics to brighten up this space with indirect light. The graphics work dually in also keeping the toddler distracted when lying down for the checkups. It is a well-lit space with major use of whites and hints of yellow adding focal points into the setup. The neolith sheet on the wall and the tabletops are a perfect choice to achieve this desirable character for space.



EKH CHILDREN'S HOSPITAL

INTRODUCTION

A hospital is the kind of place most people would rather avoid as much as they can. We have witnessed more medical institutions' attempt to create a more pleasant and friendlier environment, some with the architecture and interior decoration that are almost equivalent to a shopping mall or hi-end hotels. If such built environment can make the feeling of going to a hospital for us adults more tolerable somehow, what about the experience of the little ones?

SITE DETAILS

Architects: IF (Integrated Field)

Area: 6000 m²

Year: 2019

Manufacturers: BSG Glass, EDL, Iris Ceramica, K2J, Nrdc, Resysta, SKK

Main Contractor: Adisorn Construction Co., Ltd



DESIGN APPROACH

For the kids, luxury isn't something that can comfort them from the pain, fear for needles or even the bitterness of the medicine. We, therefore, look for the things that will bring them happiness throughout their experience at the hospital. With the children's mindset, we discover that 'fun' is what every child instinctively looks for. Despite their different backgrounds, all kids want to live their lives looking for something fun to do.

The waiting area of each clinic is designed into a playground, which becomes somewhat a burden for the parents of having to convince the kids to leave the hospital). The program also includes an indoor swimming pool that has a bunch of artificial clouds floating atop.

Key Concept: 'Children Dimension'

INTERIOR CONCEPT


The children dimension is created using various physical shapes, colors and symbols materialized from the design language that is made up of delicately curved lines and deliberately avoids the perfect geometric forms.

The design renders the aesthetics, which reminisces the way one continues drawing of a curved line without focusing on whether it will be able to form a perfect circle or not, and it ends up bringing a sense of freedom to the young users' experience of the space.

These lines are formed into the arches constructed above the doorways and seating areas with the sizes calculated to correspond with children's body proportion, creating a built environment that truly accommodates children's behaviors and preferences



The hospital offers four room types, categorized not as a standard, special or suite room, but in the friendlier names of Whale, Turtle, Lion and Rabbit Constellation. Each room is decorated in a different color and installed above the bed is a glow-in-the-dark constellation with a customized lamp to provide both a standard lighting and the level of illumination that is suitable for a good night's sleep.



CASE STUDY

JPS CHILDREN'S HOSPITAL

INTRODUCTION:

Location: Balaganj, Lucknow, Uttar Pradesh

Scope: Children Hospital

Completion: 2019

Site: 10,000 SF

Latitude: 26.7374° N

Longitude: 81.0964° E

JPS Children's Hospital is a hospital dedicated exclusively to pediatric patients. The Hospital offers all medical and surgical specialties pertaining to pediatrics care. A team of well qualified physician and surgeons provide personalized medical care to each patient.

SALIENT FEATURES:

- Separate Unit dedicated to diagnosis and treatment of juvenile diabetes and its complications.
- Nutritional counselling available for children who are malnourished or show signs of physical and mental underdevelopment
- Psychological counselling sessions arranged for teenagers who suffer from adolescent troubles, academic stress, etc.



CONNECTIVITY:

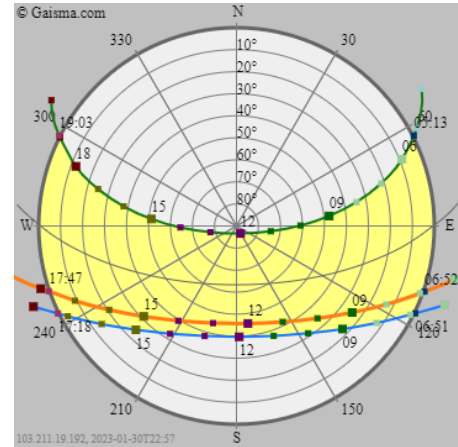
- 15 km away from **Alambagh Bus Station**
- 12 km away from **Charbagh Railway Station**
- 8 km away from **KD Singh Babu Metro Station**

SUN PATH DIAGRAM

CLIMATE DATA

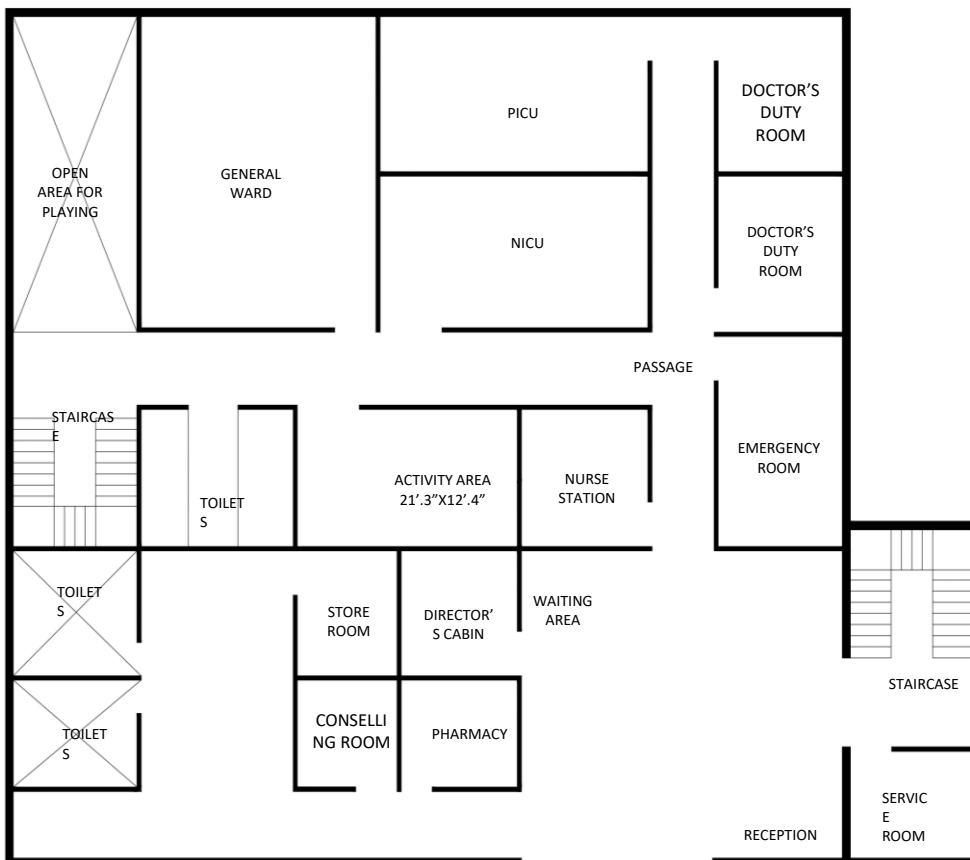
All Year Climate & Weather Averages in Lucknow

- High Temp: 40 °C
- Low Temp: 8 °C
- Mean Temp: 25 °C
- Humidity: 65%



SITE PLAN:

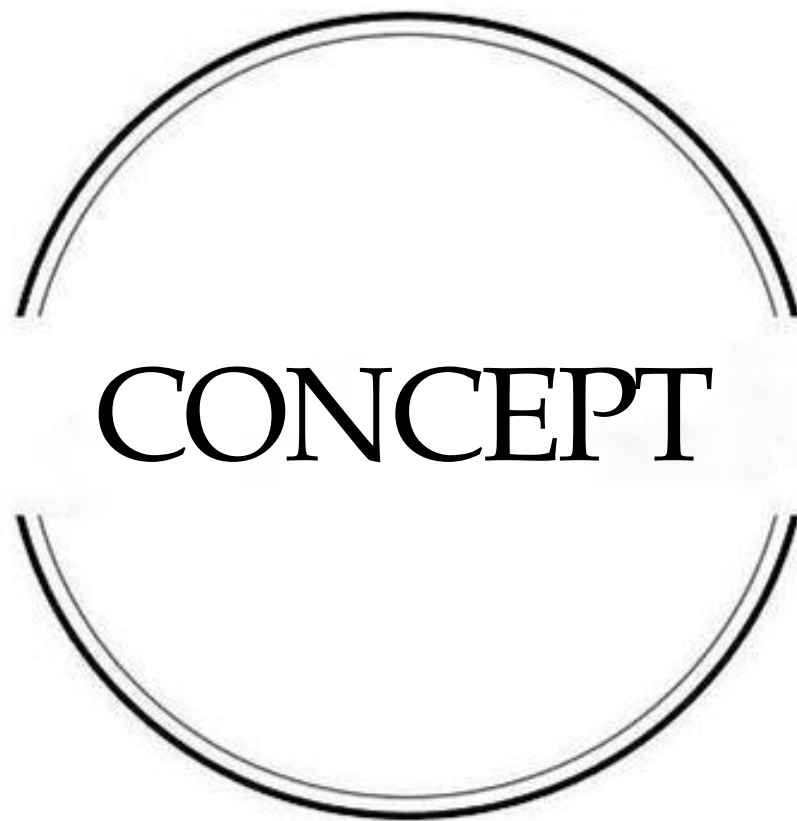
- The design of general ward pays more attention to flexibility and diversity, such as furniture that can be freely combined to support the collaboration between doctors and cross-inspiration between diagnosis.
- To support engagement at every scale, the hospital features an extensive array of exterior playscapes and interior furniture including stools, ottomans, benches, tables and chairs, cabinets, reading steps– all of which encourage creative expression and juvenile’s choice.



HEADS:

- ENTRANCE
- RECEPTION
- WAITING AREA
- DIRECTOR'S ROOM
- PHARMACY
- COUNSELLING ROOM
- EMERGENCY ROOM
- NICU
- PICU
- DOCTOR'S DUTY ROOM
- GENERAL WARD
- STORE ROOM
- TOILET

FIRST FLOOR PLAN



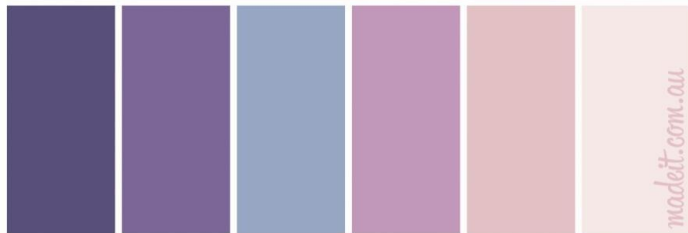
HEALING THROUGH COLOURS

INTRODUCTION

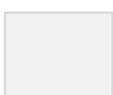
The healthcare has been long associated with the color white: It's clean and sterile. Doctors wear it. So do nurses.

But as [healthcare design](#) becomes more sophisticated (i.e. patient-centered and supportive of wellness), there's been a growing realization of how important it is to fine-tune color palettes.

Besides the psychological impact on a patient (and the speed and likelihood of their recovery), colors are also utilized as a communication tool and signaling system among healthcare staff.



THE CULTURAL MEANINGS OF COLORS IN A HEALTHCARE SETTING



associated with [cleanliness and health](#). This may be almost universally true in the West — and therefore appropriate for a setting that promotes wellness — but that's not the case everywhere. In China, for example, white symbolizes death and mourning — not the concepts you would want to invoke where the sick are convalescing.

If we look to older references like Greek and Roman mythology and the Old Testament, the meaning of colors are derived from nature.



associated with warmth and fertility because of the sun



symbolized youth, newness, and hope because of spring



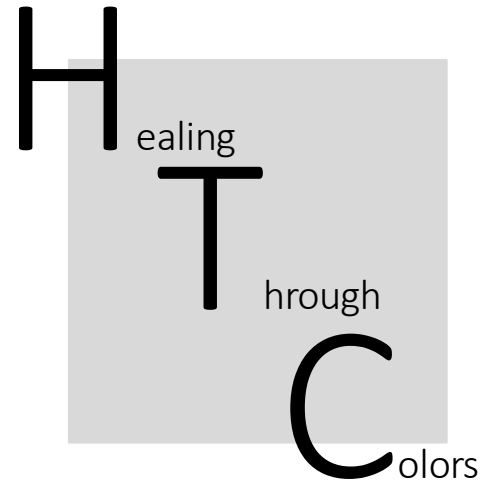
represented power because it was the color of blood

Colors also carry psycho-biological signals: **Black** could mean mold, decay, and excreta. "**Red** is associated with blood, mother and child ties, war and hunting. And **white** color is linked with semen, mother's milk, and reproduction."

PSYCHOLOGICAL IMPACTS IN THE HEALTHCARE ENVIRONMENT

There are a few widely held theories on [colors' specific impacts](#) on patients. Again, however, it's important to note that differences in culture could alter these effects.

- **Red** is believed to be energizing and encourage alertness: It's recommended for patients with dementia, who need the brain stimulus. It's also great for memory care services in senior homes.
- On the other hand, **red** is not recommended for patients who need a lot of rest and sleep, as it can cause anxiety and over-stimulation.
- **Blue, green, and purple**, especially in cool muted hues, can be very calming. They're great for hospital rooms, wards, waiting areas, and wellness centers like spas.



THEME

In traditional Japanese aesthetics, wabi-sabi is world view centered on the acceptance of transience and imperfection. The aesthetic is sometimes described as one of appreciating beauty that is “imperfect, and incomplete” in nature.



DESIGN COMPONENTS

- Wood – warm Furniture- tables, benches, shelving Floors- reclaimed and bamboo. Exposed beams
- Metal – cool Furniture, wrought iron or recycled metal
- Paper – warm Screens- room dividers, doors
- Textiles – warm Upholstery furniture- nubby with natural dyes
- Stone – cool Slate- countertops and flooring
- Clay – warm Pottery is an ancient art form in Japan and is deeply rooted in the wabi-sabi tradition
- Plants-cool- green lush greenery

ELEMENTS OF DESIGN

- Disregard Absolute Geometry
- Authentic
- Perfection In Imperfection
- Rustic
- Honest
- Pure Materials
- Clean & Crisp

M O O D

B O A R D



SIMPLE

EARTHY

CALM

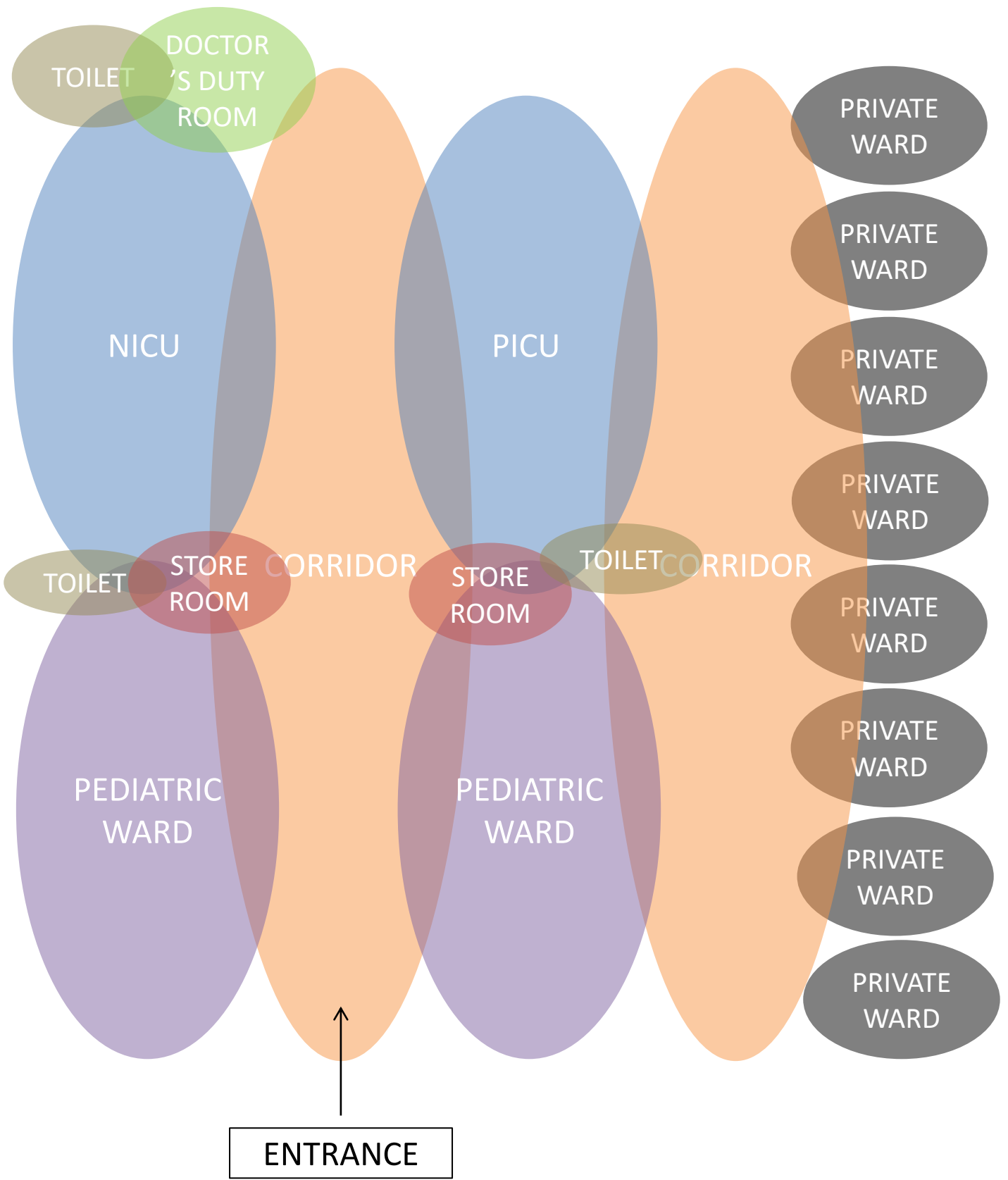
BALANCED

WARMTH

Olivia & Co.

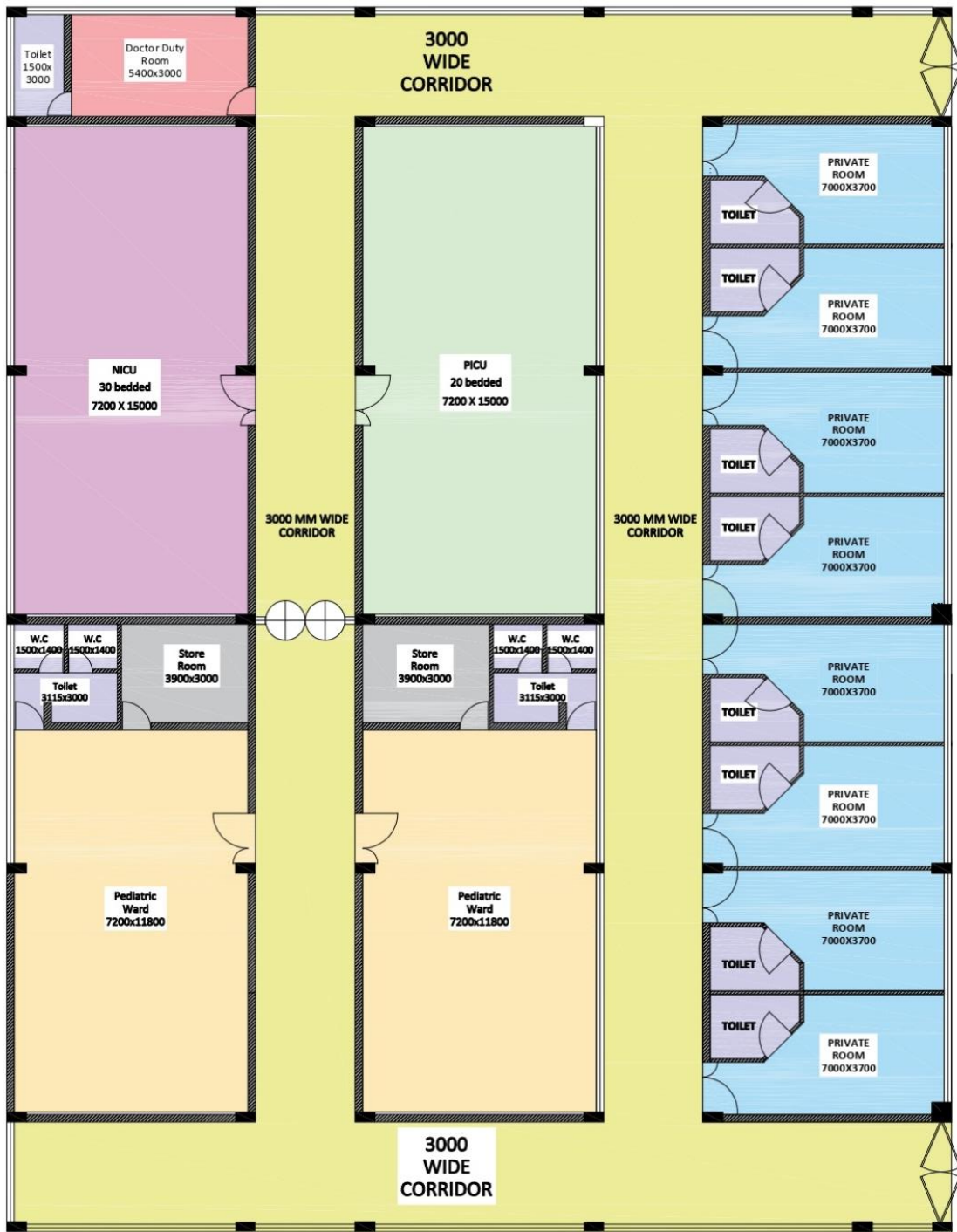










BUBBLE DIAGRAM



FIFTH FLOOR

ZONING PLAN LAYOUT



- | | | | | | |
|---|--------------|---|----------------|--|--------------------|
|  | CORRIDOR |  | NICU |  | STORE ROOM |
|  | PRIVATE WARD |  | PICU |  | DOCTOR'S DUTY ROOM |
|  | WASHROOM |  | PEDIATRIC WARD | | |

STANDARD DIMENSIONS

	in	cm
A	40-48	101.6-121.9
B	24 min.	61.0 min.
C	18	45.7
D	22-30	55.9-76.2
E	78 min.	198.1 min.
F	24-27	61.0-68.6
G	36-39	91.4-99.1
H	8-9	20.3-22.9
I	2-4	5.1-10.2
J	4	10.2
K	44-48	111.8-121.9
L	34 min.	86.4 min.
M	44-48	111.8-121.9
N	54	137.2
O	26-30	66.0-76.2
P	24	61.0
Q	30	76.2
R	15-18	38.1-45.7
S	29-30	73.7-76.2
T	10-12	25.4-30.5
U	6-9	15.2-22.9
V	39-42	99.1-106.7

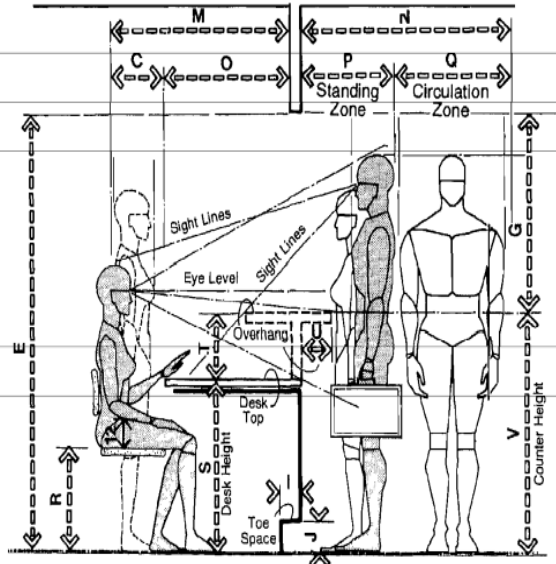


Fig. 2 Receptionist's workstation/desk height.

	in	cm
A	30-39	76.2-99.1
B	66-84	167.6-213.4
C	21-28	53.3-71.1
D	24-28	61.0-71.1
E	23-29	58.4-73.7
F	42 min.	106.7 min.
G	105-130	266.7-330.2
H	30-45	76.2-114.3
I	33-43	83.8-109.2
J	10-14	25.4-35.6
K	6-16	15.2-40.6
L	20-26	50.8-66.0
M	12-15	30.5-38.1
N	117-148	297.2-375.9
O	45-61	114.3-154.9
P	30-45	76.2-114.3
Q	12-18	30.5-45.7
R	29-30	73.7-76.2
S	22-32	55.9-81.3

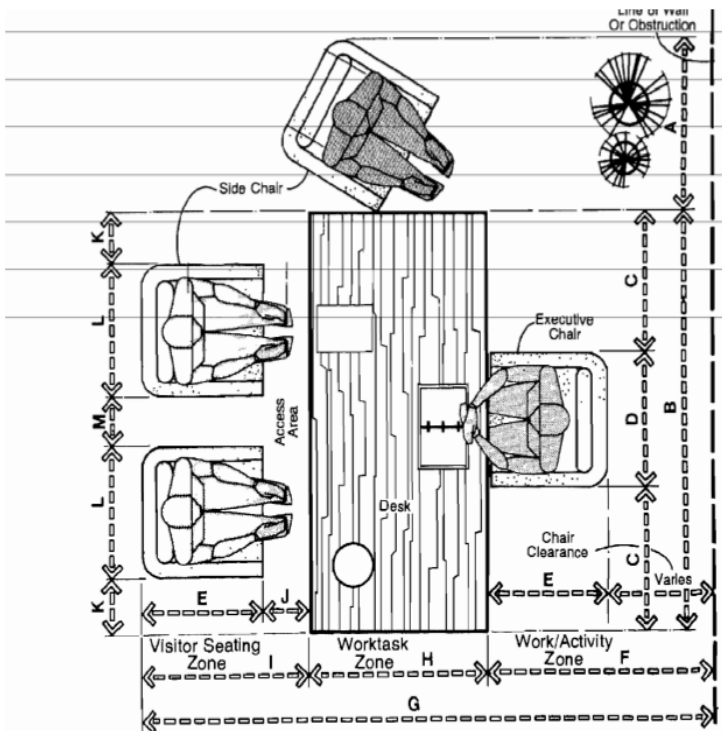


Fig. 1 Executive desk/visitor seating.

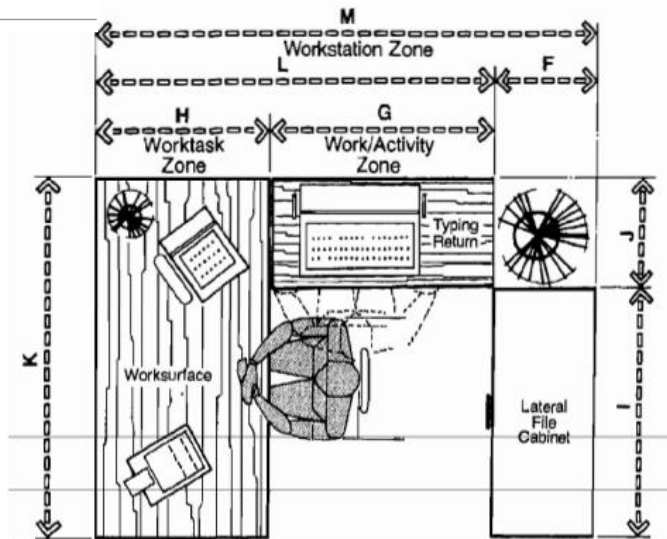
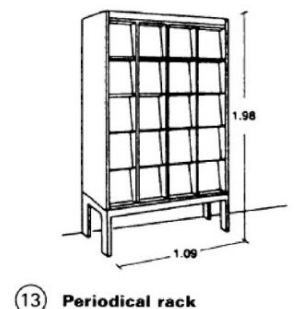
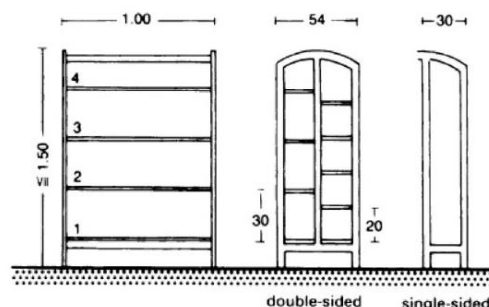
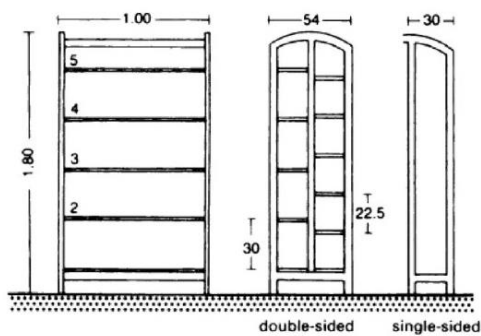
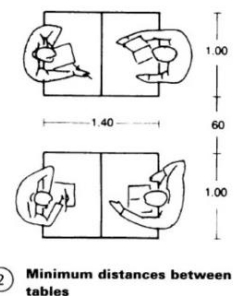
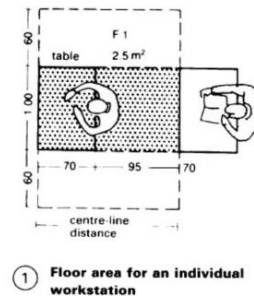
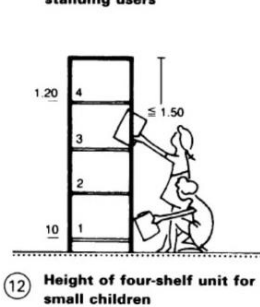
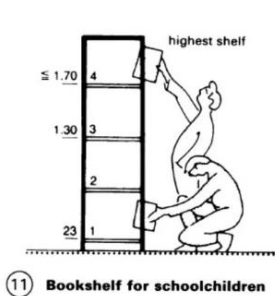
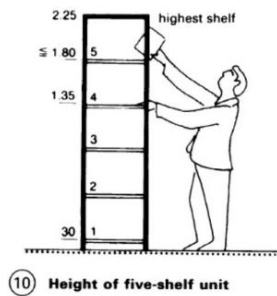
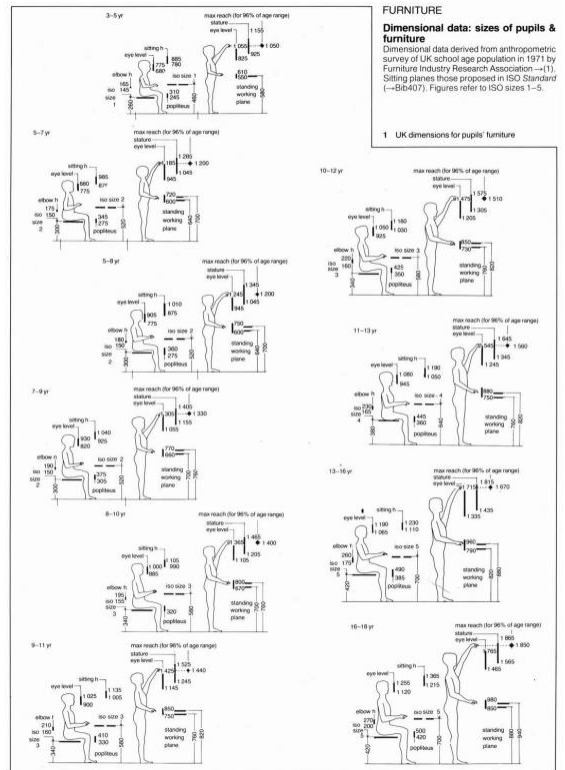
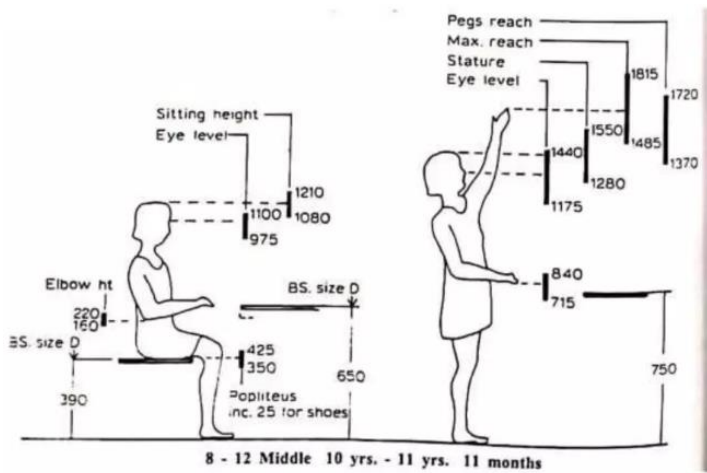
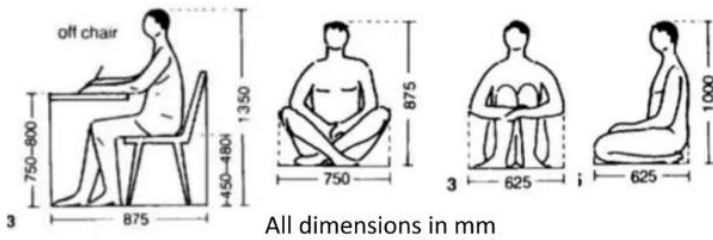


Fig. 2 Basic

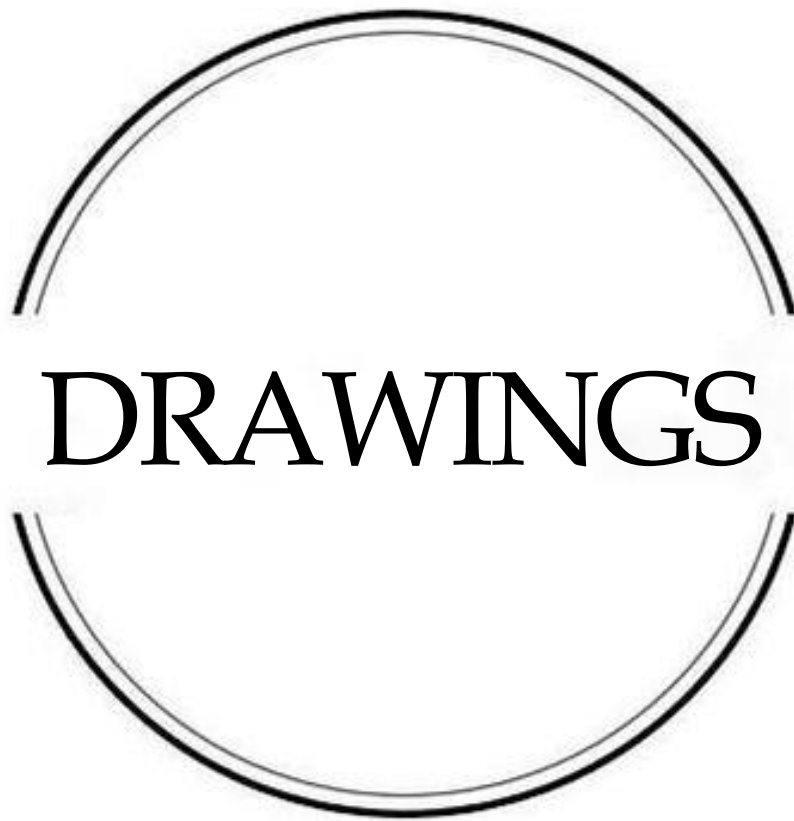
	in	cm
A	26-27	66.0-68.6
B	14-20	35.6-50.8
C	7.5 min.	19.1 min
D	29-30	73.7-76.2
E	7 min.	17.8 min.
F	18-24	45.7-61.0
G	46-58	116.8-147.3
H	30-36	76.2-91.4
I	42-50	106.7-127.0
J	18-22	45.7-55.9
K	60-72	152.4-182.9
L	76-94	193.0-238.8
M	94-118	238.8-299.7

RECEPTION AND OFFICE

FURNITURE STANDARDS

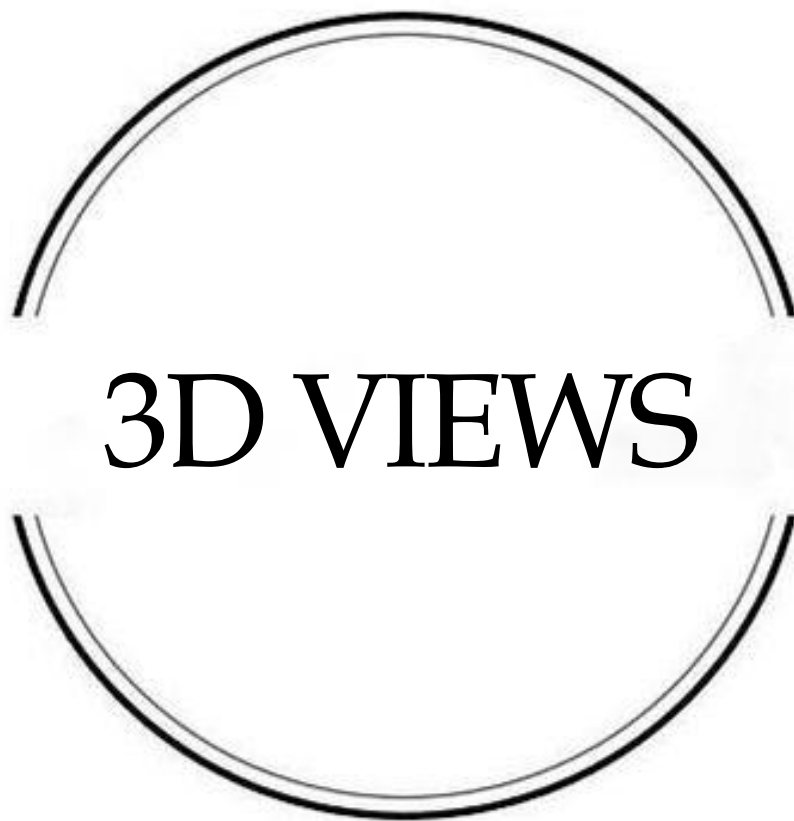


(*dimensions in cm)



DRAWINGS

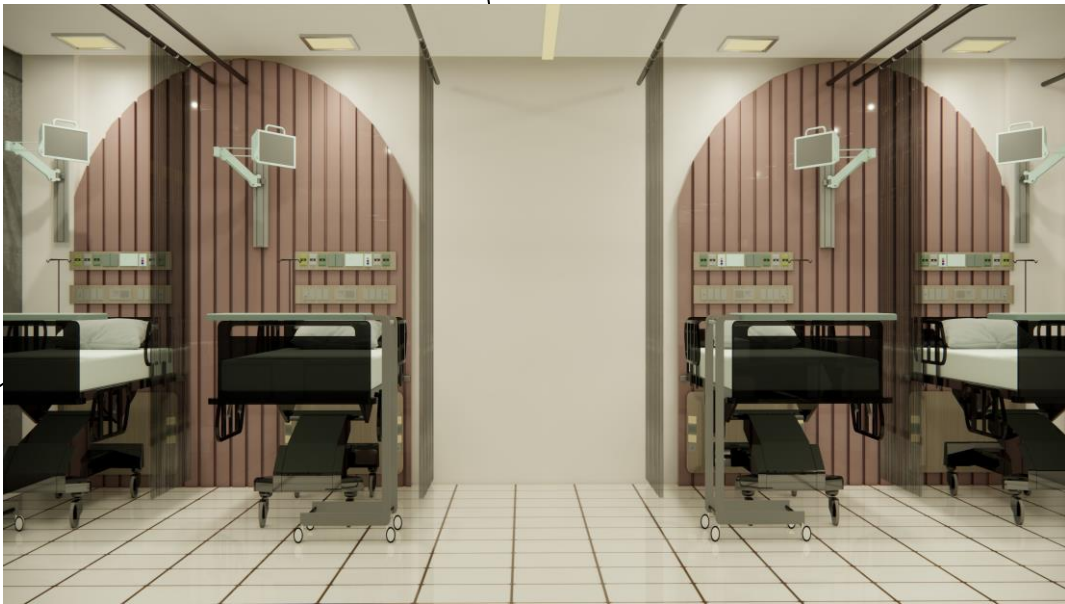




3D VIEWS OF NICU



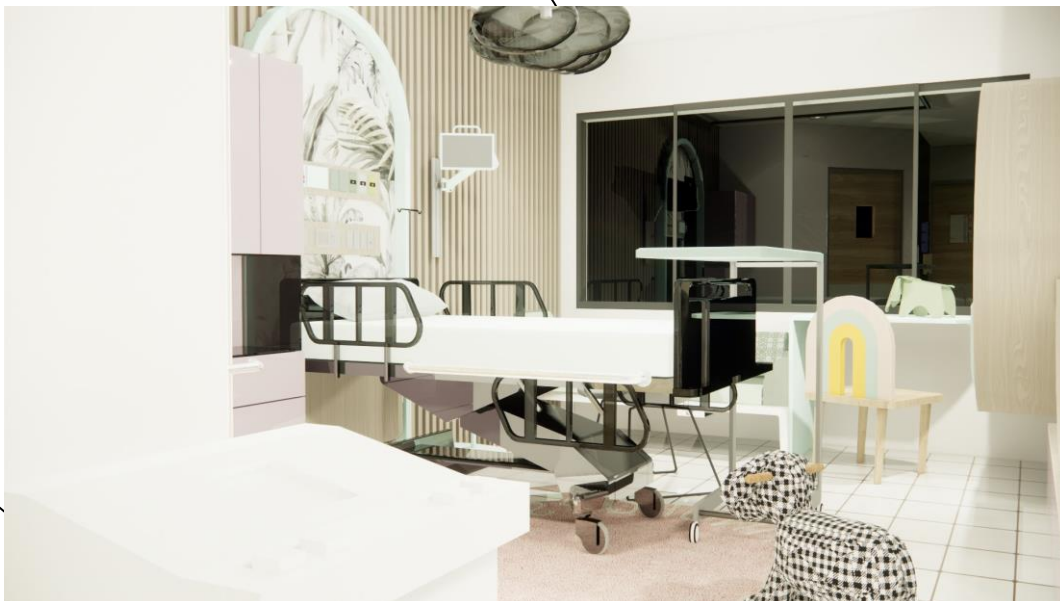
3D VIEWS OF PICU



3D VIEWS OF NURSE STATION



3D VIEWS OF PRIVATE ROOM



3D VIEWS OF PEDIATRIC WARD



3D VIEWS OF DOCTOR'S DUTY ROOM



3D VIEWS OF WASHROOM

