



CARESPACE BY IDC

Advanced Turnkey Healthcare Architecture & Infrastructure Solutions

FRP & EPS Elevation

NFPA Fire Safety

Medical Coating & Interiors

ICU & Ward Beds

The Ultimate Turnkey Assurance: CareSpace by IDC eliminates multi-vendor management risks. We provide completely integrated engineering, high-performance exterior elevation, comprehensive fire safety approvals, and antibacterial clinical environments under one unified management system.

Executive Overview

Modern healthcare infrastructure requires a perfect balance between clinical compliance and structural longevity. CareSpace by IDC delivers highly specialized, single-window turnkey operations designed explicitly to meet NABH guidelines, fire department standards, and contemporary architectural aesthetics.

By controlling every step—from structural engineering, custom material manufacturing, specialized medical interior coating, to final fire clearance testing—we ensure your hospital project achieves unprecedented quality and timely handover.

High-Performance Exterior Elevation (FRP & EPS)

A hospital's exterior must look premium, modern, and stand strong against heavy environmental weathering. We replace old, high-maintenance materials with advanced engineering panels:

Fiber-Reinforced Polymer (FRP) Architectural Elements

FRP is the ultimate material for high-strength, low-weight structural designs and premium custom architectural shapes on hospital facades.

- **Extreme Weather Resistance:** Completely immune to heavy rains, extreme UV rays, humidity, and atmospheric corrosion. It never cracks or warps. [Page 2](#)
 - **Zero Structural Load:** High strength-to-weight ratio means it delivers bold, massive aesthetic designs without putting any heavy structural load on the core building.
 - **Maintenance-Free Longevity:** Comes with specialized gel-coat finishes that require no periodic repainting and are completely dust-repellent.
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Expanded Polystyrene (EPS) Architectural Cornices & Moldings

EPS shapes, reinforced with specialized polymer matrix coatings, are deployed to create exceptional thermal insulation and stunning visual definitions.

- **Thermal Insulation (Energy Saving):** EPS acts as an advanced thermal barrier on the facade, reducing external heat transfer and significantly cutting down hospital HVAC energy consumption costs.
- **Intricate Architectural Profiles:** Allows the seamless creation of premium geometric features, deep window trims, corporate pillar moldings, and complex exterior accents.
- **Impact and Fire Retardant Matrix:** Coated with heavy-duty polymer cement grout and alkali-resistant fiberglass mesh for highly durable impact resistance and fire-retardant performance.

Page 3: Integrated Fire Safety & Suppression Infrastructure

Patient safety is our absolute non-negotiable benchmark. CareSpace completely designs and installs an end-to-end fire safety ecosystem built strictly to National Building Code (NBC) guidelines to ensure immediate local authority clearance.

1. Early Detection & Intelligent Alert Networks

We deploy high-sensitivity addressable smoke multi-sensors and thermal rise detectors integrated into a centralized control panel that instantly localizes and identifies any potential hazards.

2. Automatic Sprinkler & Fire Suppression Setup

Fully engineered, wet-pipe automatic sprinkler networks are installed across all ICU corridors, ward bays, and general waiting lounges. Dedicated gas-based fire suppression systems (FM-200 / Novec 1230) are used in critical server zones and diagnostic labs to safeguard expensive equipment without water damage.

3. Passive Containment & Structural Measures

We install certified fire-rated heavy metal doors with a 120-minute minimum integrity rating for all staircases and critical zones, ensuring emergency containment. All structural escape routes are engineered with photoluminescent path indicators, automatic panic bars, and emergency backup lighting networks.

4. Heavy-Duty Hydrant & Hose Reel Framework

Complete deployment of high-pressure vertical wet-riser mains, standard external fire hydrants, swinging hose reel boxes at every 30 meters, and dedicated high-capacity fire pump stations (Main, Standby Diesel, and Jockey pumps).

Page 4: Specialized Medical Interiors, Reception & Coatings

A hospital's internal environment directly impacts patient recovery and infection management. Our interior fit-outs combine premium hospitality aesthetics with severe clinical compliance.

Grand Reception Lounges & Waiting Areas

Designed to reduce patient anxiety and deliver an ultra-premium corporate identity.

- **Bespoke Counters:** High-end, seamless solid surfaces (Corian) for the main reception desk that are totally scratch-proof and have zero crevices for dust accumulation. [Page 5](#)
- **Optimized Traffic Zoning:** Intelligent layout designs that separate incoming emergency cases, general OPD crowds, and pharmacy queues to avoid chaos.

Advanced Anti-Bacterial & Specialized Coatings

We use high-grade chemical and medical coatings across all interior surfaces to maintain flawless hygiene.

- **Silver-Ion Anti-Bacterial Wall Paints:** Specialized wall coatings that actively eliminate 99.9% of microbes and withstand continuous heavy-duty scrubbing with harsh hospital disinfectants.
- **Medical-Grade Vinyl Flooring:** Seamless, anti-static, heavily layered PVC flooring with fully covered wall borders to eliminate sharp corners where bacteria can breed.
- **Anti-Radiation Lead-Lined Plastering:** Specialized high-density wall preparations and lead linings executed perfectly in X-Ray, CT-Scan, and Cath-Lab enclosures.

Page 5: ICU/Ward Beds, Premium Furniture & Project Flow

We supply high-durability medical engineering equipment alongside structured project milestones to ensure timely operational readiness.

Advanced Hospital Beds

ICU Electric Beds: Motorized multi-functional beds with trendelenburg positioning, integrated weighing scales, and central braking.

Ward Semi-Fowler Beds: Smooth mechanical crank adjustments with collapsible ABS side-rails and anti-microbial headboards.

Ergonomic Furniture

Clinical Desks: Premium, ergonomic setups designed for doctors to enhance consultation comfort.

Lounge Seating: Heavy-duty metal-frame anti-microbial tandem seating for patient waiting lounges built for heavy daily footfall.

Our 5-Step Turnkey Pipeline:

- 1.Structural Audit:** Mapping bed capacities, clinical workflows, and local regulatory criteria.
- 2.3D EngineeringBlueprint:** Finalizing premium FRP/EPS elevation models, zoning blueprints, and MEP layouts.
- 3.QA Manufacturing:** Direct sourcing of standard fire safety setups and medical furniture under strict quality control.
- 4.Certified Field Execution:** Deployment of specialized interior coatings, fire pipelines, and facade installations.