امجاد الكيان
AMJAD AL KAYAN

AMJAD AL KAYAN
TECHNICAL SERVICES L.L.C

BUILDING STRONG STRUCTURES WITH PRECISION ENGINEERING



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UAE

COMPANY OVERVIEW

AMJAD AL KAYAN Technical Services L.L.C is a UAE-based specialized construction and structural engineering company focused on delivering high-performance **shotcrete applications, reinforced concrete (RCC) systems, foundations, basements, and complex structural solutions**.

We are committed to delivering **engineering excellence, durability, and safety-driven construction practices** for residential, commercial, and industrial developments across the United Arab Emirates.



ABOUT US

We are a **project execution-focused engineering company** specializing in advanced structural construction systems using **shotcrete technology and RCC methodology**.
Our organization combines field experience with engineering expertise to execute **complex structural works in challenging site conditions**.

+15K
Projects Completed



BUILT BY EXPERTS, DELIVERED WITH *Excellence*

Our People.
Your Strength.



OUR TEAM INCLUDES

- Civil & Structural Engineers
- Site Engineers & Supervisors
- Shotcrete Nozzle Operators (Certified)
- HSE Safety Officers
- QA/QC Inspectors
- Skilled Technicians & Equipment Operators

WE SERVE THE FOLLOWING SECTORS

- PRIVATE LUXURY VILLAS
- REAL ESTATE DEVELOPERS & CONTRACTORS
- INDUSTRIAL CONSTRUCTION PROJECTS
- INFRASTRUCTURE & UTILITY PROJECTS
- GOVERNMENT & SEMI-GOVERNMENT WORKS

- EXPERIENCED PROFESSIONALS
- SAFETY FIRST
- QUALITY ASSURED
- ON-TIME DELIVERY



EXPERIENCE. EXPERTISE.
EXCEPTIONAL RESULTS.

VISION AND MISSION



Vision Statement

To become a **leading structural engineering and shotcrete execution company in the UAE**, recognized for innovation, reliability, safety, and long-lasting construction quality.

Mission Statement

- Deliver high-strength and durable structural systems
- Apply advanced shotcrete and RCC construction technologies
- Maintain strict quality assurance systems on every project
- Ensure zero-compromise safety standards on site
- Achieve full client satisfaction through engineering excellence
- Build structures designed for long-term performance and sustainability

امجاد الكيان
AMJAD AL KAYAN
TECHNICAL SERVICES L.L.C



OUR SERVICES

Comprehensive construction and structural engineering services delivered with precision, safety and quality.

- SHOTCRETE & STRUCTURAL WORKS
- RCC CONSTRUCTION
- CIVIL & SUBSTRUCTURE WORKS
- SPECIALIZED CONSTRUCTION
- SHOTCRETE TECHNOLOGY (CORE EXPERTISE)
- WET-MIX C35/05 CAPABILITY
- QUALITY ASSURANCE (QA/QC)
- SAFETY STANDARDS

OUR SERVICES

OUR CORE SERVICES









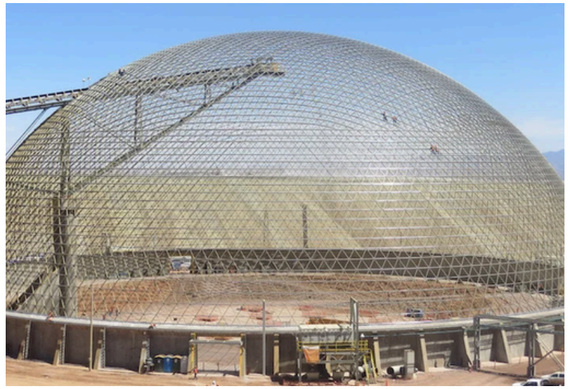
SHOTCRETE & STRUCTURAL WORKS

- Wet-Mix Shotcrete Applications
- Structural Wall Strengthening
- Slope Stabilization Works
- Tunnel & Underground Works

POOL RENOVATION AND REMODELING

- Columns, Beams & Slabs
- Load-Bearing Structural Frames
- Structural Reinforcement Works

OUR SERVICES









CIVIL & SUBSTRUCTURE WORKS

- Basements & Excavation Support Systems
- Foundations & Raft Systems
- Retaining Wall Construction

SPECIALIZED CONSTRUCTION

- Swimming Pool RCC Shells
- Underground Water Tanks
- Dome & Curved Structural Forms
- Industrial Structural Components

SHOTCRETE TECHNOLOGY (CORE EXPERTISE)

OUR SERVICES









TECHNICAL APPLICATIONS

- Retaining & Basement Walls
- Tunnel Linings & Underground Structures
- Structural Repair & Rehabilitation
- Complex Architectural Shapes
- Slope Protection & Stabilization

SPECIALIZED CONSTRUCTION

- Superior bonding with reinforcement steel
- High structural density and strength
- Reduced formwork requirements
- Faster execution compared to conventional methods
- Excellent performance in complex geometries

SHOTCRETE (WET-MIX C35/05)
DETAILED CAPABILITY STATEMENT

OUR SERVICES









SCOPE OF WORK

- Retaining walls & soil stabilization systems
- Structural repair & rehabilitation works
- Swimming pool RCC shell construction
- Underground basements & tank structures
- Tunnel lining & water-retaining structures

MATERIALS USED

- Certified Ready-Mix Concrete (C35/05 Grade)
- Controlled aggregate size suitable for pumping systems
- High-performance admixtures
- Clean potable water as per specification

OUR SERVICES









EQUIPMENT USED

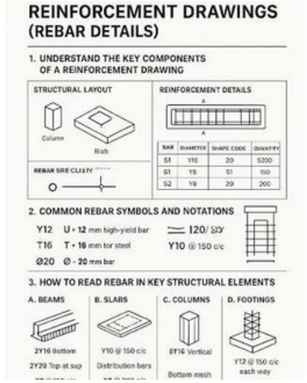
- Wet-Mix Shotcrete Pump Systems (High Pressure)
- Transit Mixer Trucks from Approved Batching Plants
- Air Compressor Units for Nozzle Acceleration
- Shotcrete Nozzle Assembly (Certified Operators)
- Pipeline & Flexible Hose Systems
- Scaffolding, Platforms & Access Systems

APPLICATION PROCEDURE

- Ready-mix concrete delivered to site
- Concrete pumped into shotcrete system
- High-pressure air introduced at nozzle
- Controlled spraying onto prepared surface
- Layer-by-layer build-up to required thickness
- Rebound material removed continuously
- Final surface finishing as per specification

OUR SERVICES









SURFACE PREPARATION

- Cleaning of dust, oil, loose particles
- Mechanical roughening for improved bonding
- Ensuring SSD (Saturated Surface Dry) condition
- Reinforcement fixing as per structural drawings

CURING PROCESS

- Immediate curing after initial setting
- Water curing or approved curing compounds applied
- Minimum curing period: 7–14 days (project dependent)

OUR SERVICES









QUALITY CONTROL SYSTEM

- Continuous thickness monitoring during spraying
- Cube testing for compressive strength (C35 compliance)
- Visual inspection for cracks, voids, and rebound zones
- Approval based on mix design compliance

HEALTH, SAFETY & ENVIRONMENT (HSE)

- Mandatory PPE: helmets, gloves, boots, goggles, respirators
- Certified nozzle operators only permitted
- Scaffolding safety inspection before use
- Dust suppression & rebound control measures
- Daily safety briefing & risk assessment

OUR SERVICES









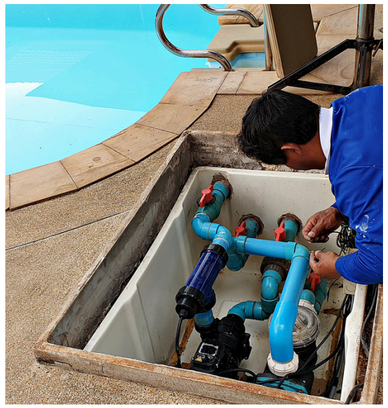
KEY RESPONSIBILITIES

- **Project Engineer:** Execution & technical supervision
- **HSE Officer:** Safety enforcement & compliance
- **QA/QC Engineer:** Quality monitoring & testing
- **Shotcrete Operator:** Controlled application execution

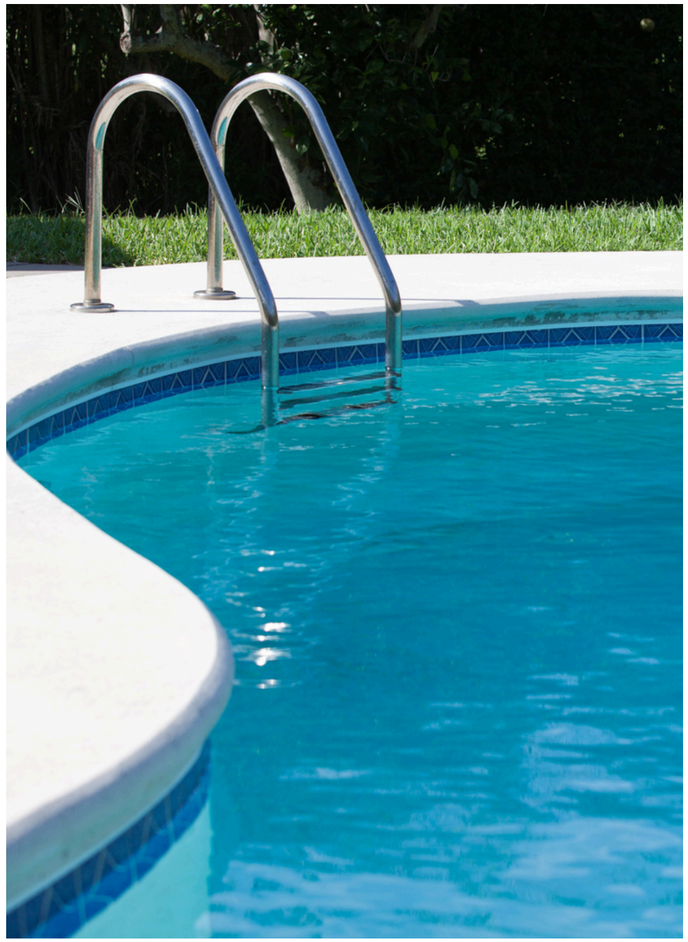
SWIMMING POOLS

OUR SERVICES









We construct **high-strength RCC swimming pool structures** using shotcrete systems.

FEATURES

- Reinforced RCC structural shell
- Waterproofing integration support
- Custom architectural designs
- Long-term crack resistance
- Leak-resistant structural body
- High durability under water pressure
- Smooth finishing readiness

WATER TANK SYSTEMS

OUR SERVICES









We specialize in underground and industrial RCC water storage systems.

- Underground RCC tanks
- Industrial water reservoirs
- Structural waterproofing systems
- Reinforced load-bearing design

KEY ADVANTAGES

- Long operational lifespan with minimal maintenance requirements
- Superior leakage resistance and waterproof protection
- High structural stability under heavy load conditions
- Engineered for harsh environmental and underground conditions
- Built according to modern engineering and safety standards

OUR SERVICES

BASEMENTS & FOUNDATIONS









OUR FOUNDATION SOLUTIONS INCLUDES:

- **Deep Excavation Support**

Safe solutions for deep foundation work.

- **RCC Raft Foundations**

Strong load distribution and stability.

- **Footing Foundation Systems**

Engineered footing systems designed to support structural loads and transfer weight safely into the ground.

- **Basement Structural Walls**

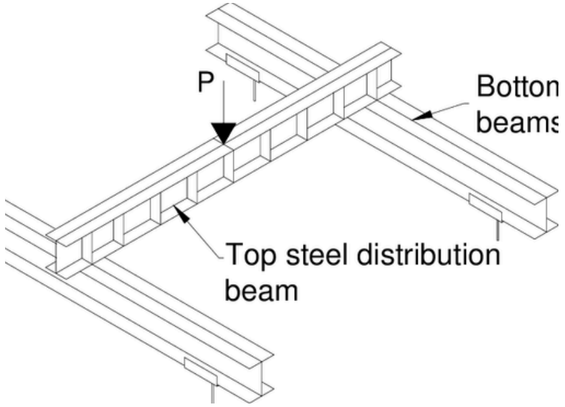
Construction of reinforced basement walls designed to handle underground pressure, moisture resistance, and long-term durability.

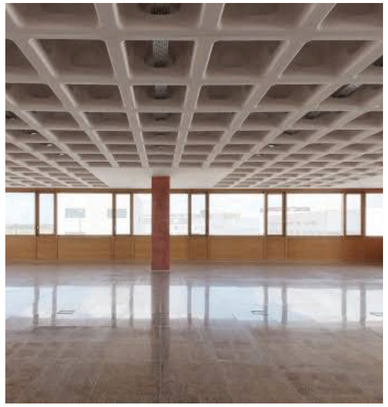
- **Retaining Systems for Soil Pressure Control**

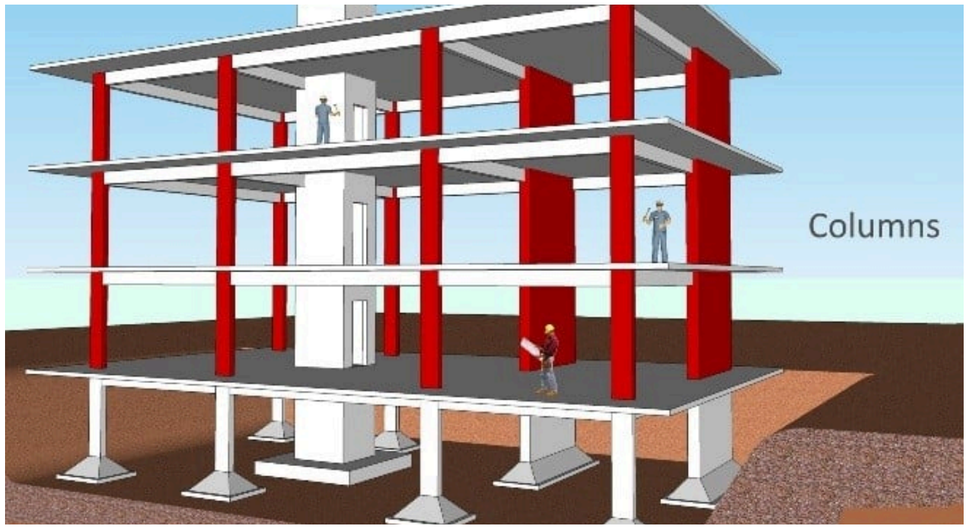
High-strength retaining wall systems built to resist soil movement, pressure forces, and surrounding structural stress.

RCC STRUCTURAL WORKS

OUR SERVICES









OUR RCC SERVICES INCLUDES:

- **Columns & Vertical Structural Members**

Construction of reinforced concrete columns designed to carry vertical structural loads with maximum stability.

- **Beams & Load Distribution Systems**

Strong RCC beam systems designed for proper structural load transfer and balanced weight distribution.

- **Slabs & Floor Structural Systems**

Concrete slab systems built for residential, commercial, industrial, and high-load structural applications.

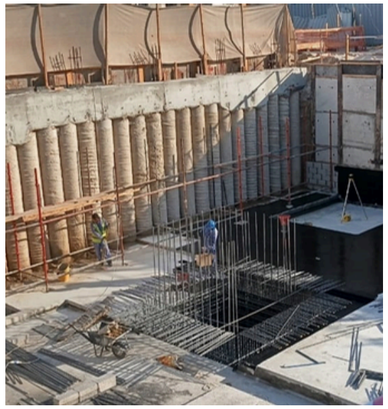
- **Shear Walls & Structural Walls**

High-strength structural walls designed to resist lateral forces, improve structural rigidity, and enhance building safety.

DEEP PILING
CONCRETE PROCESS (SPRAY CONCRETE)

OUR SERVICES









We provide professional Shotcrete (Spray Concrete) solutions for deep piling, foundation support, excavation retention, and underground structures. Using modern equipment and skilled operators, we deliver high-strength, durable, and cost-effective concrete applications for residential, commercial, industrial, and infrastructure projects.

APPLICATIONS:

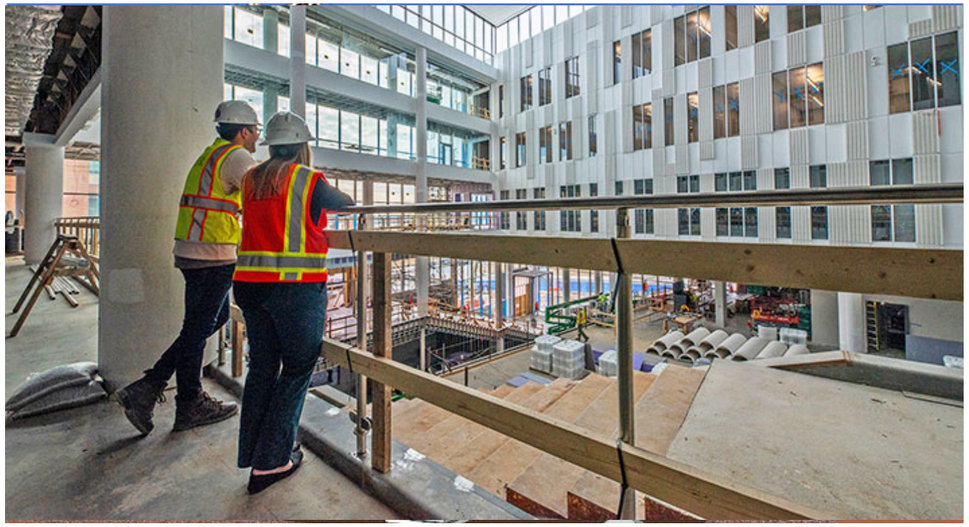
* Deep Piling Support Works
* Pile Caps & Foundations
* Retaining Walls
* Basement Construction
* Slope Stabilization
* Underground Structures
* Structural Repairs & Strengthening

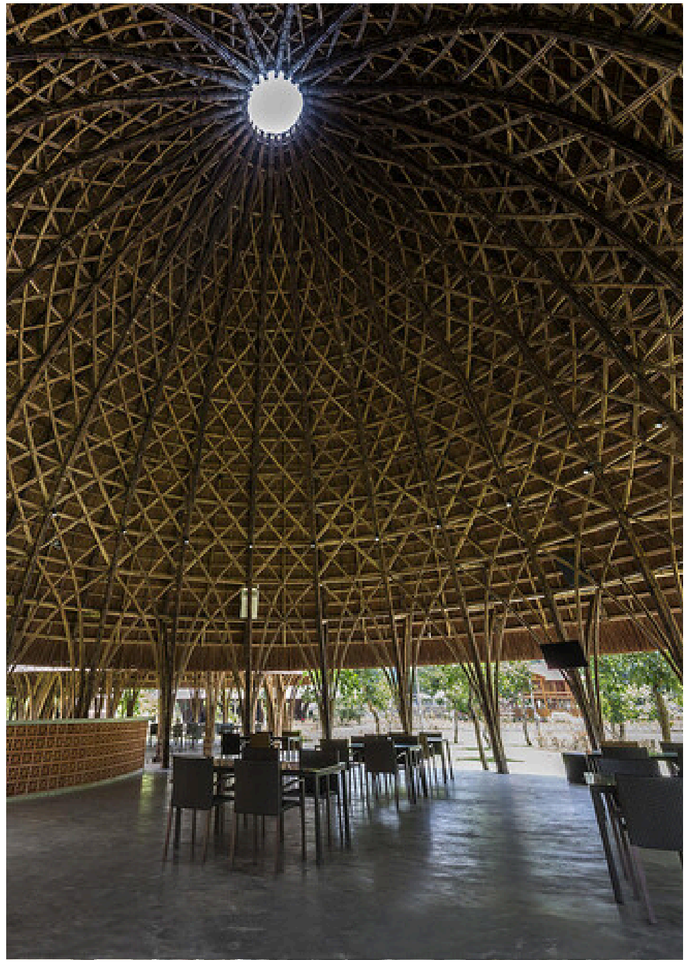
SPECIAL STRUCTURES

OUR SERVICES









SPECIALIZED CONSTRUCTION INCLUDES:

- **Architectural Dome Structures**

Precision-engineered dome structures designed for architectural beauty combined with structural strength.

- **Curved Concrete Formations**

Custom curved concrete structures created for modern architectural and commercial projects requiring advanced shaping techniques.

- **Industrial Silos & Storage Tanks**

Heavy-duty concrete silos and industrial tank structures built for industrial storage, manufacturing, and operational facilities.

- **Custom Structural Engineering Solutions**

Tailor-made structural systems designed specifically according to project requirements, engineering challenges, and architectural demands.

MACHINERY & EQUIPMENT











OUR EQUIPMENT INCLUDES:

- **High Pressure Water Jet**

Powerful system for cleaning, cutting, and surface preparation with high-velocity water flow.

- **High Pressure Concrete Spray Hose**

Heavy-duty hose designed for safe and smooth concrete transfer under high pressure.

- **High Pressure Air Compressor**

Provides stable compressed air for shotcrete application and pneumatic equipment.

- **Wet Concrete Mixture Plant**

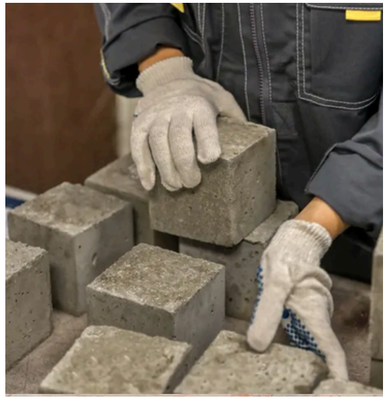
Concrete batching system ensuring accurate mixing and consistent material quality.

- **Shotcrete Pump Machine**

Specialized pump for high-speed concrete spraying with strong adhesion and fast application.

QUALITY ASSURANCE (QA/QC)









OUR QUALITY PROCESS INCLUDES:

- **Material Inspection & Verification**

Checking all materials before use.

- **Site Supervision**

Continuous monitoring by experienced engineers to ensure proper execution according to approved drawings.

- **Concrete Cube Testing**

Strength testing and laboratory analysis to verify concrete performance and structural quality standards.

- **Compliance Monitoring**

Strict adherence to UAE building regulations, engineering specifications, and approved construction procedures.

- **Final Structural Inspection & Approval**

Structural review before project handover.

SAFETY STANDARDS







OUR SAFETY PRACTICES INCLUDE:

- **Zero Accident Policy**

Strict safety measures focused on accident prevention at every stage.

- **PPE Enforcement**

Mandatory use of protective equipment for all workers on site.

- **Machinery Safety**

Regular inspections and safe operation of all equipment.

- **Daily Hazard Checks**

Routine identification and control of workplace risks.

- **Emergency Preparedness**

Effective response systems for handling site emergencies quickly and safely.

SITE SAFETY

EVERY LIFE MATTERS

WORK SAFE • STAY SAFE • GO HOME SAFE



SITE SAFETY RULES

1. **WEAR PPE**
   Always wear required PPE appropriate for the task.
2. **SAFETY FIRST**
   Safety is everyone's responsibility. Work safely and follow all safety rules.
3. **HAZARD AWARENESS**
   Identify hazards before starting work and report immediately.
4. **WORK PERMIT**
   Obtain proper work permit before starting any high-risk activity.
5. **NO SHORTCUTS**
   Never take shortcuts. Follow the approved method of work.
6. **KEEP SITE CLEAN**
   Keep your work area clean and free from waste and obstructions.
7. **SAFE LIFTING**
   Use proper lifting techniques and equipment.
8. **ELECTRICAL SAFETY**
   Check tools and equipment before use. Report any damage.
9. **EMERGENCY**
   Know emergency exits and assembly points.
10. **PROTECT YOURSELF & YOUR TEAM**
    Follow safety procedures and look out for your team.









MANDATORY PPE

- SAFETY HELMET
- SAFETY GLASSES
- SAFETY VEST
- SAFETY GLOVES
- SAFETY SHOES
- RESPIRATORY PROTECTION

PROJECT EXPERIENCE



Luxury villa swimming pools


Underground RCC water tanks



Deep basement structures



RCC structural frames



Shotcrete retaining walls



Industrial structural works

PREVIOUS PROJECTS



Dubai - Al Barari



Dubai - Golf State



Dubai - Pearl Jumirah



Dubai - Al Ferjan



Al Fujairah - Tayba



Abu Dhabi- Alshahama



Dubai - Debba Park



Ras al-Khaimah



Abu Dhabi- Baniyas



Al Ain - Al Hayer

UAE OPERATIONS



Dubai



Abu Dhabi



Sharjah



Ajman



Ras Al Khaimah

WHY CHOOSE US?



Specialized Shotcrete Expertise

Advanced shotcrete solutions for structural, infrastructure, and specialized construction projects.



Skilled & Certified Workforce

Qualified engineers, certified operators, and experienced construction professionals.



Advanced Construction Machinery

Modern equipment and technology ensuring efficient and precise project execution.



Strict QA/QC & Safety Standards

Comprehensive quality control systems with full compliance to safety regulations.



Cost-Effective Engineering Solutions

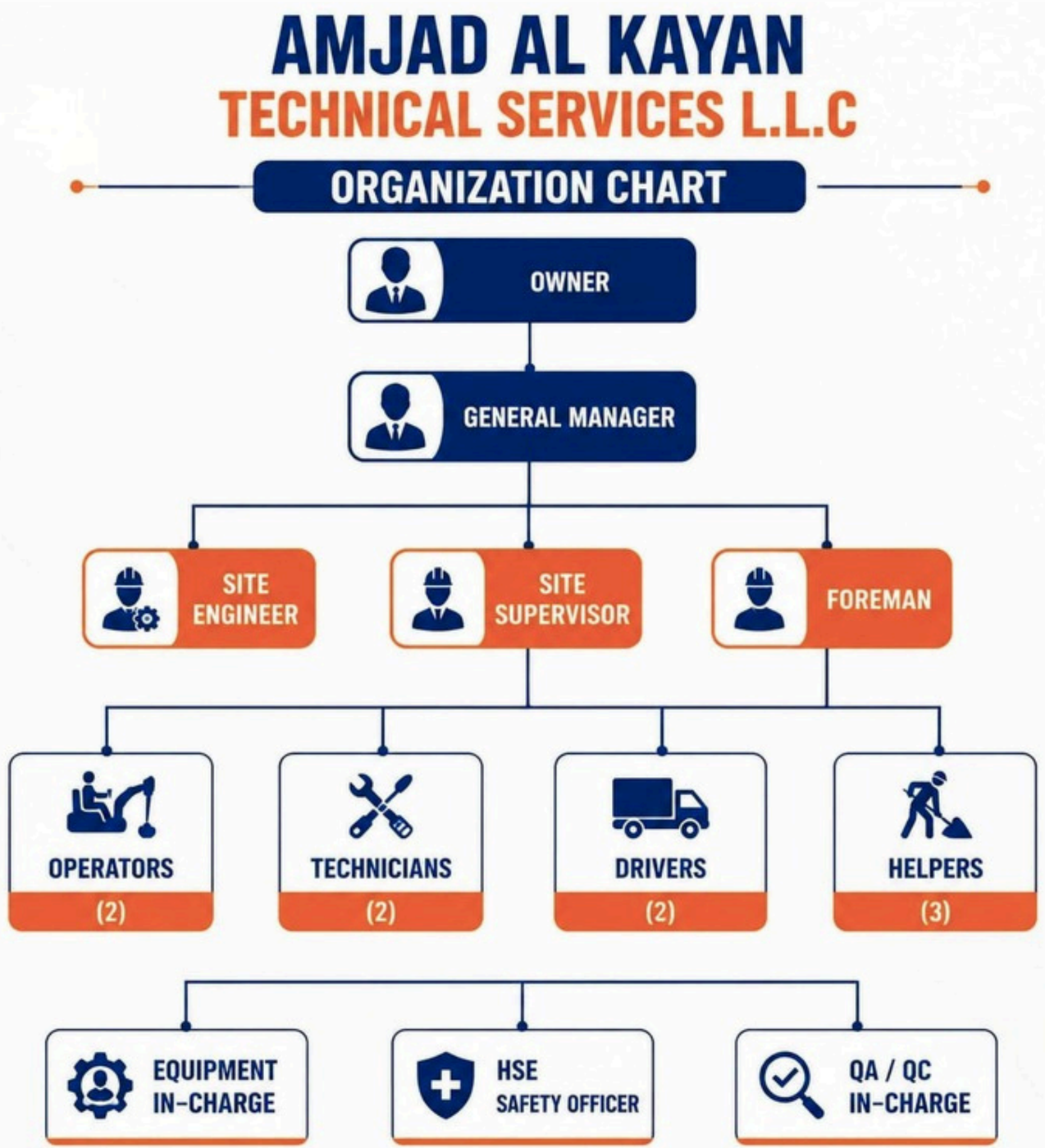
Optimized construction methods that maximize value without compromising quality.



Focus on Structural Durability

Building strong, safe, and long-lasting structures designed for superior performance.

- **Leadership**
- **Owner & General Manager**
  Provide overall leadership and project direction.
- **Operations**
- **Site Engineers, Supervisors & Foremen**
  Manage and supervise daily project activities.
- **Workforce**
- **Operators, Technicians, Drivers & Helpers**
  Support efficient project execution.
- **Compliance**
- **HSE Safety Officer & QA/QC In-Charge**
  Ensure safety, quality, and compliance standards.



CONTACT US



Get in touch with us today to learn how Amjad Al Kayan Technical Services L.L.C can help deliver strong, safe, and durable structures across the UAE.

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United Arab Emirates

WE BUILD STRENGTH
THAT LASTS GENERATIONS

LETS CONNECT...