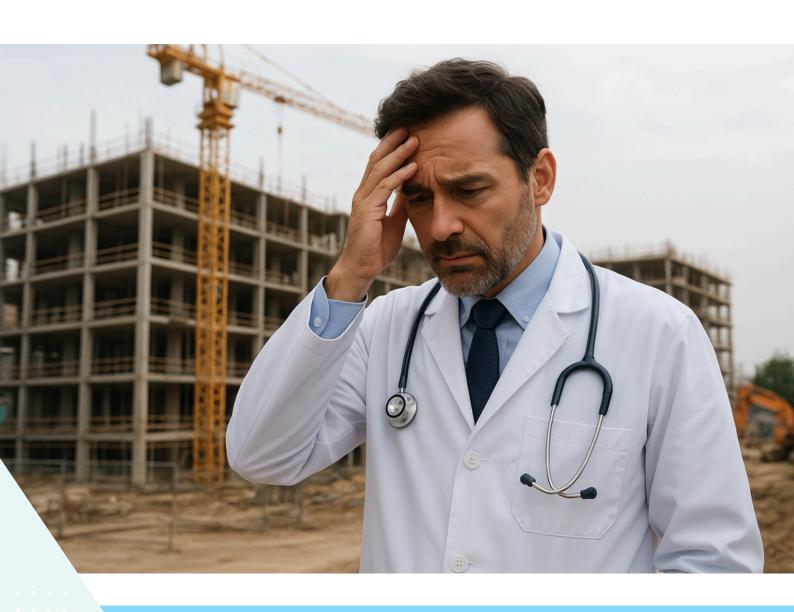


7 CRITICAL DESIGN PRINCIPLES EVERY SUCCESSFUL HOSPITAL MUST FOLLOW (BEFORE CONSTRUCTION STARTS)





AVOID COSTLY LAYOUT MISTAKES AND DESIGN A HOSPITAL THAT PERFORMS FOR DECADES.





WHY MOST HOSPITALS FAIL BY DESIGN (Not by Doctors)

Most hospitals are built by copying:

- * Old building plans
- * Hotel layouts
- * Residential logic

But hospitals are Living, complex machines.

Common failures:

- X Confusing circulation
- X Long walking distances for staff
- X Infection cross-contamination
- X Poor emergency access
- X No future expansion planning



Truth

A well-designed hospital increases efficiency by 30–40% and reduces operating stress for decades.





PERFECT ZONING = PERFECT FUNCTION

Every hospital must be divided into clear zones:

- 1. Public Zone
- 2. Patient Care Zone
- 3. Critical Zone (OT, ICU, Emergency)
- 4. Service & Utility Zone
- 5. Staff-only zone





Golden Rule:

No unnecessary overlap between clean & dirty zones.

If your architect didn't show you "zoning diagrams", you are in danger





FLOW DESIGN

(PEOPLE, PATIENTS, WASTE, DEAD BODIES)

flows must never mix

- Patients & visitors
- Doctors & staff
- X Bio-waste & soiled materials
- X Deceased bodies

Mistakes seen:

- * Same lift for visitors + dead bodies
- * Same corridor for waste + patients
- * OT near public waiting

Professional hospitals design separate:

- * Lifts
- * Corridors
- * Entries
- * Exit paths

This is where Architects save crores in retrofitting.



EMERGENCY DEPARTMENT IS THE HEART

Emergency must be: Directly connected to:

- * Imaging (CT, X-Ray)
- * OT
- * ICU
- * Blood bank
- * Separate ambulance entry & exit
- * Trauma room
- * Triage area
- * Resuscitation bay

Golden Design:

Patient moves in a straight, logical path without turning, confusion, or backtracking.



OT & ICU LOCATION = LIFE OR DEATH

OT & ICU should be:

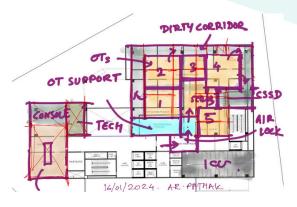
- * Centrally placed
- * Closest to emergency
- * Away from public waiting
- * With sterile circulation
- * With dedicated HVAC zones

Key advantage:

- ✓ Faster surgery time
- ✓ Less infection
- ✓ Better staff performance
- ✓ International standard compliance

Important:

Most Indian hospitals place OT wrong. Fixing it later costs crores.





HVAC, AIR & INFECTION CONTROL

Hospital architecture = Infection control architecture. Must include:

- * Positive pressure in OTs
- * Negative pressure in isolation rooms
- * **HEPA** filtration
- * Separate AHUs per zone





Your architect must coordinate with:

- * MEP engineer
- * Biomedical consultant
- * Infection control team
 Most "normal" architects **skip** this.
 This is why you need a Hospital **Specialist** Architect.



SMART FUTURE EXPANSION PLAN

Hospitals grow. Always.

Plan for:

- ✓ Vertical expansion
- ✓ Modular extensions
- Additional OT floors
- ✓ Future departments
- ✓ Parking expansion



Bad design = hospital stuck forever Good design = hospital turns into a medical campus

Ask yourself:

Will this building still work 20 years from now?



THE PROFESSIONAL ADVANTAGE SYSTEM

Professional hospital architects always include:

- Clear Signage Strategy
- Medical Equipment Planning
- Staff Comfort Areas
- Code Compliance (NABH, **Fire**, Local Laws)

These small details increase:

- * Staff efficiency
- * Patient trust
- * Brand value
- * Hospital reputation

Your building becomes a medical brand asset, not just construction.



SERVICES

Ready to design your hospital the right way from the first brick?





RESULTS

HAPPY DOCTORS WITH SUCCESSFUL PROJECT FOREVER













Projects

Further

Our Selected Projects

visit www.hosmart.in





150 Bed Hospital at Bhandup

Location : Bhandup,
 Mumbai

Client: Adani Realty

• Typology: 150 Bedded General Hospital

• **Area** : 1 L sq.ft.

Features: 6-Bed
 Emergency, 20 OPDs,
 Radiation Diagnostics,
 Labs, General Wards, I.C.U.,
 NICU, OT Complex, Special
 Rooms, Staff Facility,
 Laundry in Basements,
 Conference room,
 Canteen.



With Team Adani Realty, Bandra, Mumbai







PALEP'S POLYCLINIC, PRABHADEVI

• Location: Prabhadevi,

Mumbai

• Client: Dr. Palep

• Typology: Poly-Clinic

Area: 1000sq.ftCost: On request

Features: Spacious designer
 OPDs, relaxing Waiting Lobby

 Highlight: Flexible planning for Multiple doctor's functioning

• Scope - Design and Build

Timeline - 3 Months



Status: Completed

Varad Multispecialty Hospital, Boisar











DR.ANITA MEMORIAL CARDIOLOGY INSTITUTE

• Location : Ashte, Panvel, Navi Mumbai

• Client: Dr. Tarlekar

 Typology: 50 Bed, Cardiac and Cancer care Hospital

• Area: 55000 Sqft

• Cost: Not Disclosed

 Features: 4-Bed Emergency, 8 OPDs, Diagnostics, Labs, I.C.U., OT Complex, Special Rooms, Radio therapy

- LINAC, Brachy, CT, MRI, X Ray, USG all inclusive
- Research and Training Facility
- Highlight: Steel Construction with GRC Cladding and DGU



Location Plan



"ॐ गुरुवे नमः"

OUR MENTOR



Dr. Ravindra KaranjikarMentor, Hosmart Healthcare Pvt. Ltd.

OUR PHILOSPHY

MISSION

To pursue excellence in Public and Private healthcare sectors, and to carry out research and development to enhance human well-being.

VISION

To deliver intelligent and holistic knowledge along with necessary technical support to healthcare industry.

CORE VALUES

Compassion, Quality, Innovation and Accountability

WE, HOSMART



Dr. Madhukar RathodCEO, Healthcare Consultant
Hosmart Healthcare Pvt. Ltd.

With 25+ years of experience in the field of healthcare management, Hosmart is his brainchild to specifically develop a high quality technical consultation and development service for better hospitals and allied healthcare facilities.

With broader and compassionate vision, he has been guiding many fellow doctors and healthcare setups to work with progressive and positive impact.





Team

OUR TEAM OF ARCHITECTS



Ar. Neeta MahajaniAssociate Architect
Pune, India



Ar. Shirin Hassan Associate Architect Doha, Qatar



Ar. Pankti Sanganee (LEED Green Associate (USGBC) Site Planner and Landscape Designer



Ar. Rohan SharmaAssociate Architect
Goregaon, India



Ar. Anil Avad Associate Architect Navi Mumbai, India



Ketki Nalawade
Intern Architect
Thane, India



Author

LEAD ARCHITECT

Ar. Yadneshwar R Pathak hold 20 Years of Experience, passion and qualifications for designing technically correct healthcare facility





DHPD - Post Graduate in Hospital Planning and Design, Symbiosis International

MUMAD - Master in Urban Management and Architectural Design Domus Academy **Milan**, Italy

B. ARCH (Honours) - Bachelor of Architecture, Sir J J COA, Mumbai

PGIA - Post Graduate in India Aesthetics - Jnan Pravah.



Thank You!

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Any query related to this book and it's content, please feel free to write to us at director@hosmart.in or Connect to us at +91 9967587615

