

Transforming CONTEMPORARY HEALTHCARE



Medical Planning and Strategy

OPD
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Room
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'We create spaces that speak, Interact and Inspire'



1.0 about CDA

Our Ethos

To create an architecture that fosters wellness and innovation through highly momentous spaces that are flexible, responsive and timeless. CDA relies heavily on strategies that emulsify its client's vision with the implicit needs of the ecology at large.

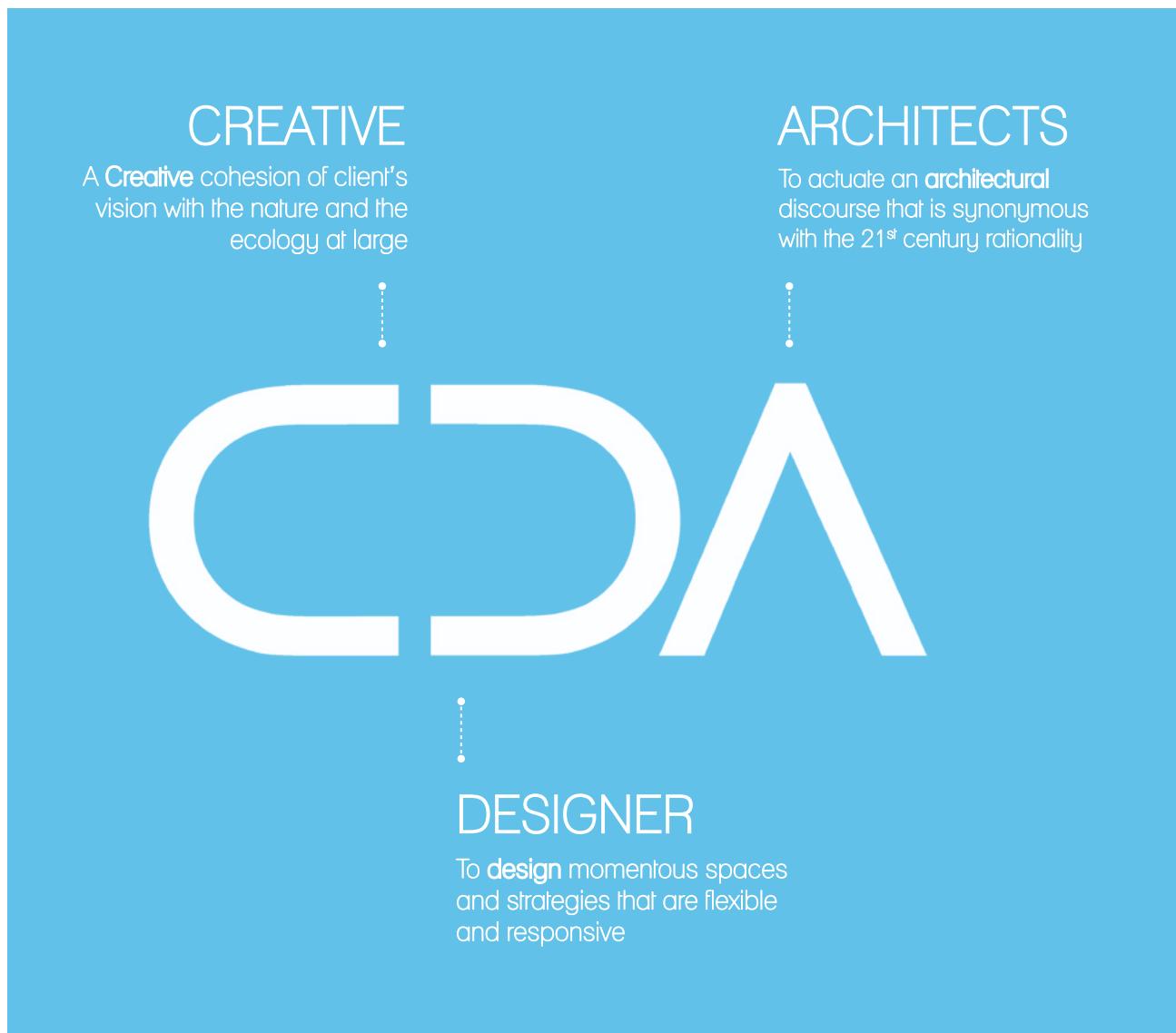






Image: Max Super Speciality Hospital, New Delhi, India

2.0 Healthcare Competence

Legacy in healthcare

CDA is one of the largest healthcare focussed design practices in India with a portfolio of over 55 completed healthcare facilities encompassing a geographical reach of the entire Asian sub-continenet and a scale expertise to tackle over 2 million square feet developments.

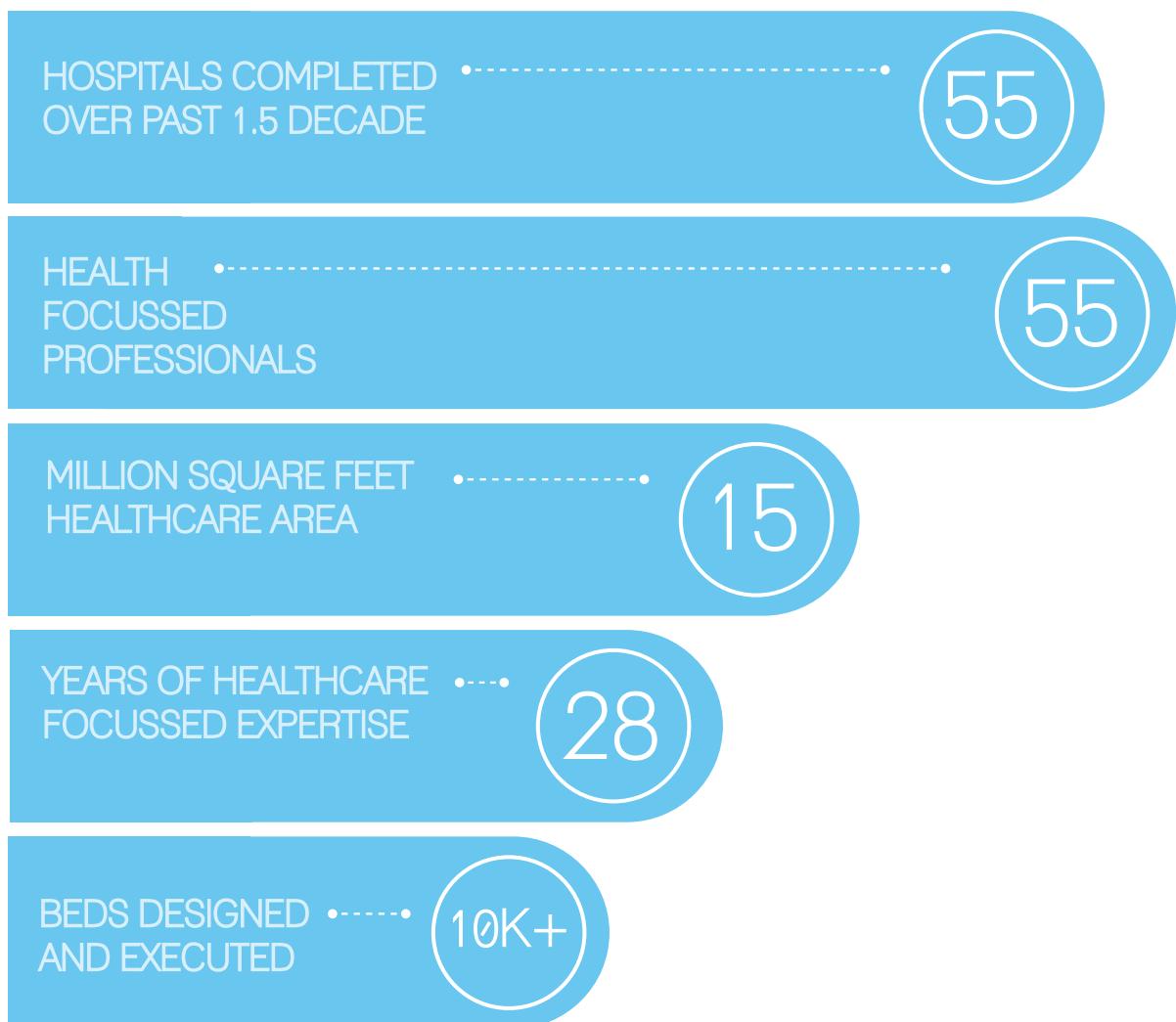


Image: Popular trends driving global healthcare landscape



INDIA
HONG KONG
MONGOLIA
BANGLADESH
AFRICA
UNITED STATES

Project Geographies

Our robust healthcare portfolio encapsulates a major component of its projects located in India along with growing international presence in Africa, China and United States.

AAKASH HEALTHCARE | DWARKA NEW DELHI
 AIIMS (ALL INDIA INSTITUTE OF MEDICAL SCIENCES) | GUWAHATI
 AIIMS (ALL INDIA INSTITUTE OF MEDICAL SCIENCES) | GORAKHPUR
 AIIMS (ALL INDIA INSTITUTE OF MEDICAL SCIENCES) | BHATINDA
 AGARWAL HOSPITAL | GANGANAGAR
 AYUSHMAN HOSPITAL | DWARKA NEW DELHI
 BRIGHTSTAR HOSPITAL | MORADABAD
 BLK HOSPITAL | PUSA ROAD NEW DELHI
 COCOON BIRTHING CENTER | JAIPUR
 COSMETIC CENTER | GHAZIABAD
 DIYOS MENS HEALTH CENTER | NEW DELHI
 DELHI HEART INSTITUTE | BHATINDA
 DR BHARTI OPHTHALMOLOGY | NEW DELHI
 GURU AMARDAS HOSPITAL | LUDHIANA
 HALDIRAM MOOLCHAND HOSPITAL | BIKANER
 HKSD HEALTH CITY | HISAR
 IRENE HOSPITAL | NEW DELHI
 JAIN HOSPITAL | NEW DELHI
 JINDAL HOSPITAL | RAIGARH
 KINGS COLLEGE HOSPITAL | CONCEPT
 LA MIDAS CENTER | NEW DELHI
 LAXMI NARAYAN DIAGNOSTICS | NEW DELHI
 MAHATMA GANDHI MEDICAL UNIVERSITY | JAIPUR
 MARBLE CITY HOSPITAL | JABALPUR
 MAX SUPER SPECIALTY HOSPITAL | DEHRADUN
 MAX SUPER SPECIALTY HOSPITAL | SAKET NEW DELHI
 MAX SUPER SPECIALTY HOSPITAL | SHALIMAR BAUG NEW DELHI
 MAX SUPER SPECIALTY HOSPITAL | PATPARGANJ NEW DELHI
 MAX SUPER SPECIALTY HOSPITAL | BHATINDA
 MAX SUPER SPECIALTY HOSPITAL | MOHALI
 MAX SUPER SPECIALTY HOSPITAL | GREATER NOIDA
 MAX SUPER SPECIALTY HOSPITAL | VAISHALI
 MEDICOVER | NEW DELHI
 MISSION HOSPITAL | DURGAPUR
 MGM EYE HOSPITAL | RAIPUR
 NARINDER MOHAN HOSPITAL | GHAZIABAD
 NEELKANTH HOSPITAL | NEW DELHI
 NANAVATI HOSPITAL | MUMBAI
 NOVA IVF | NEW DELHI
 PARAS HOSPITAL | SRINAGAR
 PSRI HOSPITAL | NEW DELHI
 RAJSHREE HOSPITAL | INDORE
 RAMAKRISHNA CARE HOSPITAL | RAIPUR
 REGENCY MEDICAL CENTER | TANZANIA
 SAKET CITY HOSPITAL | NEW DELHI
 SAROJ HOSPITAL | NAYA RAIPUR
 SARVODAYA HOSPITAL | JALANDHAR
 SARVODAYA HOSPITAL | FARIDABAD
 SANKALP HOSPITAL | AMBIKAPUR
 SEWA PANTHI HOSPITAL | BHATINDA
 SHANTI MUKAND HOSPITAL | NEW DELHI
 SONI HOSPITAL | BILASPUR
 SRS HOSPITAL | FARIDABAD
 TRIPATHI HOSPITAL | NOIDA
 YASHODA HOSPITAL | KAUSHAMBI
 YASHODA HOSPITAL | INDIRAPURAM

and
counting...

Robust Healthcare Portfolio

Our growing healthcare portfolio encompasses hospital facilities of diverse scale, typology, specialty, geography and uniquely interesting peculiarities!



Image: Aakash Super Specialty Hospital, New Delhi, India

EMINENT CLIENTELLE

About 65% of CDA's projects are with repeat clients which include few of the largest healthcare provider groups of India, both within the public as well as private domain. CDA is a proud partner behind the entire fleet of hospitals by Max Healthcare and Radiant Lifecare in private sector and the prestigious All India Institute of Medical Sciences at Guwahati in the public sector.



• 2800 Beds



• 1400 Beds



• 1400 Beds



• 750 Beds



• 350 Beds



• 350 Beds



3.0 Healthcare Landscape

Global Healthcare at glance

Healthcare is indeed one of the most rapidly evolving precincts that is highly susceptible to technological mutations, costs, the quest for better outcomes and more recently the risk of pandemics! Amidst these, healthcare organization globally strive to enhance patient experience, recovery rates while ensuring that the facilities adhere to the triple bottom line which is essentially a framework that attempts to realise sustainability in the areas of social, environmental as well as financial domain. It is undeniable that technology is one of the dominant forces that drive any industry and healthcare is no exception. With equipments getting smaller, robotics replacing humans and the insurgence of virtual or digital healthcare that focuses on preventive care instead of curative, are a few trends that healthcare is moving towards. While patient centric care is said to be at the front foot of most design concepts, we believe that efficacy of this notion still has a long way to go!

- 01 • **TECHNOLOGY**
Rapidly evolving equipment and care delivery methods 
- 02 • **CAPITAL COST**
Extensive capital costs for equipment and infrastructure 
- 03 • **EVIDENCE BASED**
Use of Evidence Based Design for better outcomes 
- 04 • **CONSUMER EXP.**
Curating unique experiences for each of the end users 
- 05 • **INSURANCE**
Funding models for healthcare costs 

Image: Popular trends driving global healthcare landscape



Contemporary Indian Healthcare

The Indian healthcare landscape emanates from its unique cultural milieu and challenges. Whilst most of the western drivers discussed previously are applicable here in various ways, however the primary agents that drive India's healthcare system include the dilating population growth along with its disparate ownership models. These unique challenges call for unique programming and design models that emulate India's social, cultural, economic and environmental ethos effectively. Here, the connotation of 'CX-Consumer Experience' or Patient Centered Care takes an even more critical role as it allows us to understand the attributes and nuances of different categories of patients within a developing economy, in order to curate sustainable and successful healing journeys. The team at CDA has a robust understanding of the aforementioned areas pertaining to its two and a half decade of exhaustive healthcare design experience pan India encapsulating a wide latitude of scales, specialties, contexts and geographies.

- 01 • OWNERSHIP
Public or Private type dictate the project 
- 02 • TECHNOLOGY
Rapidly evolving equipment and care delivery methods 
- 03 • POPULATION FLUX
Rapidly ballooning population demands unique flexibility 
- 04 • CAPITAL COST
Extensive capital costs for equipment and infrastructure 
- 05 • CONSUMER EXP.
Curating unique experiences for each of the end users 
- 06 • REGULATIONS
Statutory regulations for cost of care delivery 

Image: Popular trends driving Indian healthcare landscape

4.0 Why CDA?

CDA's connotation of Healthcare

At CDA, we believe Hospitals are indeed a nexus of multitudinous departments which in turn interact with a plethora of distinct patient type, each with a unique cognitive disposition. CDA strives to make a patient's healing journey effectual and the process of care delivery sustainable. In order to realise this goal, we endeavour to design facilities that are responsive to patients, their loved ones as well as the care givers through mechanisms that ensure lean and sustainable operation.

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Statutory regulations for cost of care delivery 

Image: CDA'S Four Tenets of Healthcare Design

CDA's Four Tenets of Healthcare Design

CDA's global outlook along with its local expertise allows it to streamline every healthcare project that comes on board by specifically addressing each of the unique facets of healthcare in and around India. It employs its 'Healthcare Design Toolkit' which essentially comprises of four primary tools i.e. an outcome driven approach through Evidence Based Design for better health and organizational outcomes, the resolution design into flexible adaptive and modular prototypes that are economic and operationally efficient and perpetual. This is followed by the notion of HCX or "Healthcare Consumer Experience" that rationalises all the nuances of UX (User Experience) and CX (Consumer Experience) into a healthcare specific domain for much greater efficacy. Further, CDA is a strong advocate of LEAN design methodology that aims to value engineer processes, products, architecture and experiences.



EBD EVIDENCE
BASED DESIGN



FLEXIBILITY
MODULARITY
ADAPTABILITY

HCX HEALTHCARE
CONSUMER
EXPERIENCE



LEAN DESIGN



Fire Exit
अग्नि निकास



5.0 How we partner with clients?

Our services

CDA partners with its clients in a highly flexible format regardless of the work scale, scope and stage, offering services that range from Masterplanning, Architecture and Interior to strategy design, feasibility studies along with planning and programming expertise. Additionally, CDA also has a strong research arm that specialises in POE's (Post Occupation studies), Innovation in Healthcare user Experience and simulated realities.

01

MASTERPLANNING

Urban and Masterplanning
Health cities and campuses



02

ARCHITECTURE

Comprehensive design, planning
and construction documentation



03

SPATIAL DESIGN AND INTERIOR

Comprehensive clinical and
non-clinical fit-outs



04

PLANNING AND STRATEGY

Developing service profile and Lines of service
along with strategic phasing and deployment



05

MEDICAL PLANNING & PROGRAMMING

Medical Planning expertise across all
departments and lines of services



06

HuX - HEALTH USER EXPERIENCE

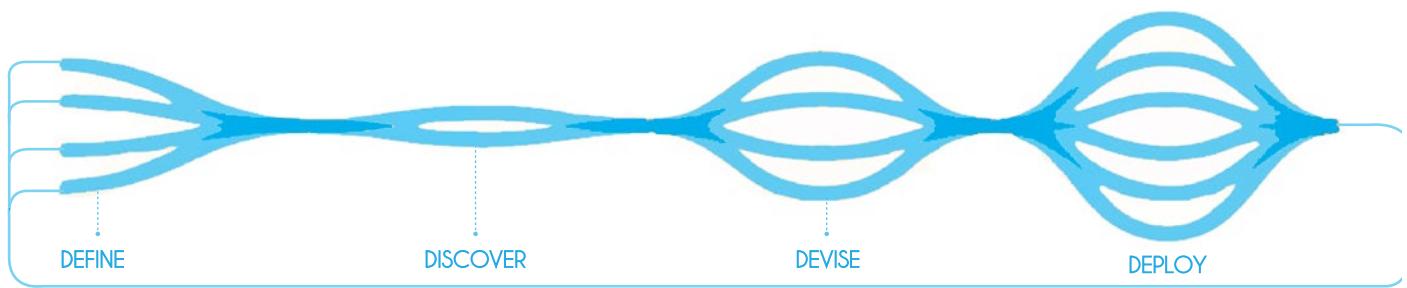
Streamlining User experience through branding, flow
simulation, graphic design, VR and AR environments



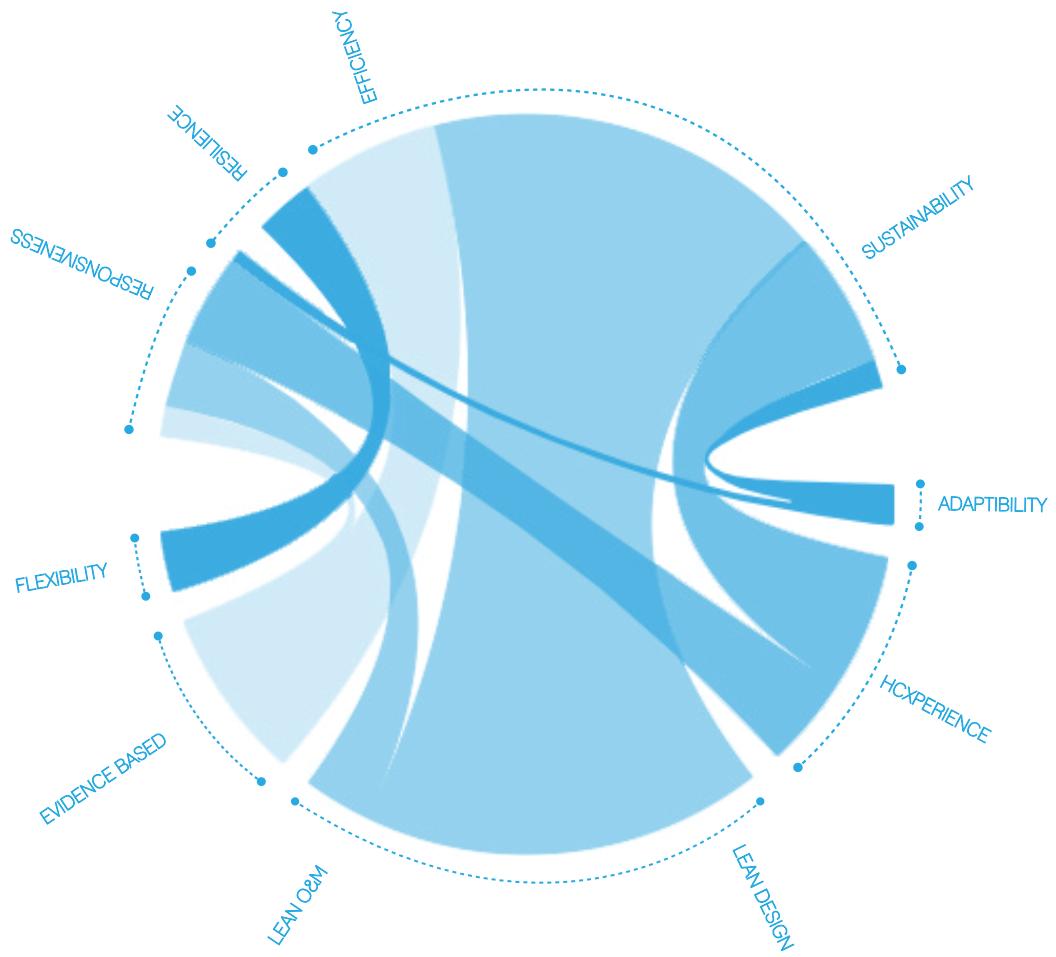


Our Process

Every project at CDA undergoes a four-tier iterative process that we call as the '*tetraD*' i.e. Define - Discover - Devise - Deploy. This is a cylo-linear process that begins with an exhaustive brainstorming of the design problem which is followed by discovering innovative solutions that are sustainable and responsive. The third step 'Devise' plunges into schematics and details of the proposed response making its way to the final deployment that acts as a catalyst to inform our future work with evidence!



Design Process - '*tetraD*'



CDA's Healthcare Tenets in action - Contribution by weight



6.0 Selected Healthcare Archives

Healthcare project streams

At CDA, we categorise our healthcare architecture into four primary streams i.e. Green-field campus, Green-field Hospitals, Brown-field Expansions and Adaptive Reuse. Our healthcare portfolio has projects ranging from large scale medical campuses and hospitals to expansions and conversions of existing alternate use infrastructure into fully operation healthcare facilities.

01 GREENFIELD CAMPUS

Comprehensive design of sustainable medical campuses, masterplans, health cities and university campuses.



02 GREENFIELD HOSPITALS

Comprehensive design of Super-Specialty and Multi-Specialty hospitals ranging from 50 all the way upto 5000 beds plus.



03 BROWNFIELD EXPANSIONS

Seamless extensions and expansions of existing facilities including strategic phasing, planning and implementation.



04 ADAPTIVE RE-USE

Strategic conversions of existing, alternate use facilities into streamlined hospitals and health facilities through Lean methodologies.



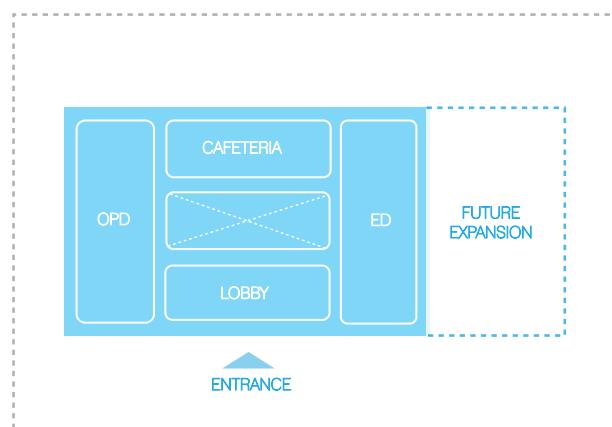
6.1 Aakash Healthcare

Project Type: Greenfield Hospital
Project Area: 330,000 Sqf
Beds: 330 Census beds
Location: New Delhi, India



Aakash: The beacon of contemporary Indian Healthcare

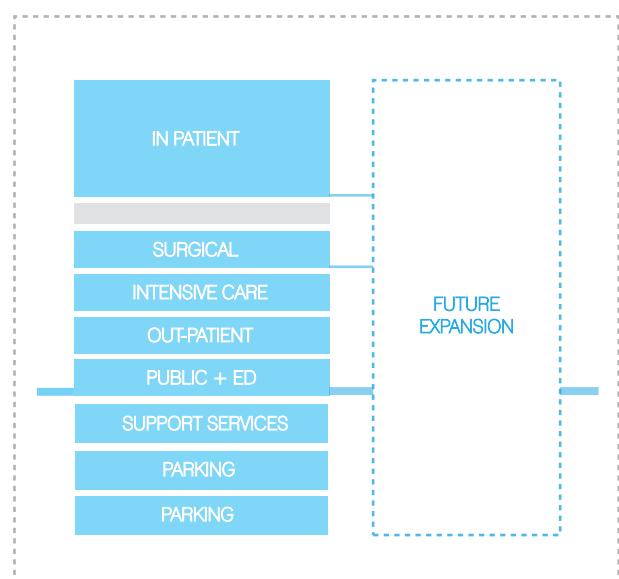
Aakash Healthcare is a green field development on a sprawling 4 acres of land in a dense urban pocket of New Delhi. The project was conceptualised as a concise block with carefully worked out departmental relationships, around an open, central courtyard. Curated around the principles of solar passive design, the longer side of the building aligns perfectly along the N-S orientation, ensuring abundant natural light in the building during most times of the day. The design attempts to make patient and the visitor feel congenial rather than being an immigrant to a serious 'Institutional' setting by creating a pleasing multi-height entrance foyer, embellished in warm healing colours which transcends with an ambrosial aroma of brewing coffee at one corner of the lobby.



Planning Scheme: Compact - Courtyard concept



Elaborating on the aspects of social sustainability, Aakash healthcare's interior are a holistic consequence of the principle of healing architecture. The airy central courtyard has been designed as a 'Japanese Zen garden' with a play of levels, greenery and a small water body. Similarly, the refuge area at the fifth-floor level has been immaculately landscaped into a healing garden that fosters well-being amongst the in-patients. Furthermore, the large green patch adjacent to the emergency and the out-patient departments, is designed as a therapeutic healing garden that attempts to lift and enliven the minds of the patient and the relative. The large windows ensure optimum daylight and regulated indoor air quality. Functionally, The hospital has the state-of-the-art equipment's such as the Pneumatic chutes, a fully integrated BMS and high infection control finishes.



Vertical stacking Scheme: Breitfuss model

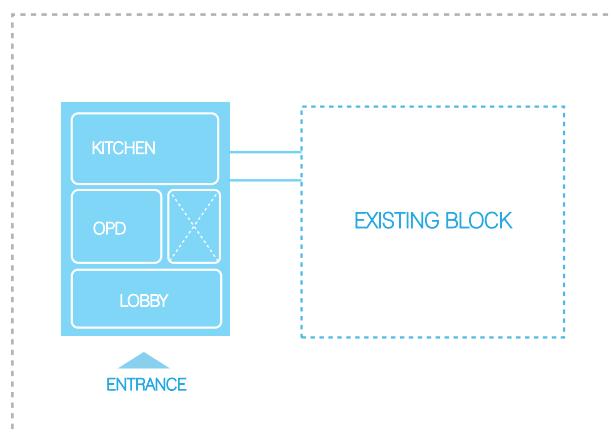
6.2 Max Healthcare

Project Type: Greenfield Expansion
Project Area: 154,000 Sqf
Beds: 190 Census beds
Location: Vaishali, UP, India



Max Healthcare Vaishali expands using an Evidence Based approach

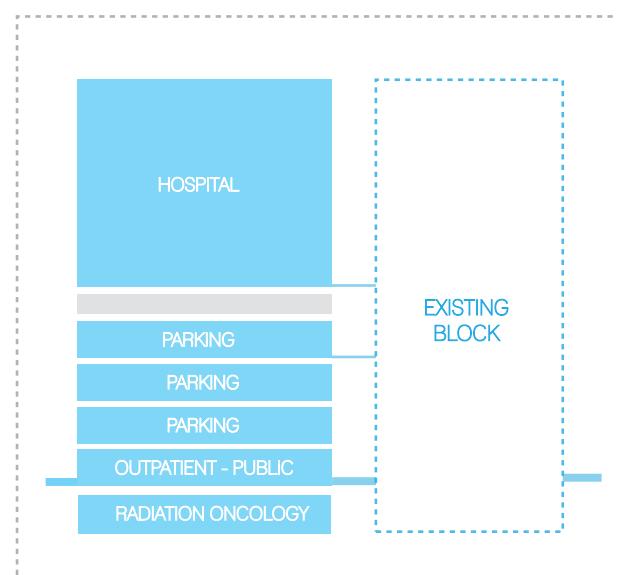
The most recent addition to Max Healthcare's line up of Super Specialty Hospitals is the imposing new mixed-use facility at Vaishali, Uttar Pradesh. The new hospital, primarily oncology focused, renders a seamless functional extension of the existing block, along with a highly responsive healing environment. Its location in a highly dense neighborhood, and within a very competitive healthcare hub of East Delhi, made it critical for us as designers to push the boundaries of patient care and satisfaction through design, to allow the new hospital to emerge as a beacon of contemporary healthcare in India. The new facility's planning and interior relies heavily on principles of 'Evidence Based Design' for more robust outcomes in response to its every planning move.



Planning Scheme: Compact - Courtyard concept



The existing hospital was a seven story structure accomodating about 200 beds alongwith one basement pedestal for the future block. The basement housed two structural shells for its LINACs and some support services. The existence of only one basement level dissolved any possibility of creating the required parking spaces below grade. The planning team resorted to consider the possibility of a mixed-use tower with parking floors at bottom followed by hospital floors above to enable the utilization of maximum FSI alongwith creation of substantial parking spaces. Max Vaishali also employs 'Evidence Based Design' which is essentially the use of validated design moves to achieve better outcomes for a variety of healthcare design aspects. For e.g. The relocation of identical ambulatory pods, each containing 5 exam room, one consultation room and some support services for simpler way-finding and streamlined care giver operation.



Vertical stacking Scheme: Breitfuss model

6.3 Nanavati Hospital

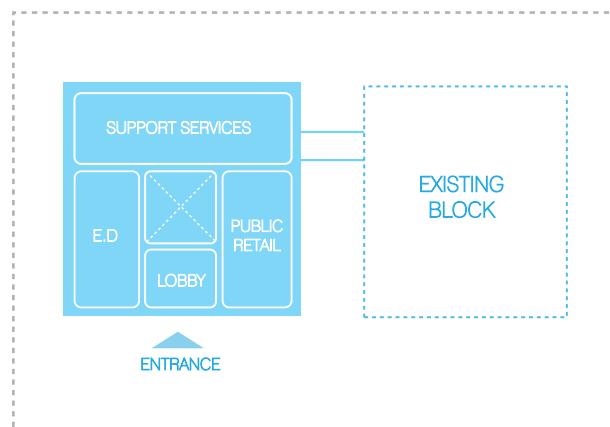
Project Type: Brownfield Expansion
Project Area: 730,000 Sqf
Beds: 700 Census beds
Location: Mumbai, India



 **Nanavati**
Super Speciality Hospital

Nanavati Super Specialty Hospital Expansion

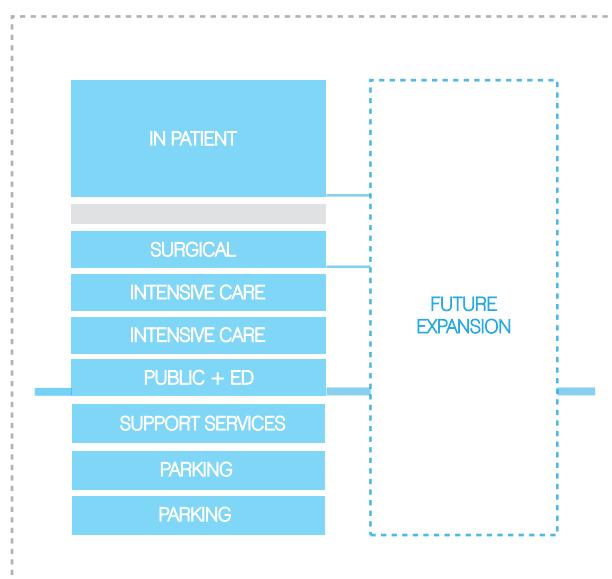
A 700 bed expansion of the landmark Dr. Balabhai Nanavati Super Specialty Hospital in Mumbai is one of the flagship projects of Radiant Life Care Group led by Promoter Abhay Soi. The massive expansion shall stand twelve story high along with three basements that accomodate mechanised parking stacks, support services along with an ellaborate Radiation Oncology department with a line up of three state-of-the art ViewRay Linear Accelerators. On the planning front, the new tower comprises of a generous fifty thousand square feet floor plate with 17 high speed elevators for a seamless operation. This hospital being a tight fitting block in a dense urban context finds respite through a central courtyard atrium that brings vibrance through daylight and enhanced spatial experience.



Planning Scheme: Compact - Courtyard concept



Elaborating on the aspects of social sustainability, Nanavati Hospital's interior are a holistic consequence of the principle of healing architecture. The airy central courtyard has been designed as a 'Japanese Zen garden' with a play of levels, greenery and a small water body. Similarly, the refuge area at the fifth-floor level has been immaculately landscaped into a healing garden which fosters well-being amongst the in-patients. Furthermore, the large green patch adjacent to the emergency and the out-patient departments, is designed as a therapeutic healing garden that attempts to lift and enliven the minds of the patient and the relative. The large windows ensure optimum daylight and regulated indoor air quality. Functionally, The hospital has the state-of-the-art equipment's such as the Pneumatic chutes, a fully integrated BMS and high infection control finishes.



Vertical stacking Scheme: Breitfuss model

6.4 Max SSH Hospital

Project Type: Greenfield Hospital

Project Area: 330,000 Sqf

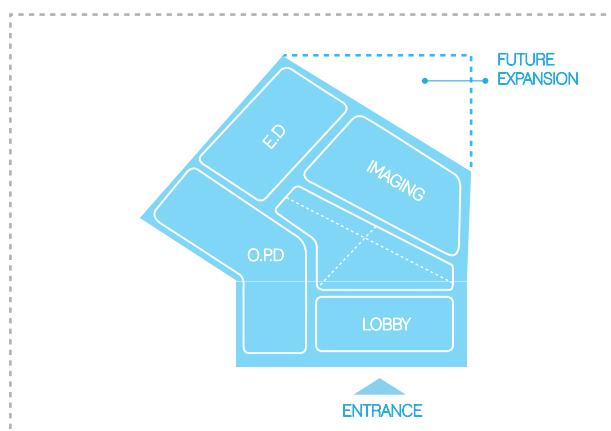
Beds: 300 Census beds

Location: New Delhi, India



Max Super Speciality Hospital Shalimar Baug, New Delhi

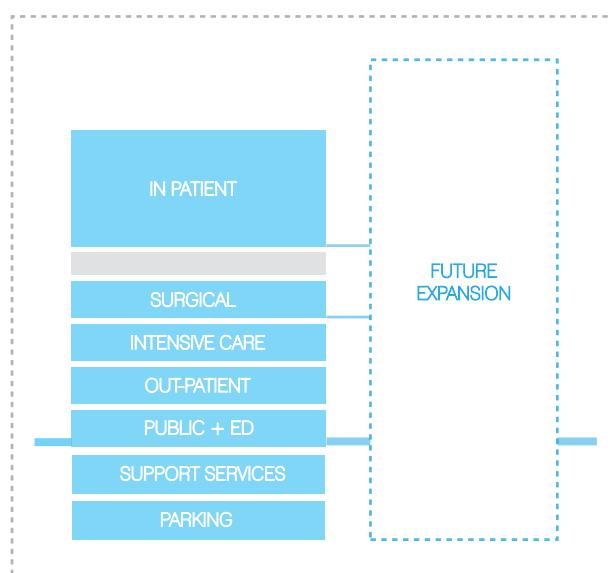
Max Super Speciality Hospital, Shalimar Baug was designed with a primary emphasis on patient comfort and experience. The hospital complex that is ultra-efficient, yet aesthetically beautiful, with a "healing" environment that is comforting and uplifting. The design intent was to create slick circulation systems to seamlessly orient patients, staff, and visitors beginning at the first entry to the site. A distinctive plan at first glance, is set out primarily along the north east axis, considered to be the most preferred orientation according to Vaastu. The facility has the visitor entrance along the NE, emergency entrance along the west and a segregated service entrance along the east. All the outpatient facilities are on the lower floors, followed by critical care and finally the inpatient facilities as we go up the stack.



Planning Scheme: Compact - Courtyard concept



The interior follows a beige and green colour scheme. The beige has been thoughtfully chosen for its quality of being a 'healing colour' and green being the brand colour of 'Max'. The entrance lobby forms a circular triple height glass atrium that enhances the volume of lobby and the overall look and feel of the entrance and floods the space with daylight. The tastefully done interiors which lift the overall ambience of the hospital also include a 'Café coffee day' counter and a whole food café tucked into the entrance foyer. A very interesting thought forms the genesis of this idea which says, a hospital should not appear to be a place of sick, it should rather smell of coffee to enliven the aura of the space with vibrance'. It also has a state-of-the art doctor's lounge, for all in-house and other doctors. It is a space which is equipped with a library, a whole food café; recliners etc. for the doctor's to relax and rejuvenate during non-duty hours.



Vertical stacking Scheme: Breitfuss model

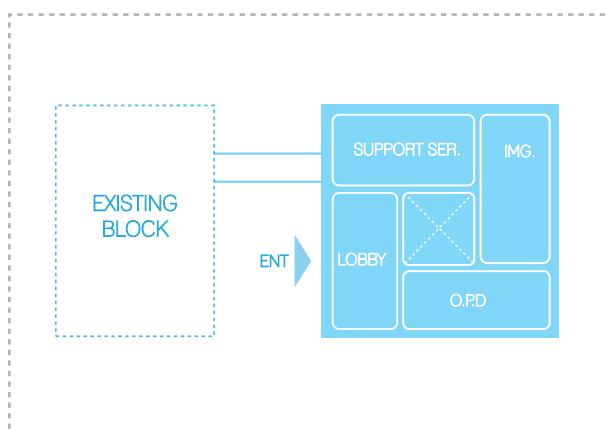
6.5 RKCH Care Hospital

Project Type: Brownfield Expansion
Project Area: 450,000 Sqf
Beds: 450 Census beds
Location: Raipur, India



Ramakrishna Care Hospital, Raipur

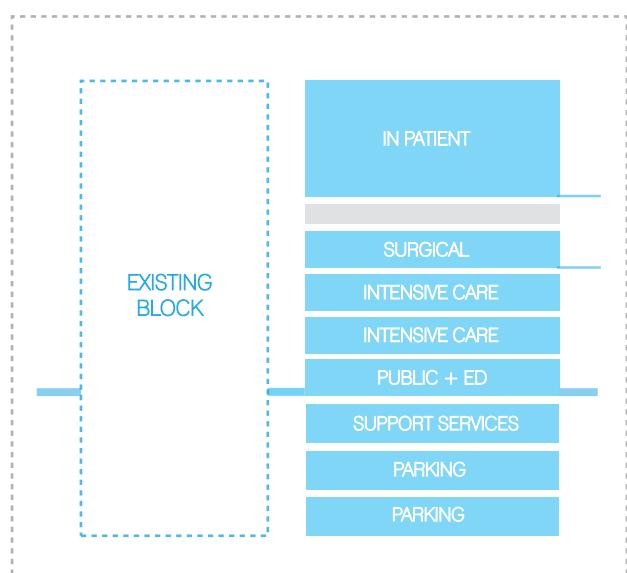
Ramakrishna Hospital is one of the premier healthcare institutions in Chattisgarh, Raipur which was first conceived in 2003 with about 200 beds. The hospital, now being promoted by the Dubai based Abraaj group has been growing ever since with the most recent expansion commenced in 2019, bringing the total construction area to over 450,000 Square feet and about 450 beds. All the subsequent expansions were done as per the neighbouring land availability, which made the overall integration of the blocks challenging yet interesting. The overall campus consists of three distinct block that are seamlessly connected through overhead bridge connection and below grade basement tunnels for a streamlined functioning.



Planning Scheme: Compact - Courtyard concept



The new addition is a holistic advancement of existing facility with a more dynamic & patient friendly approach. The magnificent entrance portico rested between the two blocks demands prominence and attention. The re-planned vehicular circulation allows for the visitor to drop-off at the entrance of both the blocks before parking their cars into the basement. The new expansion being a tight-fitting block had no major visual connections with respect to the scale of the building. The exteriors were meant to be an understated yet modern prototype of the existing block's design. The restricted design approach creates a contemporary rendering of the existing block, manifesting evolution. The exterior palette is mainly in whites which is colour of tranquillity, complimented by beige highlights. The underplay of the exterior is broken by more pedestrianised elements such the protruding out coffee shop and green wall.



Vertical stacking Scheme: Breitfuss model

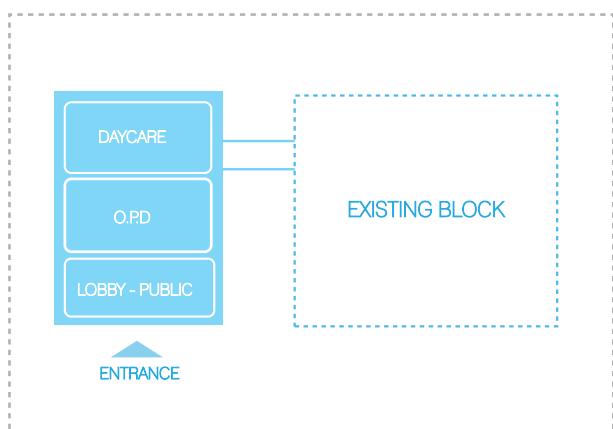
6.6 PSRI Hospital

Project Type: Brownfield Expansion
Project Area: 200,000 Sqf
Beds: 200 Census beds
Location: New Delhi, India



Pushpawati Singhania Super Specialty Hospital Expansion

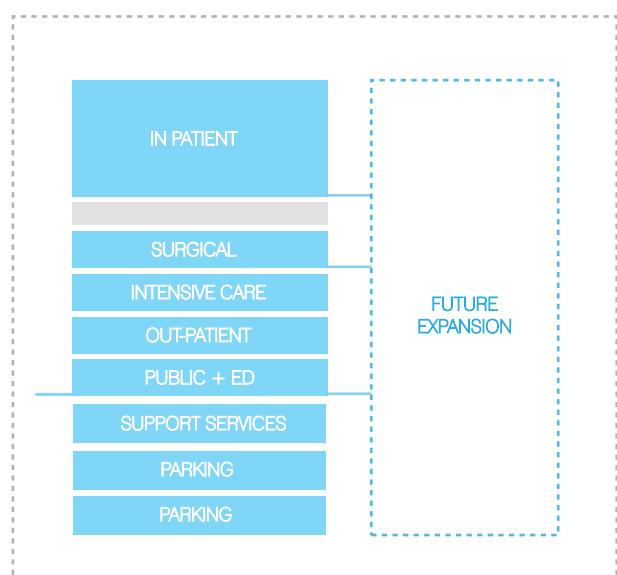
With the human population ballooning incessantly and its detrimental lifestyles, the need for supplemental healthcare infrastructure has been on rise lately. PSRI hospital, A decade old facility housed in the suburbs of New Delhi felt its need to expand on a 1.5-acre parcel of land, abutting the existing facility. The new wing was envisaged as a multi-specialty expansion of the existing with discrete entries, out-patient, day care and in-patient facilities and jointly usable specialised departments such as biliary sciences, dialysis etc. Due to the unprecedented expansion, the two isolated blocks were supposed to be as unified as possible making the functioning of departments efficient and the circulation of patients and staff easier.



Planning Scheme: Compact - concept



In order to seamlessly integrate the two blocks, an iconic bridge connection overlooking the towering green wall is made on the first floor, further accentuating the transition from old to the new block. Moving up, Departments such as dialysis, Preventive health etc are housed on the first floor followed by Intensive care Units on the second and OT's on the third floor. The In-patient floors are on the top, sandwiched by a service floor in between the OT and IPD floor, making the augmentation of services much easier such as housing the AHU's of the OT's and the dispersion of the plumbing and medical shafts of the IPD floors. This expansion is a significant model of how existing healthcare facilities can grow with the increase in the demand for beds and facilities. The functional unification of the new block through basement tunnels and over heads bridge connections testify the approach towards unified growth of existing healthcare facilities.



Vertical stacking Scheme: Breitfuss model

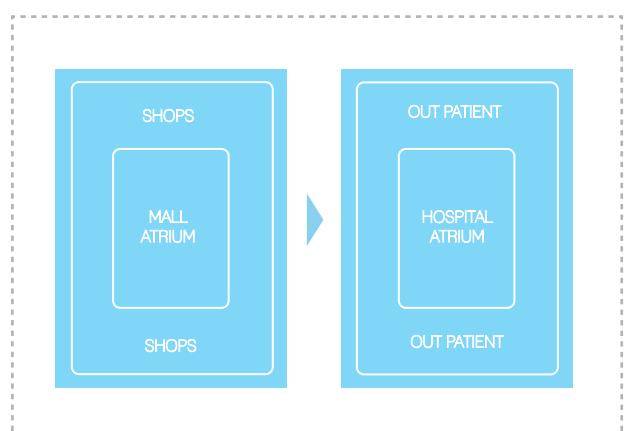
6.7 Yashoda Hospital

Project Type: Adaptive Reuse
Project Area: 280,000 Sqf
Beds: 220 Census beds
Location: Kaushambi, UP, India

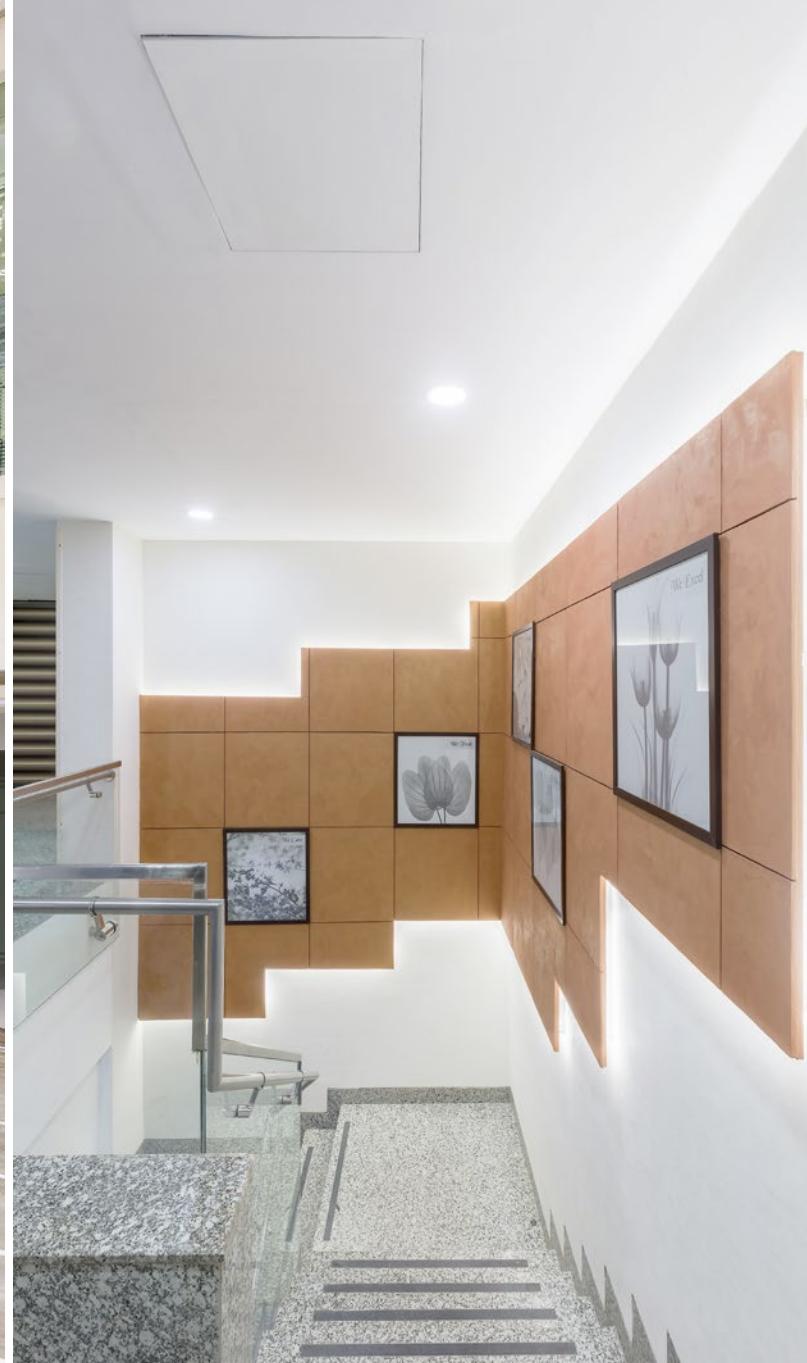


Yashoda Super Specialty Hospital at Kaushambi

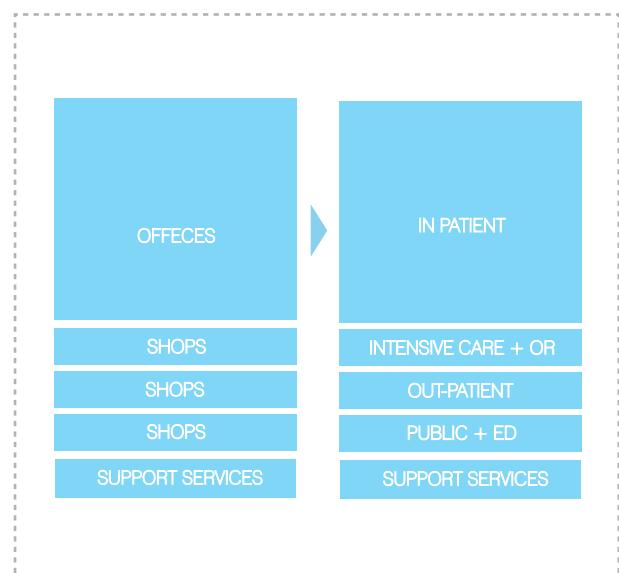
The emergence of mall culture in India and the buoyant growth trend of the real estate market led to the construction of a plethora of shopping malls. Yashoda hospital which started operation in a small segment of Shoprix mall in Kaushambi gradually expanded to the entire floor area of the mall thereby putting the building to an altogether better use. A rather challenging brown field project in terms of the transmutation of a 1.8 Lakh Sq. Feet retail space into a responsive healthcare environment was intriguing. The mixed-use nature of the existing facility with a 20-storey housing above further challenged the augmentation of services which are generally relieved upwards. Nevertheless, the expansive mall atriums served as excellent lobby spaces with fantastic visual connections across departments.



Planning Scheme: Central Atrium



The two available entrances were tactfully re-organised for the visitors and emergency. The massive floor plate allowed the entire out-patient department, radiology, emergency and the day care facilities to set-in making the patient and visitor navigation much easier. Every department of the ground floor transitions into another through multi-height spaces that enhance patient experience. Moving up, there are designated elevator cores discrete for hospital staff, visitor's and service .This revamp also tries to highlight the stellar environmental and financial upsides of brown-field projects in terms of substantially minimizing the embodied energy that goes into the development of the infrastructure and also reducing the turn-around time compared to that of a green field construction. This project is indeed a significant epitome of adaptive-reuse that provides some respite to our depleting resources and vandalised ecosystem.



Vertical stacking Scheme: Breitfuss model

6.8 BLK Hospital

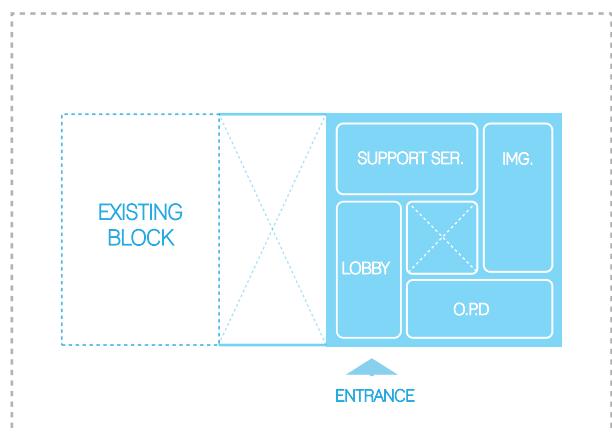
Project Type: Brownfield Expansion
Project Area: 640,000 Sqf
Beds: 600 Census beds
Location: New Delhi, India

It's not just about patients,
it's about people



BLK Super Specialty Hospital Expansion

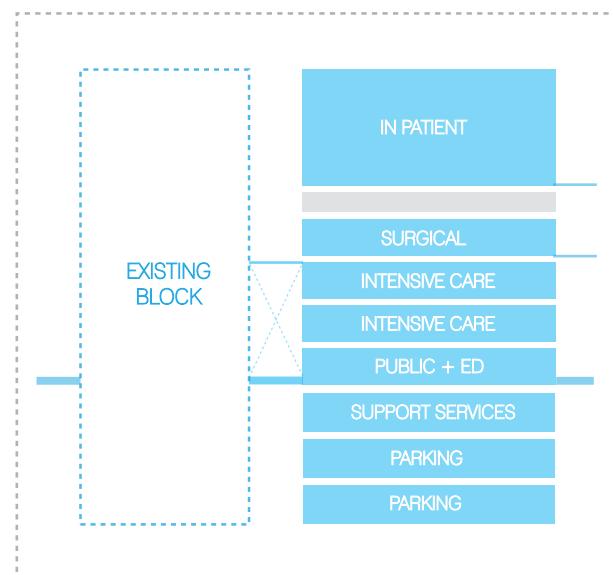
A 650 bed expansion of the landmark Dr. B.L Kapoor i Hospital in New Delhi is onother flagship projects of Radiant Life Care Group led by Promoter Abhay Soi. The massive expansion shall stand fifteen story high along with four basements that accomodate mechanised parking stacks, support services along with an ellaborate Radiation Oncology department with a line up of four state-of-the art radiation accelerators. On the planning front, the new tower comprises of a generous forty thousand square feet floor plate with 19 high speed elevators for a seamless operation. Due to the paucity of space at site, the new development abuts the existing block creating a multi-height atrium that gets sandwiched between the old and the new.



Planning Scheme: Compact - Courtyard concept



Elaborating on the aspects of social sustainability, BLK Hospital's interior are a holistic consequence of the principle of healing architecture. The airy central courtyard has been designed as a 'Japanese Zen garden' with a play of levels, greenery and a small water body. Similarly, the refuge area at the fifth-floor level has been immaculately landscaped into a healing garden which fosters well-being amongst the in-patients. Furthermore, the large green patch adjacent to the emergency and the out-patient departments, is designed as a therapeutic healing garden that attempts to lift and enliven the minds of the patient and the relative. The large windows ensure optimum daylight and regulated indoor air quality. Functionally, The hospital has the state-of-the-art equipment's such as the Pneumatic chutes, a fully integrated BMS and high infection control finishes.



Vertical stacking Scheme: Breitfuss model

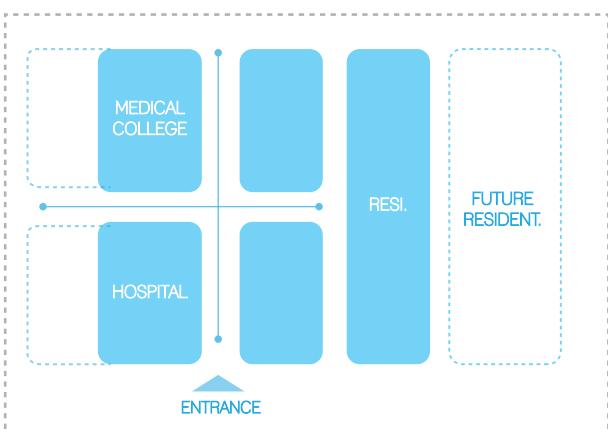
6.9 AIIMS Guwahati

Project Type: Green field Campus
Project Area: 1140,000 Sqf
Beds: 750 Census beds
Location: Guwahati, Assam, India



All India Institute of Medical Sciences at Guwahati, Assam.

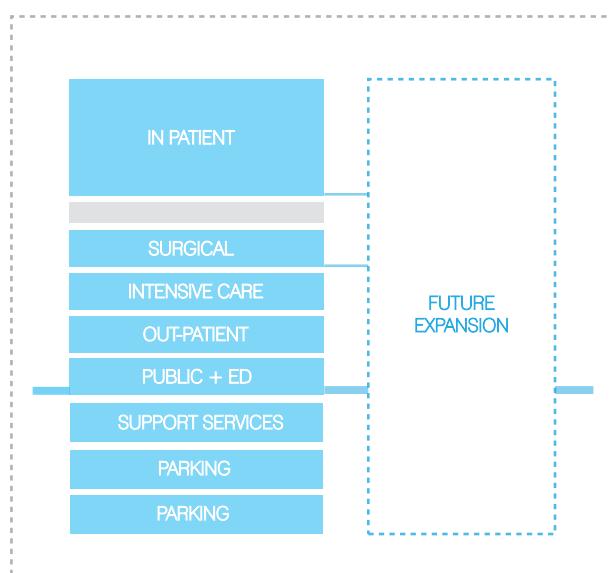
AIIMS Guwahati is one of the signature project of the Government of India's PMSSY that aims to elevate the quality and access of public health systems in India. The Institute accommodates 750 Bedded state-of-the-art multi-Specialty Hospital, a Medical College (at undergraduate level with annual intake of 100 students and PG/Doctoral Courses in various Specialty / super-Specialty disciplines) and Nursing College with annual intake of 60 students, AYUSH block, Auditorium, Night Shelter, Guest House, Hostels, Residential facilities, Boundary wall with Gates & Security Cabins and other ancillary requirements to make the campus operationally and environmentally sustainable. Additionally, the projects is designed to achieve a GRIHA 5 star rating.



Planning Scheme: Central vista - Institutional ave



A few distinctive facets of this project includes catering for different functional requirements of various end users with creative indoor spaces, surroundings, better circulation and flexibility in space planning. Additionally, it relies heavily on a climate responsive architecture with integration of daylight and electric light, thermal comfort, ventilation. It also accommodates a water and solid waste management with waste water recycling, water conservation and harvesting system. The landscape design responds to the existing site terrain conditions, seamless traffic circulation patterns and an emphasis on indigenous vegetation and planting. The implementation of the project is based on an EPC model where CDA is actively involved in both the design concept as well as the detailed design phase, and is expected to commence by end of 2022.



Vertical stacking Scheme hospital: -

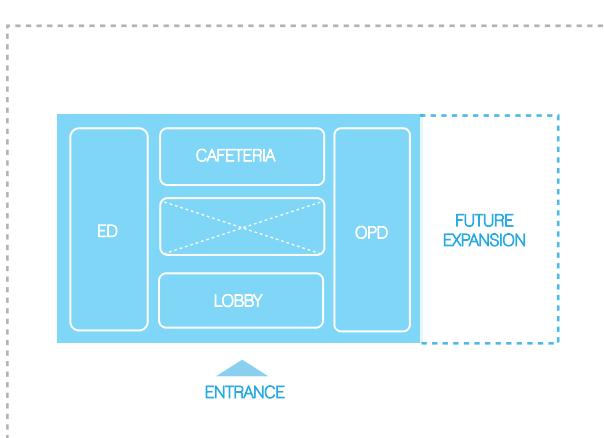
6.10 Max Dehradun

Project Type: Greenfield Hospital
Project Area: 370,000 Sqf
Beds: 300 Census beds
Location: Dehradun, UK, India



Max Super Specialty Hospital at Dehradun

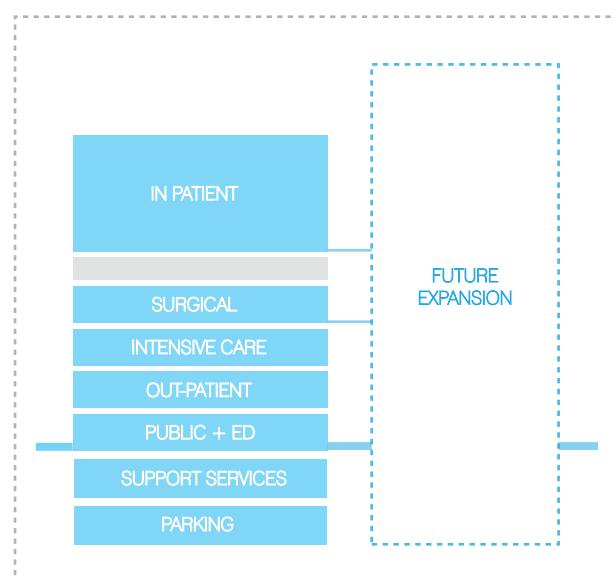
Max Super Specialty Hospital, located at Malsi, in Dehradun is an international class multi-specialty hospital. The institute, which is the brainchild of Dr. A. K. Singh and designed by creative designer architects, is a state-of-the-art hospital with exceptional diagnostic, therapeutic and intensive care facilities. The hospital uses a totally holistic approach to offer emotional and psychological support to the patients for early recuperation. The top class facilities at the hospital attract patients from across the world, including the countries of Iraq, Nigeria, Zimbabwe, Afghanistan, and the USA. The access to the hospital has been kept clear with a single point of entrance which further diverges into Emergency, visitor entrance and service entrance.



Planning Scheme: Compact - Courtyard concept



The generous 44,000 Sq. Feet floor plate at the ground floor houses day care with non-invasive cardiology, entire imaging with PHP (Preventive health check-up) and a huge cafeteria with spill out deck. A large oval shaped central atrium forms the pivotal point of the layout and dictates easy way finding for the visitors, patients and doctors. All the critical care functions such as the theatres, Intensive care units, cath labs etc. are placed on the first floor followed by the wards, single, double and economy on the second, third and fourth floor around the oval atrium providing all rooms with natural light and ventilation. It forms a huge sky deck on the second floor, which landscaped as a healing garden, encouraging patients and relative to come out in the green and rejuvenate, which helps promote healing.



Vertical stacking Scheme: Breitfuss model

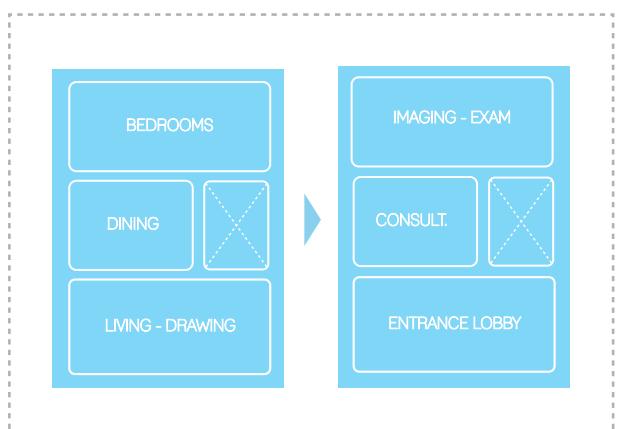
6.11 Diyos Mens Clinic

Project Type: Adaptive Reuse
Project Area: 12,000 Sqf
Beds: 19 Census beds
Location: New Delhi, India



Diyos Mens Health Center

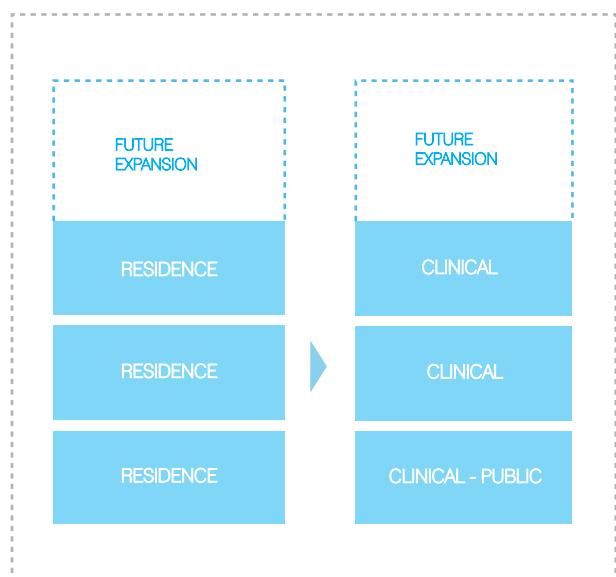
Once a derelict residential dwelling in the chic suburbs of South Delhi, This structure was conceived to be the most fitting by the architects for a one-of-a kind men fertility chain which was looking to make its debut with a flagship clinic. The building had clocked over 40 years, nearly touching the red mark of its lifetime, theoretically. The physical condition, however, was evaluated and found to be apt for a quick turnaround. The translation of its planning from a residential dwelling to that of a clinic foresaw major structural challenges due to the walls being load bearing and absence of any RCC member in the structure. This was augmented by strengthening and retrofitting at multiple locations thus adding another 2-3 decades to the life of the building.



Planning Scheme: Compact - Acentral Courtyard



The clinic is conceived to be a harbinger of hope, optimism and joy for the visitors as well as a harmonious street furniture for the onlooker. Conceptually, the existing residential exterior is transmuted into a simpler, sharper and a streamlined form. Its genesis draws inspiration from the conventional masculine characteristic which is more towards being rough and edgy. The exterior palette creates a harmony through play of mild grey dominated by orange-brown which is warm and robust. The edgy yet understated exterior attempts to break away from the monotony of the surrounding neighborhood. The warm and inviting interior is an apparent extension of the exterior conception. In order to make the clinic more welcoming and patient friendly, a small atrium with a sky-light has been carved out near the entrance lobby to exemplify the amount of daylight penetrating the interior.



Vertical stacking Scheme: -

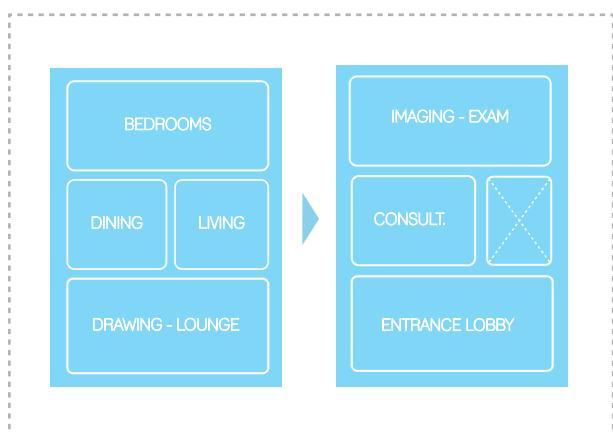
6.12 La Midas Clinic

Project Type: Adaptive Reuse
Project Area: 15,000 Sqf
Beds: 10 Census beds
Location: New Delhi, India



La Midas Center for Women

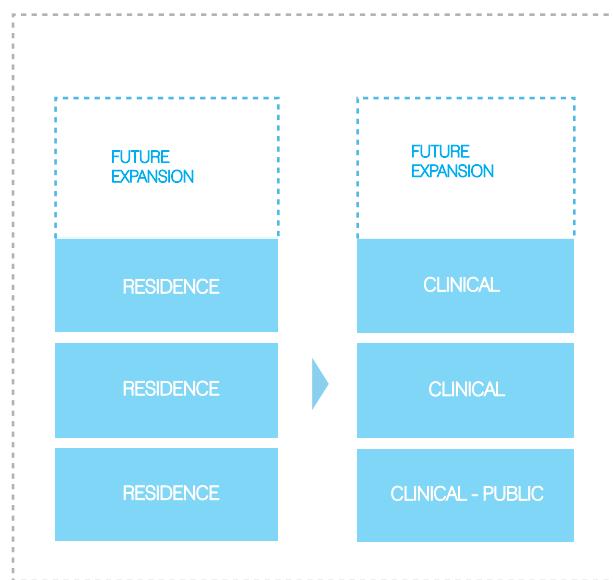
La Midas, an entity of Neelkanth Hospitals pvt. ltd. is a state-of-the-art, high-street clinical setting that attempts to blur boundaries between a health and retail. The clinical program is focussed on women health, beauty and wellness encompassing all areas of medical, cosmetic, mental and physical domains. The ground floor opens up with ambrosial entrance lobby adorned in light and warm pallete along with a distinctive - flowing ceiling that reminiscs of feminal grace and vibrance. The planning attempts to sketch a streamlined user flow begining at the entrance lobby which is then directed to the counselling and orientation rooms followed by the examination, consultation and retail spaces.



Planning Scheme: Compact - Courtyard concept



Moving up, the first floor houses eight post recovery patient beds along with two state of the art modular operating rooms. The second floor houses mental and physical health functions such as a healing spa clinic and a physiotherapy lounge. The exterior form, monochromatic in color - eminisces a female ballet danseur delineating the characteristics of finesse and poise. The clinic was a brownfield project set in a decade old residence - setting a meaningful precedent for adaptive re-use of building that provide respite to the over burdened natural resources along with reduced turn-around times and pay-back periods. The project is designed to achieve LEED ID+C GOLD certification along with WELL certification.



Vertical stacking Scheme: Breitfuss model

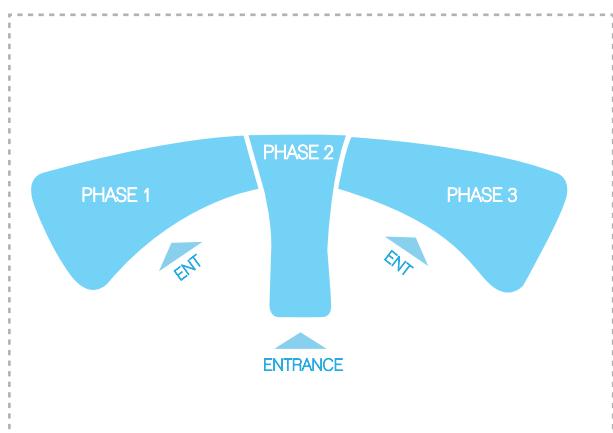
6.13 Confidential Client

Project Type: Greenfield Hospital
Project Area: 640,000 Sqf
Beds: 600 Census beds
Location: Dubai, U.A.E

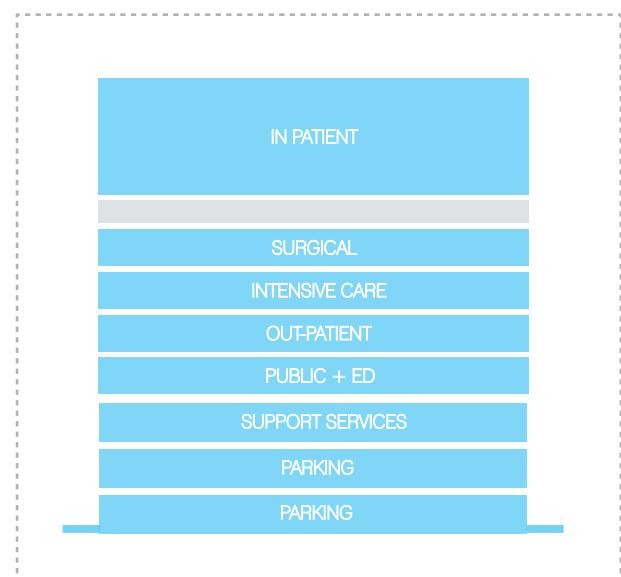
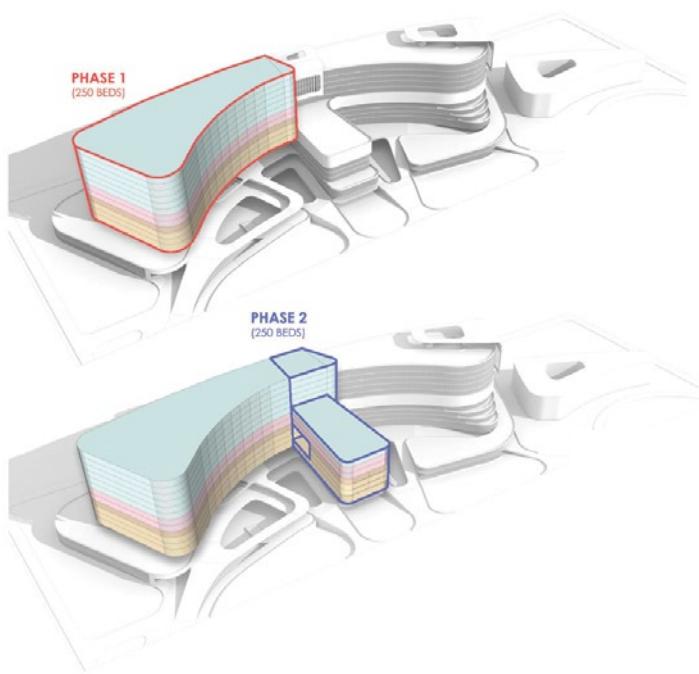


Hospital for confidential client in Dubai

This project stems from an invited international competition for a chain of high-end tertiary care hospitals in Dubai, U.A.E. The project brief was to develop concepts that allow the hospital to grow seamless while addressing discrete end-user circulation for each phase. The proposed design had a multi-level drop off zones for out-patients, in-patients, ED, services and staff. A flowing boomerang form that is deconstructed into three phases could augment a coherent short-term as well as long term expansions of the required programme. The form also tapers in subtly at each floor level creating vibrant green terraces that enhances patient experience and augment healing.



Planning Scheme: Compact - Courtyard concept



Vertical stacking Scheme: Breitfuss model

Business Leadership: Architecture and Planning



Mohanbir Singh, IIA, AITP
Managing Principal



Maninder Kaur, IIA
Managing Principal



Ravideep Singh, Assoc. AIA, IIA
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Business Leadership: Interior Studio and Project Management



Japneet Kaur, IIA
Managing Partner, Interior + PM

Our Healthcare studio



CDA