STRATUM

SERVICE CONSULTANTS PVT LTD



ENGINEERING THAT SHAPES TOMORROW.

STRUCTURES • SYSTEMS • SOLUTIONS

Built with precision. Designed for performance.

CIVIL | STRUCTURES | PHE | FPS | ELECTRICAL | HVAC

ABOUT US

Stratum Service Consultants Pvt Ltd is a Bengaluru-based Structural and MEP engineering consultancy providing design and engineering services for residential, commercial, institutional, hospitality, healthcare, data centre and industrial projects.
Our multidisciplinary team works closely with developers, architects, Project Management Consultants (PMCs) and project teams from the initial design stage through detailed engineering, coordination and construction support.

WHO WE ARE

Stratum was established by a team of experienced engineering professionals with the objective of providing coordinated Structural and MEP consultancy services under one platform. Our team brings experience from high-rise residential developments, commercial and IT campuses, hotels, hospitals, data centres, industrial facilities, institutional buildings and projects involving complex architectural requirements.

OUR EXPERIENCE

150–200M+
HIGH-RISE
HEIGHTS HANDLED

120–150 MILLION SQ. FT.
RESIDENTIAL & IT CAMPUS
EXPERIENCE

16M
MAXIMUM CANTILEVER
STRUCTURE

20 MILLION SQ. FT.
DATA CENTRE & HOSPITAL
EXPERIENCE

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OUR VISION

To build Stratum into a dependable Structural and MEP engineering consultancy known for the quality of its engineering, professional approach and ability to support complex building projects across India.

OUR MISSION

To provide practical, coordinated and technically sound engineering solutions while maintaining a clear focus on quality, project timelines, cost considerations and client requirements.

OUR VALUES

- TECHNICAL INTEGRITY
- QUALITY
- COLLABORATION
- ACCOUNTABILITY
- SUSTAINABLE ENGINEERING

OUR LEADERSHIP



Prakash. D Design Management Expert
Managing Director

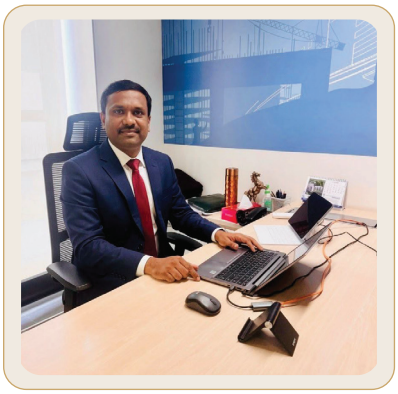
B.E Civil Engineer With over 23 years of experience in civil engineering and SMEP consultancy, Prakash has been involved in high-rise developments, unique architectural buildings, residential projects, luxury villas, hotels, hospitals, malls, warehouses, data centres and industrial facilities. His experience includes design management, multidisciplinary coordination and the delivery of complex and fast-track projects.

Mechanical Engineer | PHE & FPS Specialist

Madhu N
Joint Managing Director



Madhu **B.Tech Mechanical Engineer** brings over 21 years of specialized experience in plumbing, Public Health Engineering and related building services. His experience covers residential, commercial, institutional, industrial and high-rise developments, with a strong focus on practical, efficient and maintainable engineering solutions.



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ArunKumar SR Structural Engineer
Director - Structures

ArunKumar, **M.Tech Structural Engineer** brings more than 15 years of experience in RCC and steel structural design. His experience includes high-rise buildings, industrial structures, data centres, malls, hotels, hospitals, commercial buildings and institutional developments, with expertise in structural modelling, detailed design, documentation and construction coordination.

WHAT CLIENTS CAN EXPECT FROM US

- TECHNICALLY SOUND ENGINEERING
- CLEAR AND COORDINATED DOCUMENTATION
- PRACTICAL AND COST-CONSCIOUS SOLUTIONS
- EFFECTIVE MULTIDISCIPLINARY COORDINATION
- TIMELY ENGINEERING DELIVERABLES
- SUSTAINABLE DESIGN CONSIDERATIONS
- PROFESSIONAL AND RESPONSIVE COMMUNICATION

OUR APPROACH

UNDERSTAND
We study the architectural drawings, site conditions, client requirements and project objectives before beginning the engineering process.

EXPLORE
Different engineering options are evaluated from technical and commercial perspectives to determine the most suitable approach for the project.

DESIGN
Our teams develop engineering concepts, calculations and preliminary designs before progressing into detailed engineering.

COORDINATE
Structural and MEP disciplines are coordinated internally, followed by coordination with architects, PMCs and other specialist consultants involved in the project.

DOCUMENT
We develop the required design reports, coordinated drawings, specifications, BOQs, tender documentation and GFC drawings based on the project scope.

SUPPORT EXECUTION
During construction, our team can provide technical reviews, RFI responses, shop-drawing reviews, inspections and engineering coordination as required.

COMMISSION
Where included within the project scope, our involvement continues through final execution and commissioning support.

WHY STRATUM

- EXPERIENCED LEADERSHIP
- MULTIDISCIPLINARY TEAM
- EXPERIENCE ACROSS COMPLEX PROJECTS
- DESIGN COORDINATION
- PRACTICAL ENGINEERING
- TIMELY DELIVERABLES

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MEP ENGINEERING SERVICES

ELECTRICAL ENGINEERING

PUBLIC HEALTH ENGINEERING

FIRE PROTECTION SYSTEM

HVAC & MECHANICAL ENGINEERING









STRUCTURAL ENGINEERING



ENGINEERING THE STRUCTURE BEHIND THE ARCHITECTURE

Every building begins with an idea. Turning that idea into a structure that is safe, efficient and practical to build requires the right engineering decisions from the very beginning.
At Stratum, we provide structural engineering consultancy across residential, commercial, high-rise, institutional, hospitality, healthcare, data centre and industrial developments. Our involvement extends from early structural studies and system selection through analysis, detailed design, documentation and construction-stage support.

WHAT WE OFFER

CONCEPTUAL & SCHEMATIC DESIGN

Before detailed calculations begin, the fundamental structural decisions need to be established.
At this stage, our engineers study the architectural concept and available geotechnical information to understand how the proposed building can be structured efficiently. Different structural systems are evaluated against the project's architectural, technical and commercial requirements.

DESIGN DEVELOPMENT

Once the structural direction is established, the design moves into analysis and development.
Three-dimensional analytical models are developed to study the behaviour of the structure under applicable dead, live, wind and seismic loads. The results guide the sizing and development of columns, beams, load-bearing walls, foundations and other structural elements.

CONSTRUCTION DOCUMENTATION

Once the engineering is developed and coordinated, our team translates the design into detailed structural documentation for the project and construction teams.
This includes structural plans, framing layouts, sections, connection details, foundation information, structural calculations and other construction drawings required within the project scope.

CONSTRUCTION ADMINISTRATION

Site conditions may differ from assumptions. Contractors may require clarification. Reinforcement or steel detailing may need review. Material test results may need to be checked against design requirements.
Our structural engineering support can therefore continue into the construction stage.

PUBLIC HEALTH ENGINEERING



ENGINEERING WATER SYSTEMS FOR BETTER BUILDING PERFORMANCE

Water is one of the most essential resources within any development. How it is supplied, distributed, used, treated and discharged has a direct impact on building operations, hygiene, efficiency and long-term resource management.
Stratum provides Public Health Engineering consultancy for residential, commercial, hospitality, healthcare, institutional, industrial and large-scale developments. Our PHE solutions cover water supply and distribution, plumbing and sanitation, sewage management, stormwater drainage, rainwater harvesting, water reuse and other supporting systems.

WHAT WE OFFER

WATER SUPPLY & DISTRIBUTION

- Water Supply Systems
- Water Treatment
- Water Distribution Networks
- Water Storage & Distribution Planning
- Domestic Water Systems

PLUMBING & SANITARY SYSTEMS

- Plumbing Systems
- Sanitary Installations
- Internal Water Distribution
- Wastewater Collection
- Sanitary Drainage Systems

SEWAGE MANAGEMENT

- Sewage Collection Systems
- Sewage Treatment
- Sewage Disposal
- Treated Water Reuse
- Wastewater Management

STORM WATER MANAGEMENT

- Stormwater Drainage
- Rainwater Collection
- Rainwater Harvesting
- Groundwater Recharge Systems

SWIMMING POOL SYSTEMS

- Swimming Pool Filtration
- Swimming Pool Circulation Systems
- Associated Water Management Systems

LANDSCAPE IRRIGATION

- Landscape Irrigation Systems
- Irrigation Water Distribution
- Reuse of Treated Water for Landscaping, where applicable

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ELECTRICAL ENGINEERING



POWERING BUILDINGS WITH RELIABILITY, SAFETY AND EFFICIENCY

Every building depends on an electrical infrastructure that can support its operations safely and reliably. From incoming power and distribution to backup systems, lighting, communication and monitoring, each element needs to be planned as part of the wider building design.

Stratum provides Electrical Engineering consultancy for residential, commercial, hospitality, healthcare, data centre, institutional and industrial developments. Our approach combines technical design with coordination, operational requirements and long-term system performance.

WHAT WE OFFER

POWER DISTRIBUTION

- High-Voltage Electrical Distribution
- HT Power Transmission & Distribution
- Low-Tension Power Distribution
- Building-Level Power Distribution Networks
- Outdoor Low-Voltage Distribution Networks

BACKUP & CRITICAL POWER

- Onsite Power Generation
- Backup Power Generation
- Uninterruptible Power Supply (UPS) Solutions
- Emergency & Backup Power Systems
- Load Management & Load Shedding

POWER MANAGEMENT

- Power Management & Control
- Demand Optimization
- Comprehensive Energy Monitoring Systems
- Electrical Load Management

ELECTRICAL SAFETY & PROTECTION

- Lightning Protection
- Earthing & Grounding Infrastructure
- Electrical Protection Planning

LIGHTING SYSTEMS

- Building Lighting Systems
- Emergency Lighting
- Backup Lighting

COMMUNICATION INFRASTRUCTURE

- Telecommunication Systems
- Structured Cabling Networks
- Voice Communication Networks
- Wireless Data Networks

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FIRE PROTECTION & LIFE SAFETY



PROTECTING PEOPLE, PROPERTY AND BUILDING OPERATIONS

Fire protection is more than a statutory requirement. It is an essential part of how a building protects its occupants, assets and operations during an emergency.
Stratum provides Fire Protection & Life Safety engineering consultancy for residential, commercial, hospitality, healthcare, data centre, institutional and industrial developments. Our capabilities cover fire suppression, detection, alarm, evacuation and emergency communication systems, coordinated with the architecture, structure and other building services abiding all latest NBC & local By-laws.

WHAT WE OFFER

FIRE SUPPRESSION SYSTEMS

- Hydrant Systems
- Sprinkler Systems
- Water Mist Fire Extinguishing Systems
- Wet Riser Systems
- Dry Riser Systems
- Clean Agent / Gas-Based Fire Suppression Systems

FIRE DETECTION & ALARM

- Fire Detection Systems
- Fire Alarm Systems
- Alarm & Notification Systems

EMERGENCY COMMUNICATION

- Voice Evacuation Systems
- Public Address Systems
- Emergency Announcement Systems

SPECIALISED FIRE PROTECTION

- Clean Agent Suppression
- Gas-Based Suppression
- Fire Protection for Critical Areas
- Fire Protection for Data Centres and Sensitive Environments

SECURITY & ACCESS SYSTEMS

- CCTV Surveillance Systems
- Access Control Systems

CODES & STANDARDS

- NFPA Standards
- FM Global Requirements
- Applicable International Standards

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HVAC & MECHANICAL ENGINEERING



CREATING COMFORTABLE, EFFICIENT AND HIGH-PERFORMING ENVIRONMENTS

Effective HVAC design goes beyond maintaining temperature. It influences occupant comfort, indoor air quality, energy consumption, operational efficiency and the overall performance of a building.
Stratum provides HVAC & Mechanical Engineering consultancy for residential, commercial, hospitality, healthcare, data centre, institutional and industrial developments. From system selection and thermal-load assessment to detailed design, controls and multidisciplinary coordination, our approach is shaped around the operational needs of each project.

WHAT WE OFFER

AIR-CONDITIONING SYSTEMS

- Central Air-Conditioning Systems
- Chilled-Water Cooling Systems
- DX Cooling Systems
- Central Air-Conditioning Plants
- Cooling Towers
- Air Handling Units (AHUs)
- Fan Coil Units (FCUs)
- Variable Air Volume (VAV) Systems

VENTILATION & AIR DISTRIBUTION

- Ventilation Systems
- Exhaust Systems
- Ducting Systems
- Air Distribution Networks
- Grilles & Diffusers
- Smoke Extraction Systems

PRECISION COOLING

- Precision Cooling Systems
- Data Centre Cooling
- Cooling for Critical Areas
- Specialized Cooling Requirements

HVAC CONTROLS & AUTOMATION

- HVAC Control Systems
- Building Management System (BMS)
- Integration
- HVAC Automation
- System Monitoring & Control

THERMAL ANALYSIS & SYSTEM SIZING

- Thermal Load Calculations
- HVAC System Sizing
- Equipment Capacity Assessment
- System Planning & Selection

ENERGY-EFFICIENT HVAC DESIGN

- Energy-Efficient System Design
- HVAC System Optimization
- Energy Consumption
- Considerations
- Operational Performance Planning

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INTEGRATED ENGINEERING PARTNERS











Chrysalis high 14 YEARS

SEKHAR®

DeDerive

23DDS

SDeG

DL+A

MAIA ESTATES

CONTACT

PHONE NUMBER
+ 91 9611100893

EMAIL
info@stratumconsultants.com

ADDRESS
988A, Vijayabank Layout
Bilekahalli, Begur
Bannerghatta Road
Bangalore 560076



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SERVICE CONSULTANTS PVT LTD