

شركة رواد الفكر
للاستشارات الهندسية
ROWAD ALFIKR CO.



Rowad Alfikr

ENGINEERING CONSULTANCY COMPANY

WHO WE ARE

Originally established in 2022 in Jeddah as an engineering consultancy office named Global Pioneers, our office rapidly gained recognition for its innovative and comprehensive approach to engineering solutions. In response to increasing demand across Saudi Arabia, we evolved into Rowad Alfikr Engineering Consultancy Company. This transition reflects our expanded capabilities and our commitment to meeting the diverse needs of our clients throughout the region.



VISION STATEMENT

To be a leading engineering company, recognized for delivering innovative solutions with sound engineering

MISSION STATEMENT

To provide unparalleled engineering consultancy services, combining technical excellence with innovative thinking to solve complex challenges and create sustainable solutions for our clients.

CORE VALUES



1. Innovation

Continuously pushing boundaries with creative solutions and new perspectives in engineering.



2. Excellence

Upholding the highest standards in technical accuracy, quality, and service delivery.



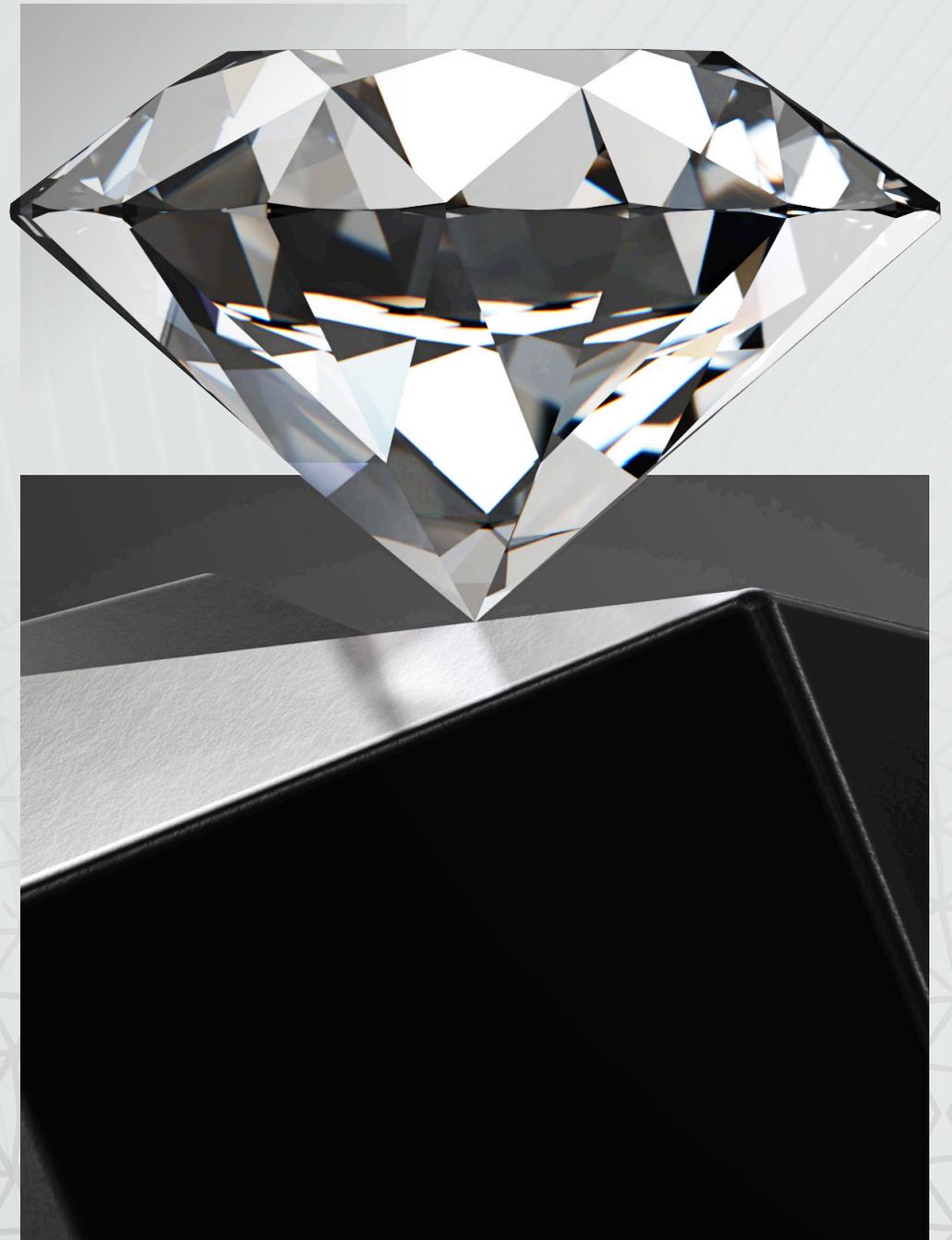
3. Customer-Focused

Prioritizing client needs by tailoring solutions to their unique challenges and aspirations.



4. Accountability

Taking full responsibility for the quality, impact, and outcomes of our work





| OUR SERVICES

01

Residential and Commercial Building Design

Rowad Alfikr Company has consistently prioritized design integrity across architecture, interior design, and landscape architecture, ensuring seamless integration of structural materials, MEP systems and finishes with sustainability for cost-effective buildings.



ARCHITECTURAL DESIGN:

Crafting functional and aesthetically pleasing building concepts.



STRUCTURAL ENGINEERING:

Developing robust structures that meet safety and performance standards.



MEP DESIGN:

Designing efficient mechanical, electrical, and plumbing systems.



BIM SERVICES:

Utilizing advanced modeling for integrated project planning.



INTERIOR AND LANDSCAPE DESIGN:

Creating harmonious interior spaces and outdoor environments.



02

Industrial Projects Consultancy

At Rowad Alfikr Company, we specialize in delivering detailed engineering services for industrial projects, including oil and gas, petrochemical, power plants, pipelines, tank farms, water and wastewater treatment, utilities, offsite facilities, and MEP projects. Our expertise encompasses the following disciplines:

A. Mechanical Engineering



PROCESS DESIGN:

Designing and optimizing systems such as heating, ventilation, air conditioning (HVAC), and other mechanical processes.



PIPING SYSTEMS:

Developing layouts, conducting stress analysis, and selecting materials for industrial piping systems.



STATIC AND ROTATING EQUIPMENT:

Designing and selecting heat exchangers, pressure vessels, compressors, and pumps.



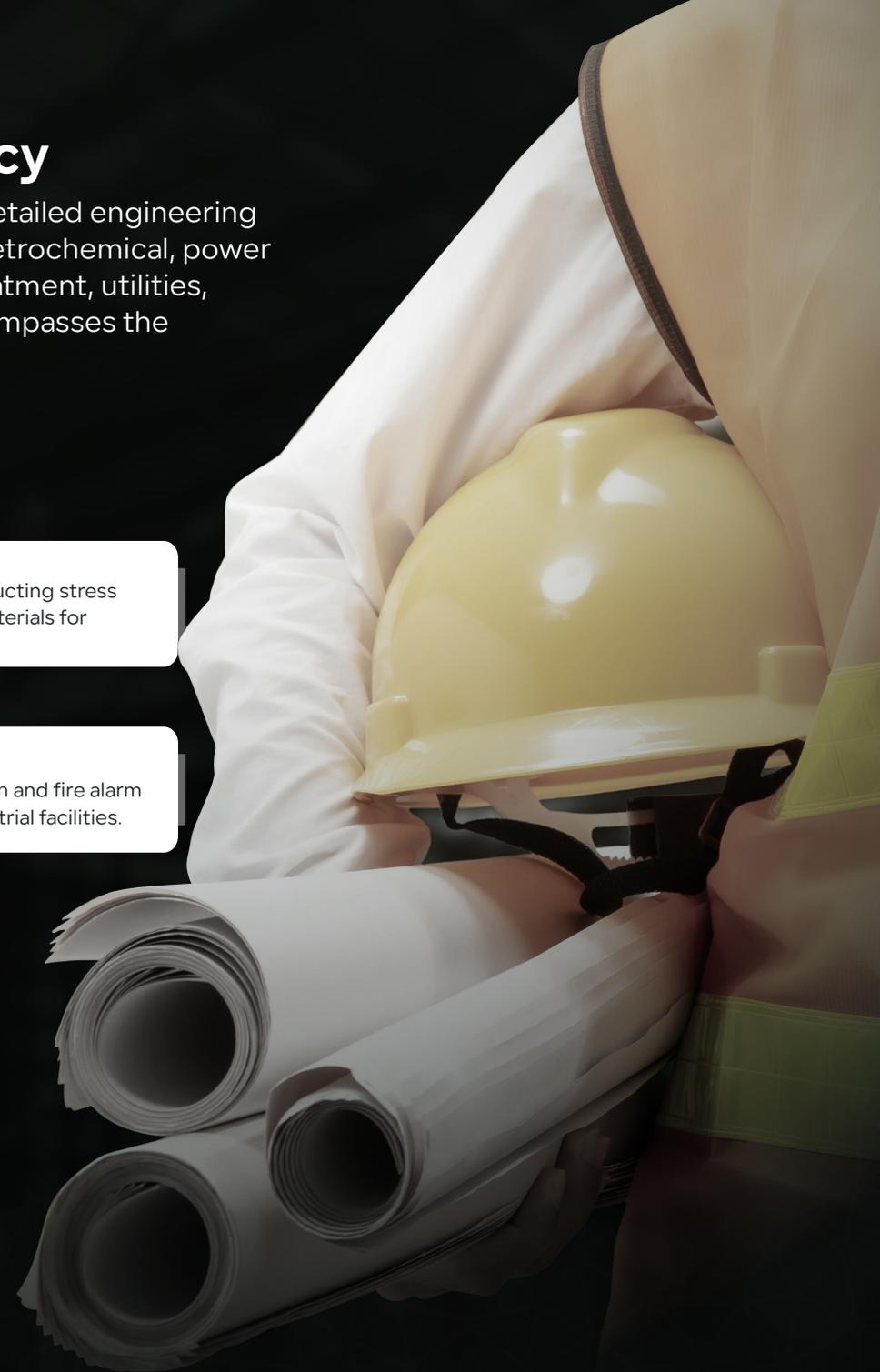
FIREFIGHTING SYSTEMS:

Designing fire suppression and fire alarm systems tailored for industrial facilities.



MATERIAL HANDLING SYSTEMS:

Designing conveyor belts, cranes, and other logistics equipment for optimal efficiency.



B. Electrical Engineering



POWER DISTRIBUTION SYSTEMS:
Developing medium and low voltage systems for plants.



LOAD ASSESSMENT:
Ensuring adequate power supply for all processes and equipment.



ELECTRICAL CALCULATIONS:
including Short circuit calculation, load flow analysis, voltage drop calculations, lighting calculations, Transformer sizing calculations, Generator calculation, Lightning Risk assessment and Grounding grid calculations



LIGHTING SYSTEMS:
Designing lighting systems for operational efficiency and safety.



GROUNDING AND LIGHTNING PROTECTION:
Ensuring electrical safety in compliance with the standards



AUTOMATION AND CONTROL SYSTEMS:
Designing and implementing PLC, SCADA, and DCS systems for process control and automation.

C. Civil/Structural Engineering



FINITE ELEMENT ANALYSIS:
Conducting detailed simulations to evaluate structural performance and ensure safety.



STRUCTURAL ANALYSIS AND DESIGN:
Developing foundations, steel frameworks, and support structures for equipment and industrial buildings.



ROADS AND PAVEMENTS:
Designing internal roads for industrial plants and heavy-duty pavements for vehicle access.



DRAINAGE AND SITE GRADING:
Designing efficient stormwater management systems and optimizing site layouts



VIBRATION AND DYNAMIC ANALYSIS:
Ensuring the structural integrity of facilities subjected to heavy machinery and dynamic loads.

D. Process Engineering



PROCESS FLOW DIAGRAMS (PFDS):

Designing and optimizing industrial processes for manufacturing or chemical production.



PIPING AND INSTRUMENTATION DIAGRAMS (P&IDS):

Creating detailed schematic designs for process systems.



HAZARD ANALYSIS (HAZOP/HAZID):

Identifying and mitigating risks in industrial processes.



MASS AND ENERGY BALANCES:

Calculating material and energy flows within industrial systems to ensure efficiency.

E. Instrumentation and Control Engineering



AUTOMATION SYSTEMS:

Designing and integrating sensors, actuators, and control systems for process optimization.



INSTRUMENTATION:

Selecting and installing flow meters, pressure sensors, and temperature controls.



03

Construction Supervision

Rowad Alfikr Company provides expert construction supervision to ensure projects meet technical, budget, and schedule requirements. Our dedicated team monitors all aspects of construction to minimize risks, prevent errors, and maintain high quality standards.

We offer comprehensive construction supervision, including:



PROGRESS MONITORING:

Ensuring construction aligns with contract drawings, schedules, and specifications.



QUALITY CONTROL:

Regular audits and inspections to ensure high standards are maintained.



HEALTH, SAFETY & ENVIRONMENT:

Monitoring contractor compliance with safety and environmental provisions.



DESIGN IMPLEMENTATION:

Ensuring contractors correctly interpret and implement the design intent.



CONTRACT ADMINISTRATION:

Overseeing contractor planning, reviewing schedules, verifying payments, and assessing claims. With extensive experience in various sectors, we ensure projects are completed on time, within budget, and to specification, with continuous site supervision and support.



| OUR PROJECTS

SN	Short Description	Client Name
1	Construction supervision for the New store in Jeddah	Panda Retail Company
2	Site survey and Evaluation of structure safety of an existing store	TECHNO, Technical Electromechanical Works Co. LTD.
3	Construction supervision for the New store in Makkah	Panda Retail Company
4	Evaluation of structure safety of existing warehouse	Eco Construction Company
5	Arch shop drawings	Eco Construction Company
6	Design of the New Visitor Center facility building , New Gatehouse facility and New SCC facility building	SALEM AGENCIES AND SERVICES COMPANY (SAS)
7	Steel Structure Risk Assessment for the New store in Majardah	Panda Retail Company
8	GIS design for potable water assets.	Saudi Services for Electro Mechanic Works
9	Design of the New search facility building including	SALEM AGENCIES AND SERVICES COMPANY (SAS)
10	3D Modelling and shop drawings for architectural project	Al Yami
11	Padel Court Structural Verification	Faris Group Total Sport Solutions
12	Technical Assessment of an existing building	Alsulaiman Group
13	3D Modelling and shop drawings for an entertainment project	Faris Group Total Sport Solutions
14	Design of the New Search facility Building and the New guardhouse Building	Modern Chemicals and Services Company
15	Design of shops drawings for civil works in SWCC Plant Phase 1 & Phase 2	SALEM AGENCIES AND SERVICES COMPANY (SAS)
16	Design of Transformer and Gantry foundations using micropile foundations	Linxon Sweden AB
17	Design of support and connection design to withstand 12 ton shaft and hub including calculation report and method of statement	Global Environmental Management Services (GEMS)
18	Design for pipe support on tank connection	SPECIAL CATEGORY FOR CONTRACTING COMPANY
19	Structural Analysis and design of greenhouse and shade house	NESMA United Industries
20	Foundation Design for GLS tank	Batik General Contracting Est
21	Design of Guardhouse & security Equipment Building	SALEM AGENCIES AND SERVICES COMPANY (SAS)
22	Designing a 3D video	Protection and Commercial Services Company

| OUR MAIN CLIENTS



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