



DRIVEN BY PURPOSE,
DEFINED BY PRECISION,
BUILT ON TRUST.



WE STRANDS

Strands delivers advanced post-tensioning and structural solutions built on integrity, innovation, and trust—ensuring lasting growth and sustainable progress for clients worldwide.

CORE PURPOSE

Deliver sustainable, dependable, and value-engineered structural solutions globally.

VISION

To be the world's leading value-engineering firm driving innovation in structural construction.



Three horizontal yellow bars of varying lengths, stacked vertically, located above the "WHAT DRIVES US" section.

WHAT DRIVES US

- LEAD THE POST-TENSIONED CONCRETE INDUSTRY WITH TRUST AND PERFECTION.
- CONTINUOUSLY ENHANCE QUALITY AND CLIENT RELATIONSHIPS.
- FOSTER AN EMPOWERING AND MOTIVATED WORKPLACE.
- MAINTAIN TRANSPARENCY AND ETHICAL BUSINESS PRACTICES.

Three horizontal yellow bars of varying lengths, stacked vertically, located below the "OUR CAPABILITIES" section.

OUR CAPABILITIES

Strands' strength lies in its expert team of engineers, managers, and technicians serving through specialist divisions in:

- DESIGN & VALUE ENGINEERING
- POST-TENSIONING CONSTRUCTION SERVICES

Using cutting-edge techniques and advanced modeling, Strands delivers accurate and efficient design solutions. Value engineering studies ensure optimal performance and cost-effectiveness. A skilled execution team and precision equipment ensure smooth, timely project delivery with uncompromised quality.



WHAT IS POST-TENSIONING?

Post-tensioning strengthens concrete by applying compressive stress using high-tensile steel tendons, counteracting tensile forces from load and weight. Strands specializes in bonded post-tensioning, which provides superior corrosion protection and durability—ideal for slabs, bridges, and complex structures.

Key Benefits

- UP TO 25% LESS CONCRETE AND 75% LESS REINFORCEMENT
- FASTER CONSTRUCTION AND THINNER SLABS
- GREATER SPANS, FEWER COLUMNS, AND REDUCED DEFLECTION
- UP TO 40% WEIGHT SAVING IN HIGH-RISE STRUCTURES
- ENHANCED CRACK CONTROL AND LONG-TERM DURABILITY

DESIGN & EXECUTION

Early involvement ensures efficient design and cost savings. Design Advantages: Improved headroom, flexible layouts, accurate cost estimation, and optimal spacing (8-10m between supports).

Design Process:

- STRUCTURAL MODELING
- LOAD ANALYSIS
- REINFORCEMENT DESIGN
- DETAILING AND LAYOUT

Execution Process:

- DUCTING
- TENDON PLACEMENT
- CONCRETE CASTING
- STRESSING
- GROUTING

Each step is handled by Strands' certified PT specialists to ensure safety, accuracy, and durability.



WHY CHOOSE POST-TENSIONING?

- FLEXIBLE DESIGN: CREATE LARGER, COLUMN-FREE SPACES.
- FASTER CONSTRUCTION: REDUCE MATERIALS AND CYCLE TIMES.
- LOW MAINTENANCE: FEWER JOINTS AND LONGER SERVICE LIFE.
- SUSTAINABILITY: 20-40% LESS STEEL AND CONCRETE, LOWERING CARBON FOOTPRINT AND ENERGY USAGE.



WHY STRANDS?

Strands offers the perfect balance of efficiency, quality, and innovation:

- COST-EFFICIENT, HIGH-PERFORMANCE DESIGNS
- ON-TIME DELIVERY WITH ZERO-DEFECT EXECUTION
- SUPERIOR SAFETY AND WORKMANSHIP
- ECO-FRIENDLY, SUSTAINABLE STRUCTURAL SYSTEMS

By combining integrity, loyalty, and innovation, Strands Engineering delivers lasting value and structural excellence across the globe.



DELIVERING

BOLD ARCHITECTURE.
ACHIEVING THE IMPOSSIBLE.

140+

PROJECTS COMPLETED

8

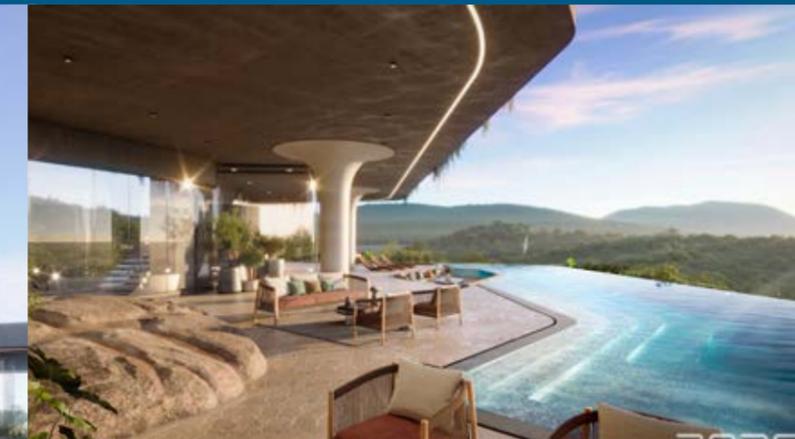
YEARS OF
INDUSTRY EXCELLENCE

6

OVER
MILLION SQ. FT. OF
BUILT-UP AREA

PRESENCE ACROSS KERALA, TAMIL NADU, BENGALURU, AND HYDERABAD

FEATURED PROJECT



HILLTOP RESIDENCE Thrissur

The 52,000 sq. ft. Hilltop Residence in Thrissur is an architectural masterpiece that showcases bold design and advanced engineering. Featuring an exceptional 14 m cantilever on the ground floor and a 17 m cantilever on the first floor, the structure employs post-tensioned (PT) technology to achieve unmatched strength, stability, and elegance. The PT system allows for slender profiles, reduced deflection, and superior durability—creating a visually striking residence that seamlessly blends innovation, luxury, and structural excellence atop its scenic hilltop setting.

FEATURED PROJECT



TRAVANCORE MEDI CITY Kollam

The 200,000 sq. ft. Travancore Medi City in Kollam is a landmark healthcare project that integrates advanced engineering with modern architecture. Designed using a combination of PT slabs, PT beams, flat slabs with PT drops, and RC slabs with PT beams, the structure achieves 11 m × 11 m spans, providing large column-free spaces essential for hospital functionality. The post-tensioning (PT) system ensures superior structural performance, reduced slab thickness, and long-term durability while minimizing deflection and cracking. The PT design also enhances construction efficiency, flexibility for future modifications, and cost-effectiveness—creating a sustainable, safe, and technologically advanced medical facility built for strength and precision.

FEATURED PROJECT



CONVENTION CENTRE FOR SURYA HOTELS Kollam

The 50,000 sq. ft. Convention Centre for Surya Hotels in Kollam stands as a landmark of architectural excellence and engineering innovation. Designed and executed using post-tensioned (PT) technology, it features an impressive 27 m column-free central span that creates expansive, uninterrupted event spaces. The PT design allows for slender structural profiles, reduced material usage, and enhanced durability—all while maintaining superior aesthetic appeal. This advanced system ensures structural efficiency, flexibility for diverse functions, and long-term sustainability, reflecting Surya Hotels' vision of blending elegance, innovation, and functionality in every detail.





FMRA162, Father Manuel Rd, Kathrikadavu,
Kaloor, Ernakulam, Kochi, Kerala 682017

M 094958 60629 | www.strandspt.in

