

Building Resilient Healthcare Ecosystems Through Smart Design



Vision & Leadership:

What is your vision for the future of healthcare, and how is your organisation contributing to building a stronger healthcare ecosystem?

At HOSMAC, we envision a future in which quality healthcare is a right within everyone's reach, not a privilege of the metros. That future begins with the facility itself. A thoughtfully planned hospital streamlines patient flow, shortens response times, empowers clinicians and elevates the standard of care delivered every day.

We translate this belief into practice by planning and designing hospitals and medical colleges with efficiency at their core. We are trying to integrate AI-driven tools into our design process, enabling us to analyse optimise layouts and make sharper decisions from the earliest stages. Equally, we are committed to expanding our footprint across Tier 2 and



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**NATION
BUILDER
HEALTHCARE²⁰²⁶**

HOSMAC
PERFECTING HEALTHCARE



Dr. Vivek Desai

Founder & Managing Director,
HOSMAC

Tier 3 cities, where the demand for robust healthcare infrastructure is growing fastest.

INNOVATION & TECHNOLOGY:

What key innovations, technologies or solutions are you developing to address the evolving needs of healthcare and MedTech?

The young architects at HOSMAC's Architecture Design Studio have been working and developing two new tools for keeping up with the evolution of healthcare, namely Urban Health Data Platform (UHDP) and Hospital Energy Analysis Tool (HEAT). HOSMAC has developed the Urban Health Data Platform (UHDP), a research-driven digital web tool that provides actionable insights into India's healthcare infrastructure. Built on years of in-house research and growing computational AEC design tech expertise, the platform enables users to locate healthcare facilities and filter them by ownership type and geographic location.

Additionally, the Hospital Energy Analysis Tools (HEAT) show the scope of how energy is being used in hospital operations. HEAT brings together two complementary tools for energy-conscious hospital design: Space Program Designer models active energy needs from the hospital program, and Building Mass-Volume Explorer models passive performance from the building's form and orientation.

IMPACT & PATIENT CARE:

How are your products, services or technologies helping improve patient care, accessibility, efficiency or clinical outcomes?

A patient-centric approach is the foundation of our plans. We design clear, smart circulation so patients and families can find their way with ease and emergencies get faster access to care. We separate patient, visitor and service flows to strengthen infection control and maintain patient privacy. We plan facilities incorporating biophilia in our design bringing in natural lighting, calm environments and intuitive wayfinding, because healing depends as much on comfort and dignity as on clinical excellence. Poor planning can evoke a sense of captivity and alienation in patients. However, the gradual adoption of natural lighting and biophilia is eradicating this unusual feeling. Hospitals with healing gardens or canteens/caferterias in their vicinity or premises allow staff and visitors to take a break from their daily hospital routines. Vibrant colours, natural stimuli and well-lit interiors—including corridors, cafeterias and pharmacies—can alleviate patients' discomfort with their surroundings.

GROWTH & INDUSTRY TRANSFORMATION:

What major changes do you foresee in the healthcare/ MedTech industry, and how is your organisation preparing for the next phase of growth?

We see healthcare entering a decade of decentralisation. Quality care is moving beyond the metros into Tier 2 and Tier 3 cities, where demand is rising fastest and infrastructure is still catching up. At the same time, technology is reshaping how facilities are planned and run. AI, data analytics and connected systems are becoming integral to everything from patient

flow to energy management.

FUTURE VISION:

What are your organisation's key priorities and aspirations for the next 3–5 years in shaping the future of healthcare?

We aim to achieve the following things in the next 3-5 years

- **AI-integrated designs.** We are embracing AI across our design process, from space programming and layout optimisation to patient and staff flow analysis. It lets us explore more options, refine ideas early and create hospitals and medical colleges that work beautifully for patients and clinicians alike.
- **Faster design, faster impact.** Every hour saved in design brings care closer to the communities waiting for it. With AI-enabled tools, data-driven programming and streamlined workflows, we are speeding up the journey from concept to construction-ready design while keeping clinical quality at the heart of every decision.
- **Sustainability from the first sketch.** We bring sustainability into the very first stage of conceptualisation. With our Hospital Energy Analysis Tool (HEAT), we shape orientation, daylight and energy performance as the design takes form, creating hospitals that are efficient to run, resilient and kind to the environment for generations.