

Prestressing Engineering Services for Southeast Asia

Design Review | Troubleshooting | External Prestressing Strengthening | Specialist Construction Support

Positioning	Prestressing Engineering & Troubleshooting Specialist
Target Markets	Malaysia, Vietnam, the Philippines and Indonesia
Target Clients	Structural consultants, PT contractors, structural repair companies, design-build contractors
Chinese Support Company	Fujian Jianke Engineering Technology Co., Ltd.
Engineering Background	Backed by the Fujian building science and engineering technology system

We help local engineering teams reduce risk in prestressing design, construction and strengthening works. Our role is not low-cost drafting; our value is specialist judgement, method review, troubleshooting and practical site support, supported by wider engineering capabilities in testing, monitoring, structural strengthening, foundation works and construction coordination.

Prepared for overseas business development - 2026-07-16

1. Who We Are

Fujian Jianke Engineering Technology Co., Ltd. provides engineering technology support for prestressing projects. The company belongs to the Fujian building science and engineering technology system. Public corporate information shows related capabilities in structural strengthening, foundation works, steel structures, building construction, geological hazard treatment, construction safety and management systems. For Southeast Asia, we focus on specialist services that can be delivered remotely, through local partners, or with site technical support when required.

Engineering Background

Structural Strengthening	Supports existing building retrofit, bridge strengthening, parking structures, industrial structures and external prestressing works.
Testing & Monitoring	Supports evidence-based review of cracking, deformation, stressing records, anchorage problems and construction quality issues.
Foundation & Site Works	Supports judgement on site constraints, interface works and constructability for complex retrofit or strengthening projects.
Construction Coordination	Supports critical prestressing operations including tendon installation, jacking, grouting and anchorage-zone coordination.

Core Positioning

Prestressing Design & Method Review	Review tendon profile, anchorage layout, jacking sequence, constructability and risk before site execution.
Prestressing Troubleshooting	Diagnose elongation deviation, cracking after stressing, anchorage problems, duct blockage and grouting defects.
External Prestressing Strengthening	Support strengthening concepts for existing beams, bridges, parking structures and industrial buildings.
Specialist Construction Support	Support local contractors during stressing, grouting and key prestressing operations.

2. Problems We Help Solve

Before Construction	Unclear tendon profile, insufficient anchorage space, difficult jacking sequence, conflict with reinforcement or openings.
During Jacking	Measured elongation deviates from theory, abnormal oil pressure, strand slip, wire breakage, inconsistent records.
After Stressing	Cracks near anchorage zones, unexpected deformation, local bursting risk, grouting defects or blocked ducts.
Existing Structures	Need for capacity improvement without heavy demolition, external tendon route review, anchorage and deviator risk.

3. Services and Deliverables

Remote Technical Consultation	Initial review of drawings, photos, records and engineering questions.	Preliminary opinion, risk list, recommended next step.
Design & Method Review	Review design concept, tendon profile, losses, anchorage, sequence and site feasibility.	Review memo, marked-up comments, risk checklist.

Troubleshooting Report	Analyze elongation deviation, cracking, anchorage and grouting issues.	Root-cause analysis, calculation notes, corrective measures.
External Strengthening Support	Review strengthening concept, external tendon path, deviators and anchorage zones.	Concept note, risk review, construction recommendations.
Site Technical Support	Support key operations with local contractors and project teams.	Site technical records, action list, jacking/grouting control advice.

4. Southeast Asia Market Entry Focus

Malaysia	Priority market. English communication, clear construction ecosystem, suitable for consultant support, PT contractor partnership and site support.
Philippines	Good English communication. Suitable for structural consultant support, troubleshooting and design/method review.
Vietnam	Strong industrial and commercial construction market. Best entry through design-build contractors, industrial building teams and local consultants.
Indonesia	Large market but more complex entry. First stage should focus on technical partnership and problem-based consulting.

5. Relevant Project References by Category

Instead of presenting domestic project names directly, overseas communication should package references by project type and engineering problem. The broader engineering group has public overseas references in Malaysia, Indonesia, India and Algeria, including energy, industrial, port and infrastructure-related technical service projects.

Industrial Buildings & Parks	Prestressing support, long-span structure review, construction method review and site technical coordination.
Airport & Public Buildings	Large-span floor systems, transfer structures, crack/control review and specialist construction coordination.
Bridge & Transport Structures	External prestressing strengthening, anchorage/deviator review, inspection evidence and construction-stage support.
Existing Building Retrofit	Structural strengthening, function-change retrofit, limited-space construction and risk-based method review.
Energy, Port & Infrastructure	Technical service experience for overseas industrial and infrastructure projects through the broader engineering system.

6. Cooperation Model

Technical Service	We provide calculation review, method comments, troubleshooting reports and strengthening support.
Local Partner Delivery	The local consultant or contractor remains responsible for local code, license and site contract. We provide specialist prestressing input.
Construction Support	Where local qualification and project conditions allow, we can support or participate in prestressing construction through qualified local partners.
Long-Term Advisor	Monthly technical support for PT contractors, repair companies or design-build teams.

7. What To Send For Review

New PT Project	Structural drawings, PT drawings if available, span/depth information, loads, project stage and target issue.
Jacking Problem	Jacking records, theoretical elongation, oil pressure data, calibration certificate, tendon profile and site photos.
Cracking Issue	Crack location photos, stressing sequence, concrete age/strength, reinforcement and anchorage details.

External Strengthening	Existing drawings, defect description, load demand, available anchorage space, photos and access restrictions.
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Contact: Submit project documents through the website or email/LinkedIn after initial contact. A preliminary review can confirm whether a full technical service is required.