

THESIS - MULTISPECIALITY HOSPITAL

SITE:



Imparting special architectural features for a Multi-speciality Hospital. My aim was to emphasize on some critical physical aspects such as day-lighting, window design, thermal conditions and others.

STUDIO OBJECTIVE:

To acknowledge the critical experiences of patients, staff and visitors in hospital buildings and studing the Importance of daylight in hospital architecture. It will serve as a place of healing, providing facilities of various disciplines of medicine.



HOSPITAL:

- + A hospital is a healthcare instituion that provides medical, surgical and nursing treatment to the sick or injured through specialized staff and equiptments.
- + It is not just a cure center, it is a place for cure with facilities like pleasant environment, cleanliness, health care and human support. It provides happiness. calmness and self control.
- + According to WHO norms, Indias proportion of hospital beds to population is less than one-third of the set standards.



- + Hospital is the most visible place of health care industry.
- + It provides the platform where the practitioners of medicine integrate the healthcare technology with the living process.
- + They can be grouped by various classification like ownership, type of system, etc. But they all are planned to provide a level of healthcare, which ordinally cannot be provided at home.

1.1 Secondary hospital: District

4.1 Private hospitals

hospitals, etc.

4.2 Public hospitals, University

hospital, some specific hospitals ACC. TO LVL. 1.2 Tertiary hospital: Central high OF CARE specialized hospital, Educational hospital and some specific hospital 2.1 Minimum size hospital: <50 ACC. TO HOSPITAL 2.2 Mid size hospital: 50-250 beds SIZE 2.3 Big hospital: 250-500 beds 2.4 Huge hospital: >500 beds 3.1 Specialist hospital: paediatric ACC. TO hospital, eye hospital etc. SPECIALITIES 3.2 General hospital (Multispeciality hospital): all medical specialities are provided.

ACC. TO

OWNERS



+ Curing is not just related to the treatment provided in the hospital but it also depends upon the genetical factore, living style, environmental factors etc.

+ If proper treatment is provided at proper time then there are chances of being cured

INDIAN HEALTHCARE SECTOR:

Country	Market Size 34.2 billion	
lodia		
Brazil	19.1 billion	
China	137.0 billion	
Germany	250.0 billion	
USA	2,100.0 billion	

Public healthcare infrastructure

Primary Health Centres	23,000
Community Health Centres	2,935
District Hospitals	4,400
State Owned Hospitals	1,200

+ At 1.9 bed per '000 population, India would be at 75% of current Chinese ratio and at 50% of the level of Brazil and Korea.

HIZ

IN INDIA:

2018 2028



1. Strategic location

REQUIREMENT OF BEDS

2. High growth economy ->10%

0.7 to 1.7

880 million

sq ft

20,000

acres

5

1600

million so

36,400

acres

2480

million sa

56,400

acres

- 3. Pool of trained manpower
- 4. Active capital market
- 5. Conductive business environment
- 6. General competitiveness
- 7. Least utility cost and globally cost competitive labor cost

Country	Market Size	
lodia		
Brazil	19.1 billion +	
China	137.0 billion +	
Germany	250.0 billion	
USA	2 100.0 billion	

+ Urbanisation: 37.4% 18.29 44.0%

(6.2% of India)

current prices

(GSDP):US\$45.3 billion

Population: Over 50 million (5.0% of

Geographical area: 1,96,000 sq. km Gross State Domestic Product Per Capita Income: US\$915 at

HEALTH INFRASTRUCTURE NEEDED

REQUIREMENTS

(800 sq. ft/bed)

Bed/1000 population ratio

Additional floor space

Additional land area

(floor space index 1:1)

Primary sector Secondary sector Tertiary sector

- + High industrial growth : Gujarat has demonstrated a high industrial growth rate of 12.5% from 2002 - 2007
- + Industrialisation: Gujarat is home to over 800 large industries and 3,20,000 micro, small and medium enterprises.

PROPOSED CITIES BY VIBRANT GUJARAT:



Vibrant Gujarat has proposed four cities in gujarat for medical tourism and hospital that is Surat, Rajkot, Vapi and Vadodra



Gujarat is well connected to all major locations such as Delhi, Mumbai and other nearby states from where Broad gauge railway line passes through.



Gujarat is well connected to all major locations such as Delhi port in Ahmedabad & 8 domes- seaport in Kandla and Mumbai through Delhi-Mumbai Industrial Corridor (DMIC) and

neighbouring states

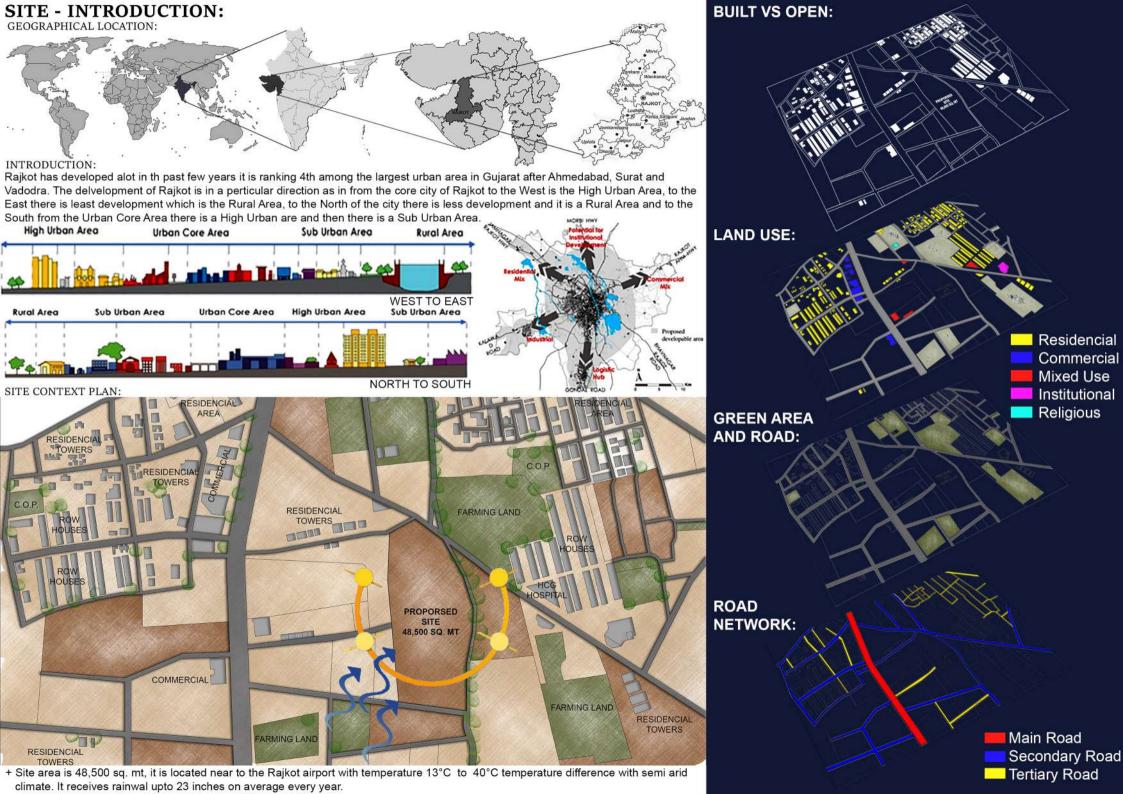
37.8%

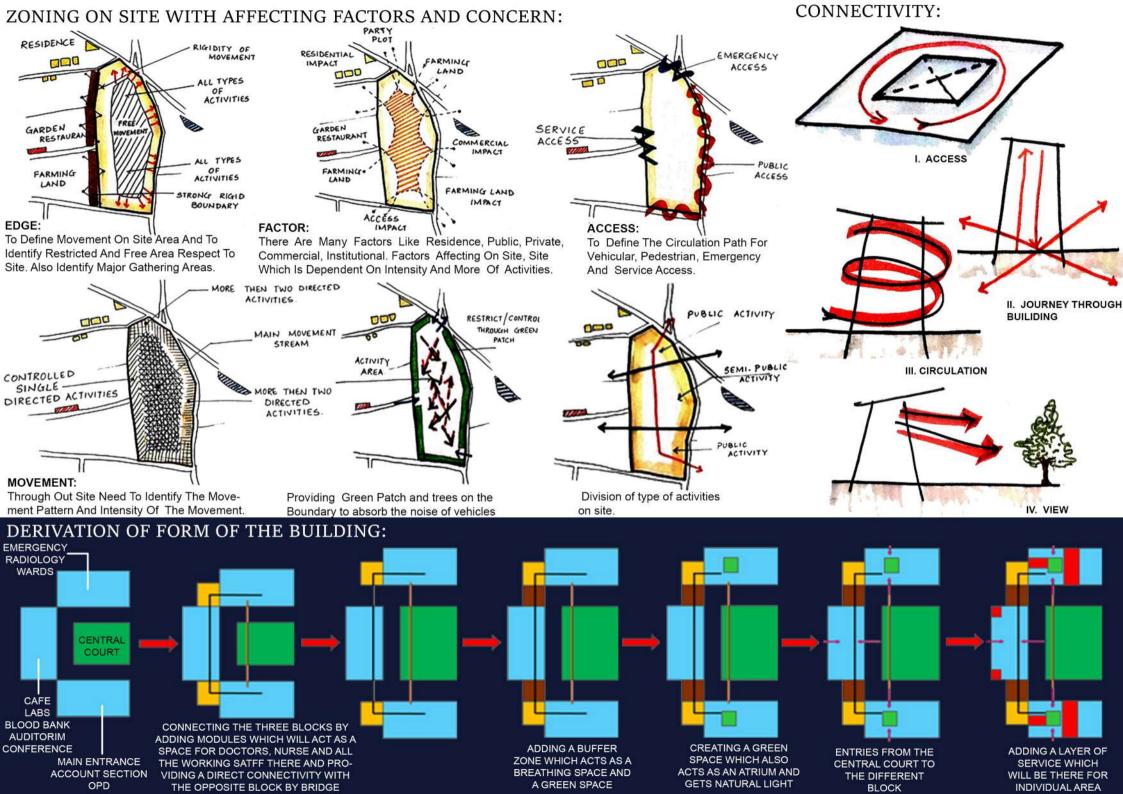
Gujarat has 1 international air- Gujarat has a major tic airport in Surat Vadodara, Rajkot, Bhavnagar, Junagadh, Jamnagar, Porbandar & Kachchh which is connected to

metro cities in India



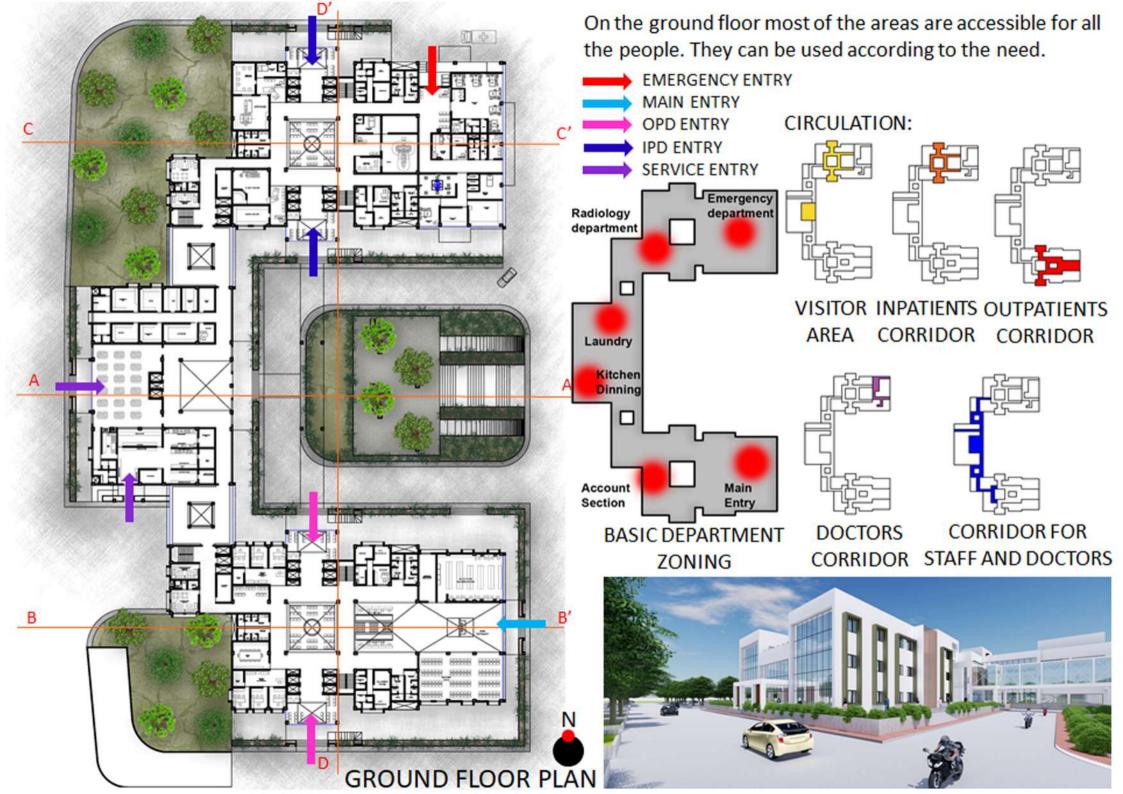
and around 40 non major seaports

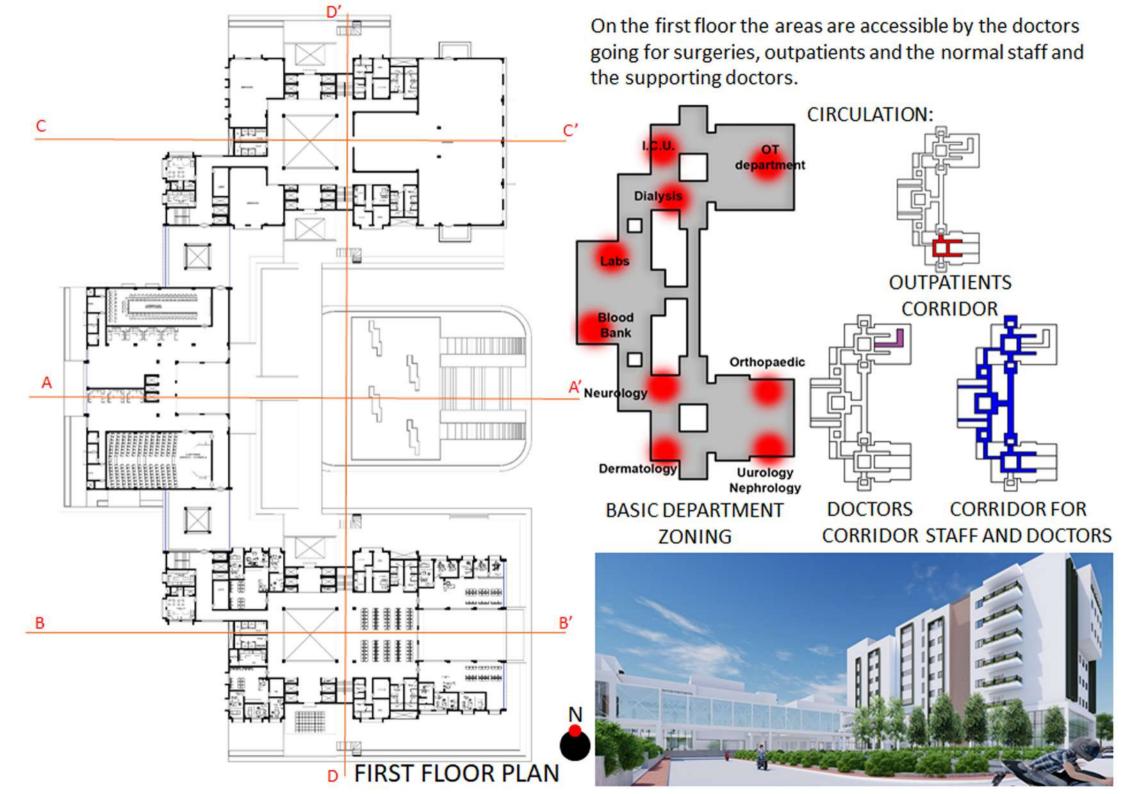


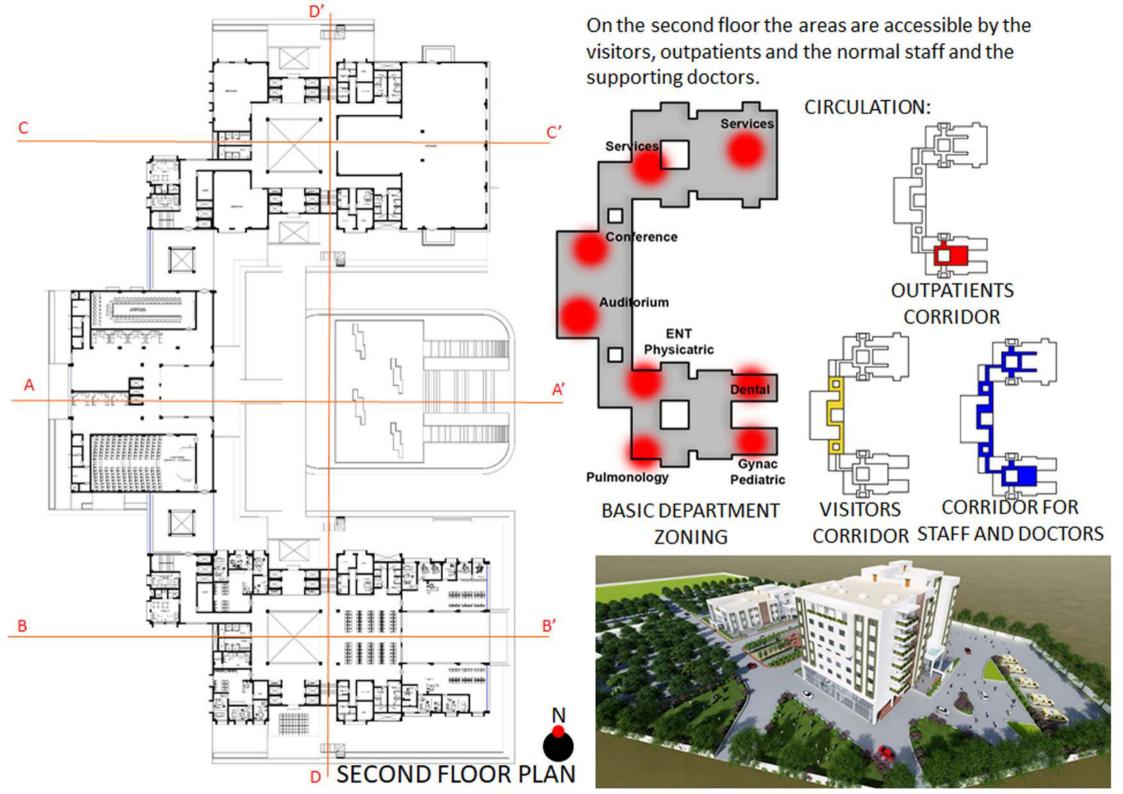


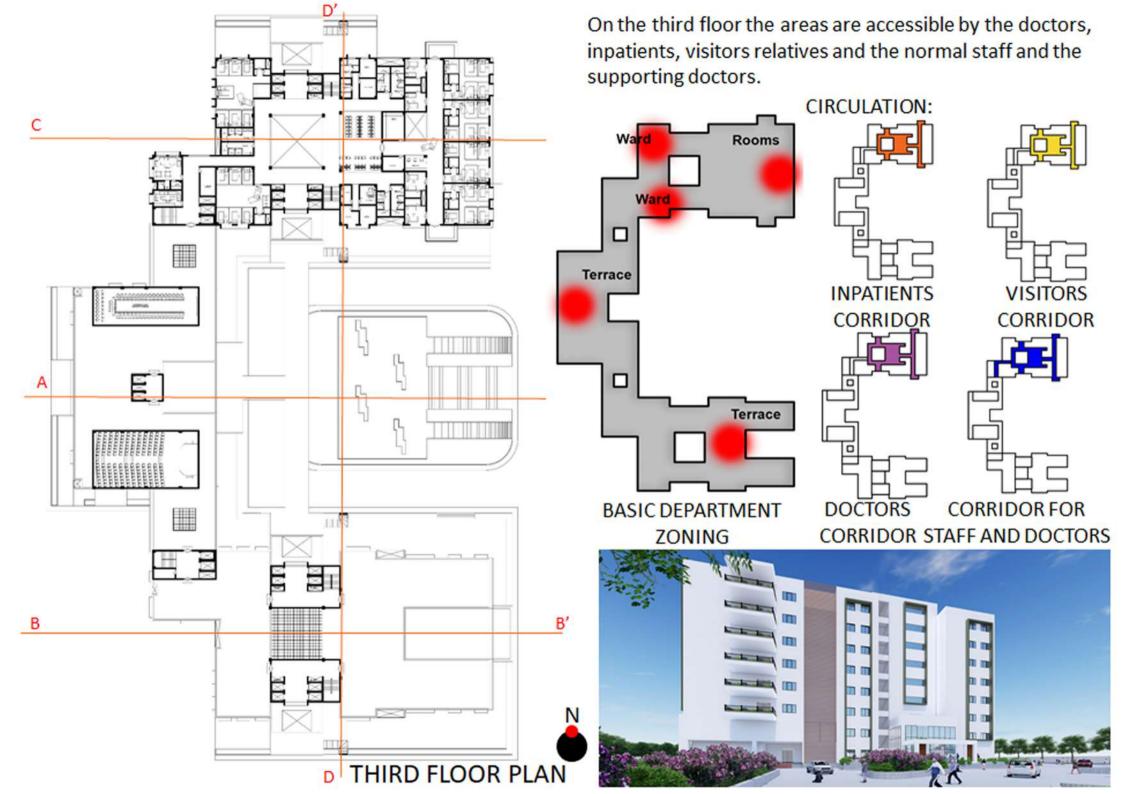


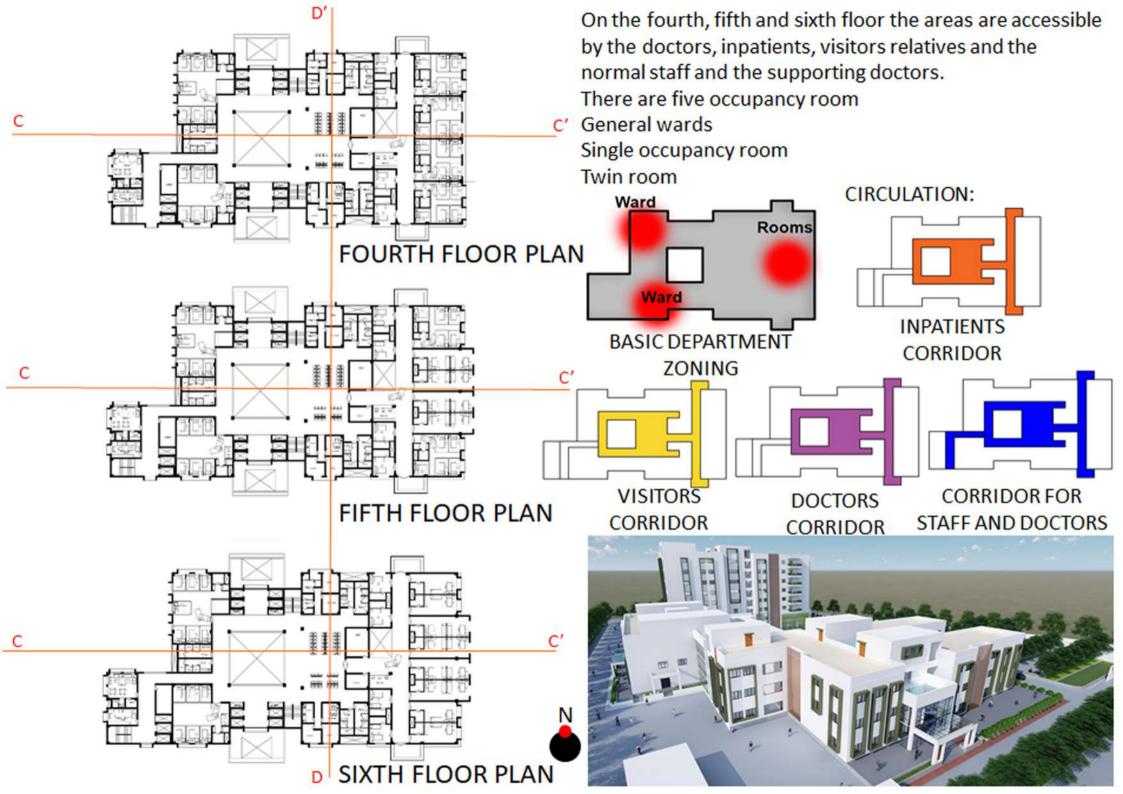


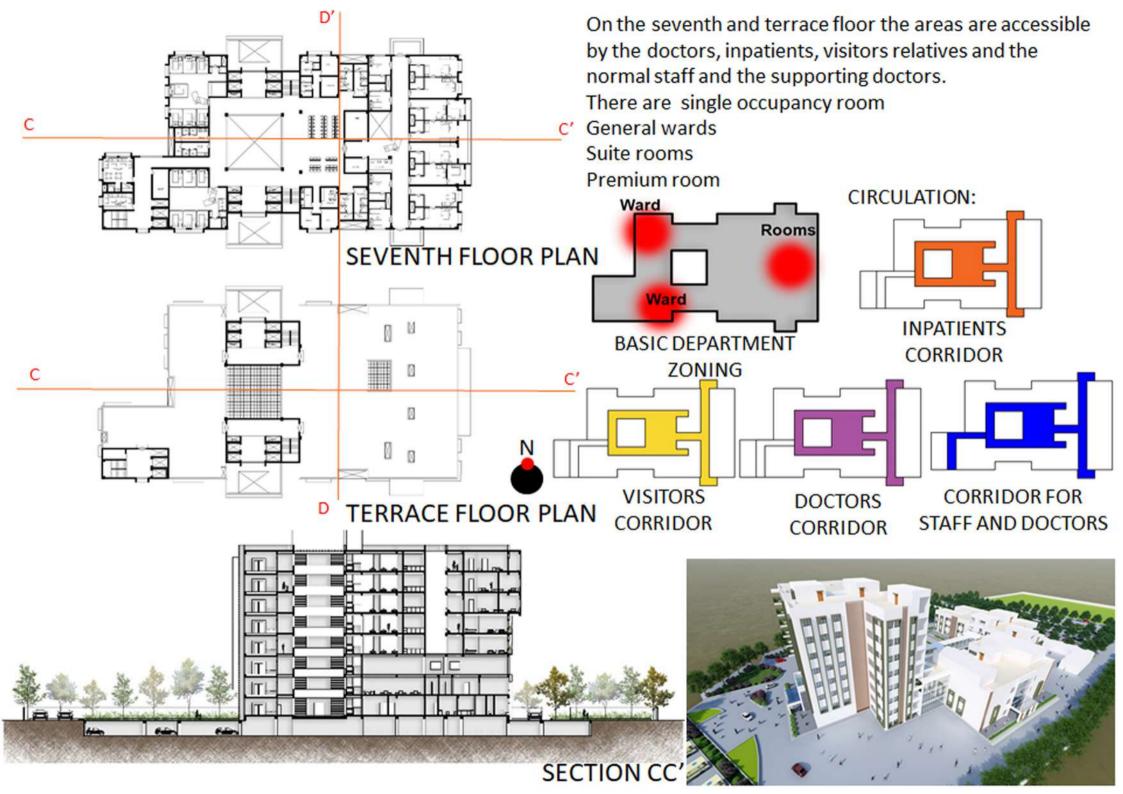






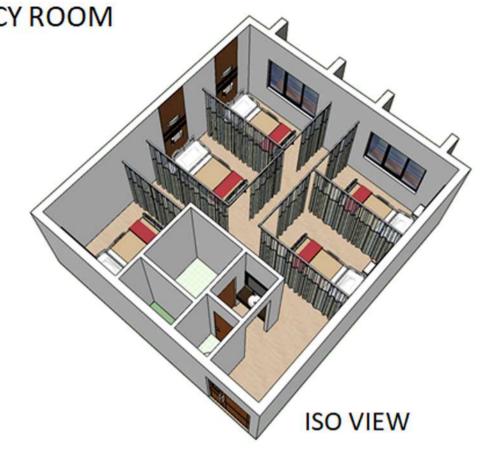




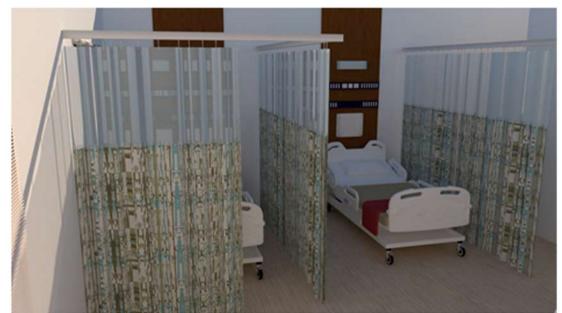




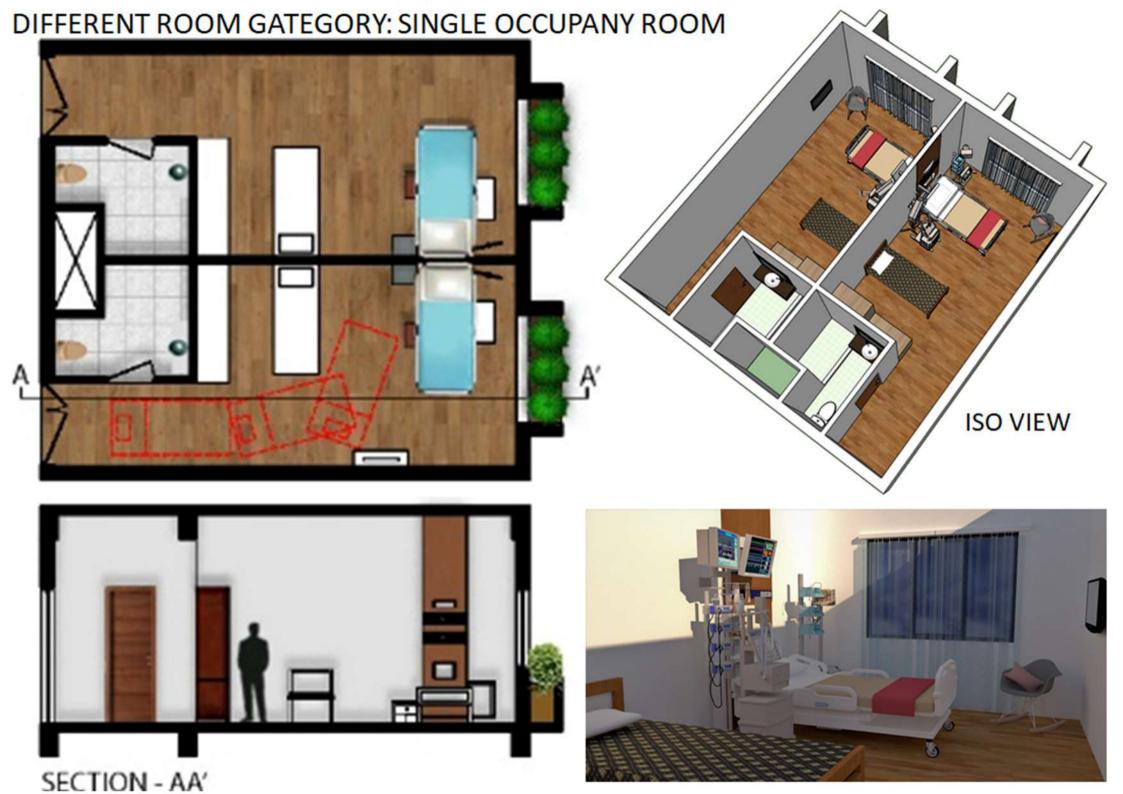


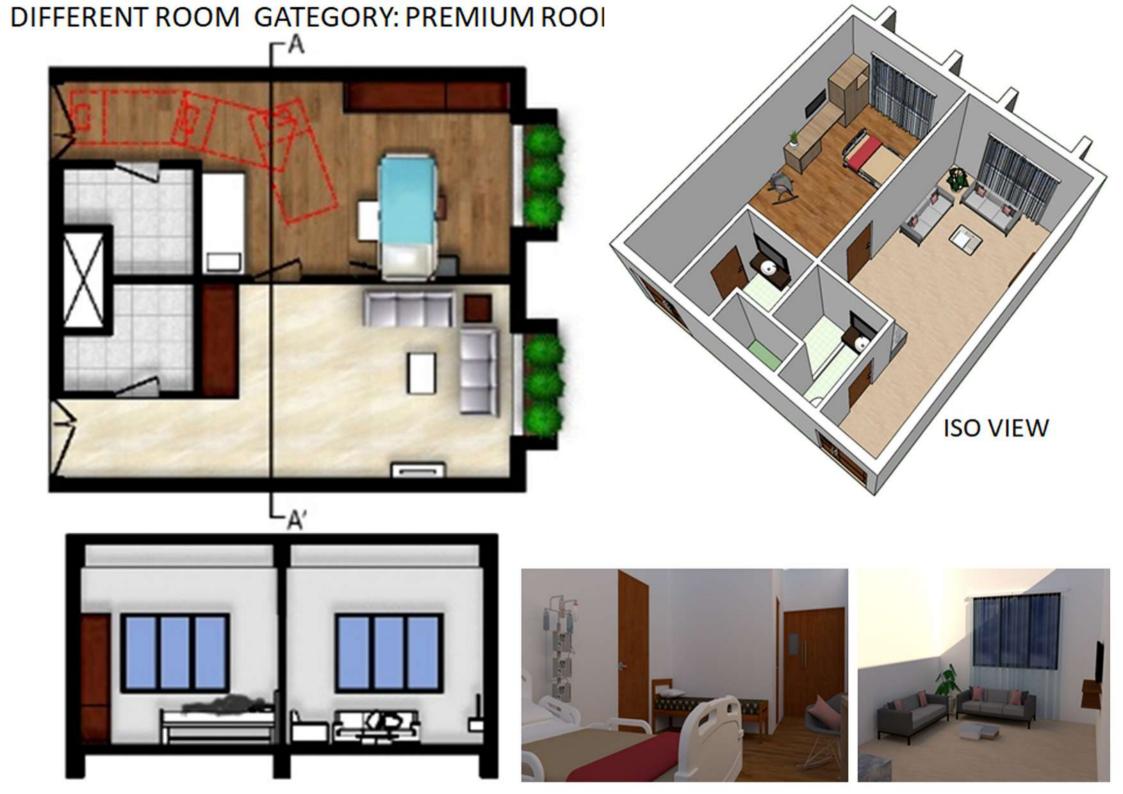




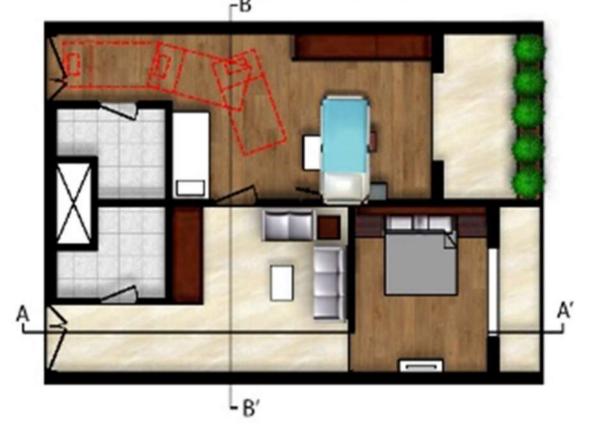


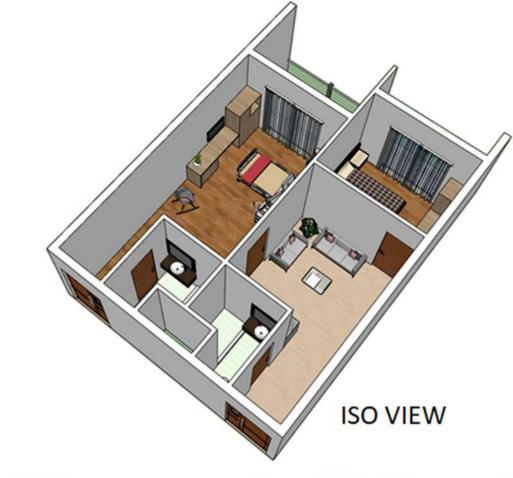
DIFFERENT ROOM GATEGORY: TWIN ROOM **ISO VIEW** SECTION - AA'





DIFFERENT ROOM GATEGORY: SUITE ROOM









ARCHITECTURE HELPS IN HEALING: 1. ART AND MUSIC

THERE CAN BE A MELODIOUD MUSIC WHICH KEEPS ON THE ENTIRE DAY THAT MAKES A PATIENT FEEL FRESH.

THERE CAN BE MOTIVATIONAL IMAGES THOUGHTS SOME WRITINGS ON THE WALL FRAMES WHICH GIVES THE PATIENT OF GEETING RECOVERED AND ENJOY HIDS LIFE.





2. SOCIAL SUPPORT:

WHEN A PERSON IS NOT WELL HE NEEDS SOME ONE AROUND TO SUPPORT HIM. TO HAVE MOTIVATIONAL TALKS.TO HAVE SOME DIFFERENT SPACE OF EXPERIENCE





3. ENTERTAINMENT:

DURING A TREATMENT A PATIENT AS WELL THE FAMILY STAYS AT A PERTICULAR FOR A LONG PERIOD OF TIME BY WHICH THEY GET BORED AND AT CERTAIN TIME THE RECOVERY AFFECTS IT AT A CERTAINLEVEL . SO AN ENTERTAIMENT PLACE IS NEEDED WATHER YOUNG OLD OR A CHILD





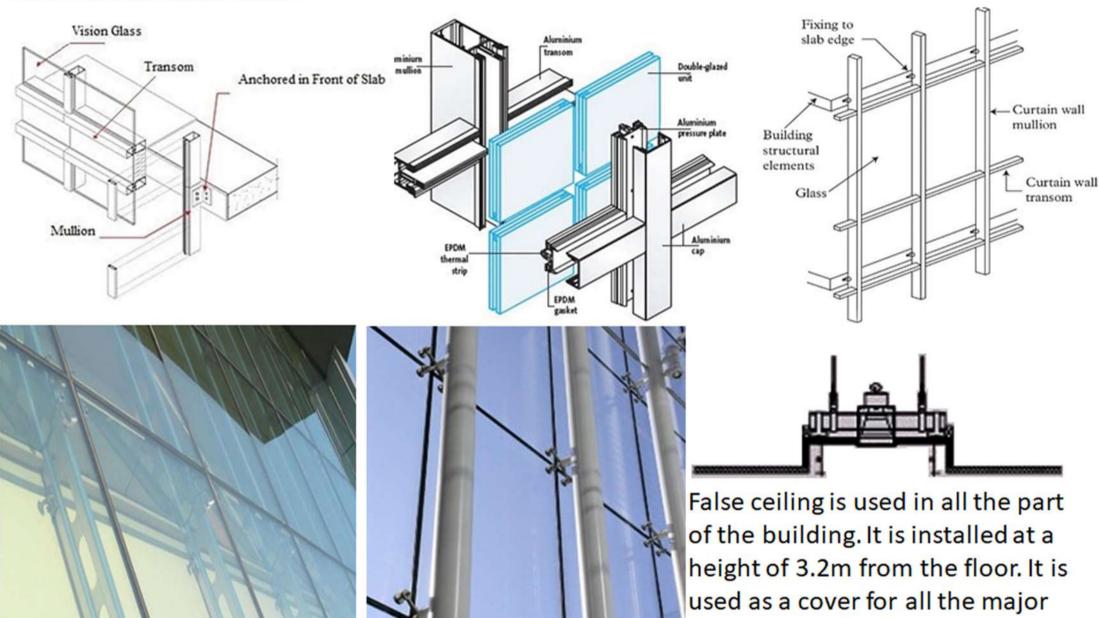
4. VIEWS:

VIEWS OF VEGETATION AND WATER APPEAR TO SUSTAIN INTEREST AND ATTENTION MORE EFFECTIVELY THEN URAN VIEWS. BECAUSE MOST NATURAL VIEWS APPARENTLY ELITE POSITIVE FEEINGS REDUCE FEAR, HOLD INTEREST AND MAY BLOCK OR REDUCE STRESSFUL THOUGHTS





CURTAIN WALL DETAIL:



height of 3.2m from the floor. It is used as a cover for all the major services. The ducting, water pipes, vents, oxygenpipe, nitrogen pipe etc all comes inside the ceiling with the artificial light.