

✦ I S O C E R T I F I E D

Formulated for the Field. Proven in the Lab.

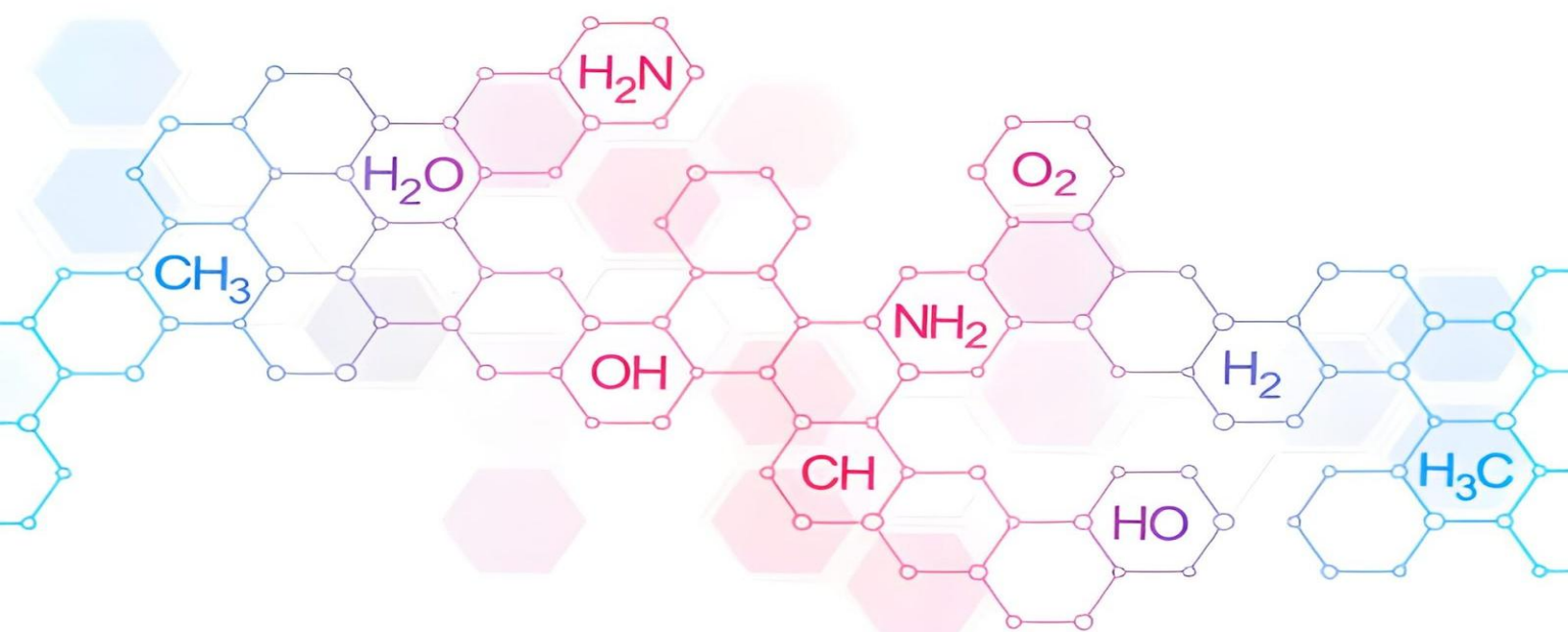
ZARAR CHEMICALS PVT LTD — PAKISTAN'S EMERGING OILFIELD CHEMICAL MANUFACTURER

Delivering high-performance specialty chemicals and technical services to Pakistan's upstream oil & gas industry — backed by science-driven R&D and seasoned industrial professionals

Drilling Fluids Inhibitors | Stimulation & Frac Clay Stabilizers | Well Cementing Shale Inhibitors | H₂S Scavengers | Demulsifiers | Scale Inhibitors | Biocides | Surfactants | Corrosion

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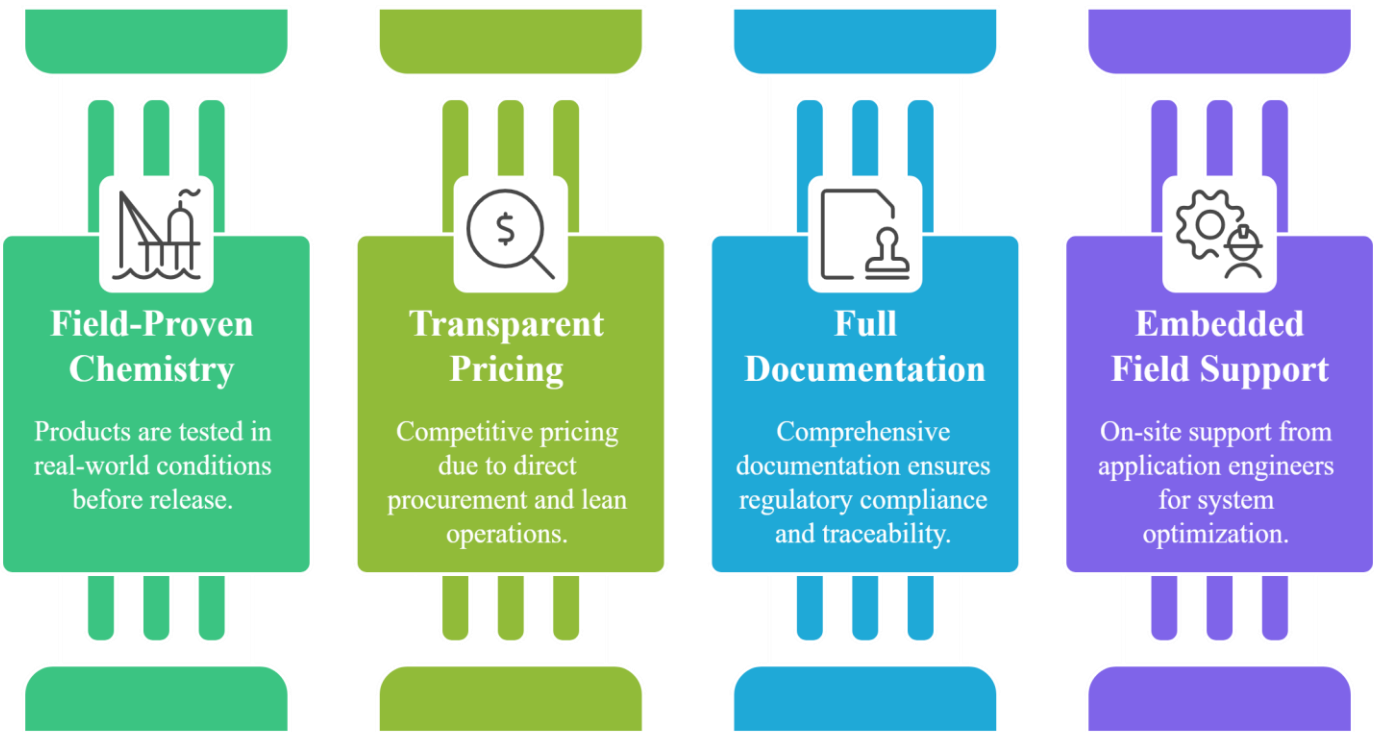
EXECUTIVE OVERVIEW

Zarar Chemicals Pvt Ltd is a specialized manufacturer and distributor of high-performance oilfield chemicals, engineered to deliver consistent downhole performance while materially reducing total operational expenditure. Operating exclusively within the oil and gas sector, the Company offers a comprehensive, field-validated portfolio spanning drilling fluid additives, well cementing systems, and stimulation chemicals, each formulated to perform reliably across diverse reservoir conditions and regulatory environments.

By integrating direct raw material procurement, lean blending protocols, and optimized supply chain logistics, Zarar Chemicals delivers premium grade chemistry at highly competitive, transparent pricing. Every shipment is accompanied by complete technical documentation Certificates of Analysis (CoA) and Safety Data Sheets (SDS) ensuring full batch traceability and seamless integration into existing mud, cement, or stimulation programs.

The Company is led by Mubashir Raza, a seasoned industry professional with over 18 years of hands-on experience in oilfield fluids management, chemical application engineering, and downhole system optimization. Under his leadership, Zarar Chemicals has built a customer-centric, technically driven model that combines deep field expertise with agile supply chain execution.

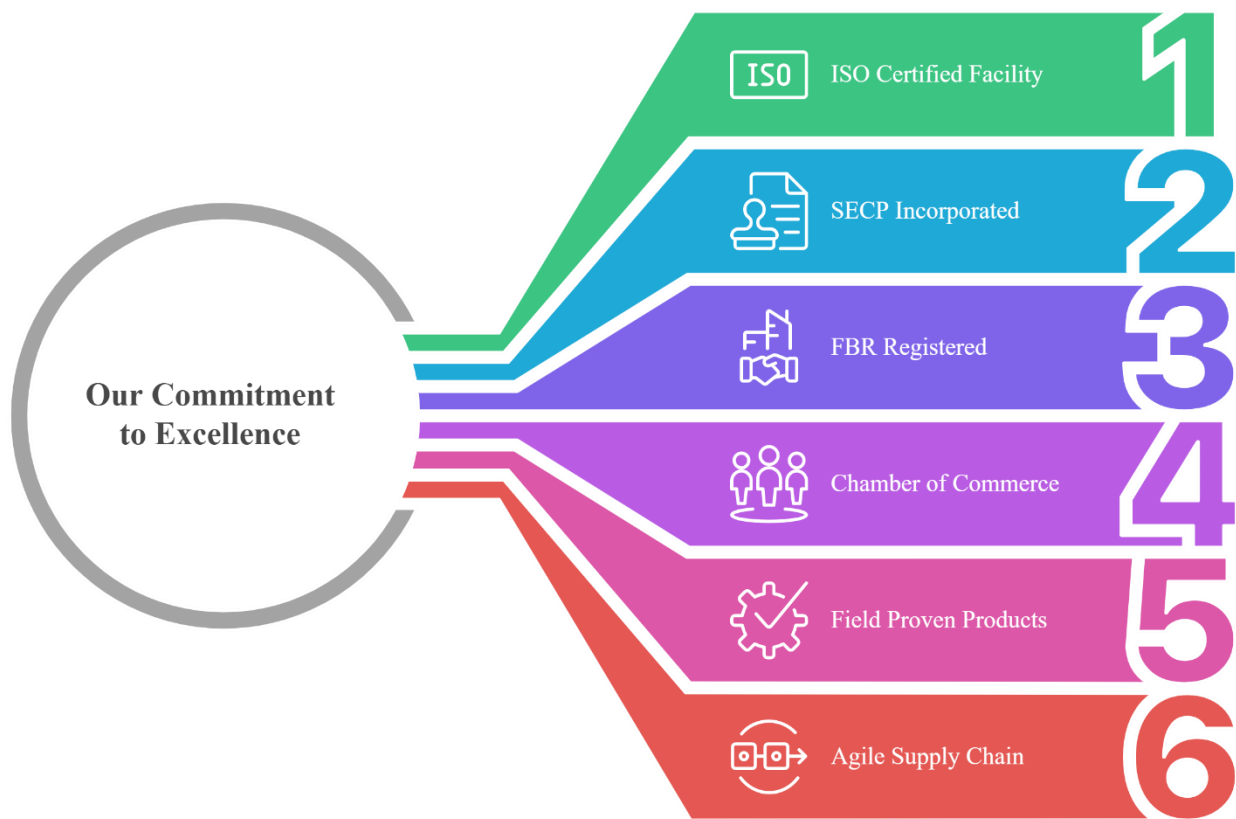
Key Differentiators



REGISTERED. CERTIFIED. COMPLIANT.

Zarar Chemicals Pvt Ltd operates in full compliance with Pakistan's regulatory framework and international standards giving clients, partners, and stakeholders complete confidence in our legal standing, financial transparency, and environmental responsibility.

Unveiling Our Commitment to Excellence



**PAKISTAN'S FIRST LOCALLY OWNED, ISO-ALIGNED OILFIELD CHEMICAL MANUFACTURER
PAYING TAXES IN PAKISTAN, EMPLOYING PAKISTANIS, AND REDUCING THE COUNTRY'S
IMPORT DEPENDENCY ON FOREIGN CHEMICAL SUPPLIERS.**

MISSION, VISION & CORE VALUES

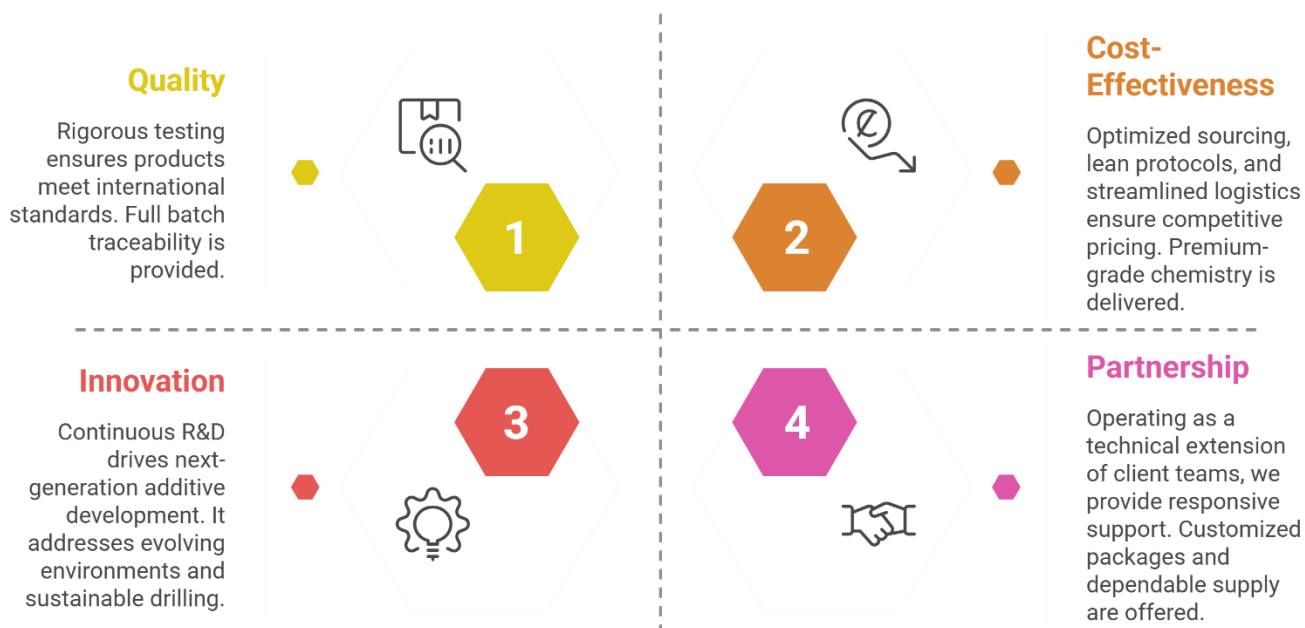
Vision

To set a new industry benchmark by delivering rigorously quality-controlled chemical solutions that consistently perform under the most demanding downhole conditions while remaining economically accessible, strategically priced for operators worldwide and avoid Pakistan's dependency on imported chemicals.

Mission

To establish Pakistan's first integrated oilfield chemical manufacturing and export facility, delivering a complete, locally engineered portfolio of drilling fluid additives, well cementing systems, and stimulation chemicals. Through localized production, continuous R&D investment, and optimized supply chains, Zarar Chemicals aims to reduce import dependency, empower Pakistan's energy sector, and emerge as a trusted regional exporter of high-performance, field-proven oilfield chemistries.

Core Values



PRODUCTS & SERVICES

1. Drilling Fluid Additives

Formulated to optimize rheology, control fluid loss, stabilize reactive shales, and enhance lubricity across water-based, oil-based, and synthetic mud systems. The product range includes viscosifiers, fluid loss control polymers, shale inhibitors, lubricants, and Lost Circulation Materials (LCM), engineered for consistent performance across varying formation conditions and temperature-pressure regimes.

Product Code	Product Name	Function / Description
ZM600	ShaleGUARD-AM	Amine-based shale inhibitor for reactive clay stabilization.
ZM601	ShaleGUARD-CH	Cationic shale inhibitor for water-sensitive formations.
ZM602	ShaleGUARD-GLYCOL	Glycol-based inhibitor for HPHT shale applications.
ZM020	XANTHAN-PRIME	Xanthan gum viscosifier for water-based mud systems.
ZM021	XANTHAN-PRIME HT	High-temperature xanthan gum for elevated BHST wells.
ZM200	MudLUBE XT	Extended-performance lubricant for directional drilling.
ZM201	Friction GUARD	Friction-reducing additive for improved lubrication and wear protection.
ZM220	LubriSeal G50	Graphite-based lubricant (50 mesh) for torque reduction.
ZM220-100	LubriSeal G100	Graphite lubricant (100 mesh) for precision applications.
ZM220-400	LubriSeal G400	Fine graphite (400 mesh) for tight wellbore conditions.
ZM124	Citric Acid	pH control and scale inhibition in drilling fluids.
ZM302	SulfGUARD 35	H ₂ S scavenger (35%) for drilling fluid protection.
ZM250	BioSHIELD	Biocide for microbial control in water-based systems.

ZM251	BioSHIELD Plus	HT biocide for aggressive bacterial environments in HT environments (above 250degF).
ZM001	MudFOAM SHIELD	Defoamer for foam control in drilling operations.
ZM463	CasingCLEAN	Casing wash fluid for pre-cement hole conditioning.
ZM1000	ThermalShield	HPHT thermal stabilizer for deep well applications.
ZM401	MudAWAY	Drilling Detergent for mud.
ZM331	MICA C/M/F (LCM)	Mica-based lost circulation material (coarse/medium/fine).
ZM332	CaCO ₃ C/M/F (LCM)	Calcium carbonate for LCM and Weighing agent.
ZM500	GYPSUM	
ZM100	BARITE	Weighing Agent.

2. Well Cementing Chemicals

Engineered to ensure dependable zonal isolation, predictable thickening time, and long-term wellbore integrity. Cementing additives are tested for compatibility and performance under standard to elevated temperature and pressure regimes, covering retarders, accelerators, fluid loss control agents, dispersants, and density modifiers.

Product Code	Product Name	Function / Description
ZC800	AquaFLUSH PRO	Water-based spacer for effective mud/cement displacement.
ZX810	AQUAFLUSH Stabilizer	Spacer HT stabilizer for improved mud removal efficiency in HTHP environments (upto 350degF)
ZC200	FlowCEM CD	Cement dispersant for improved slurry rheology.
ZC102	CemRETARD MT	Medium-temperature retarder for extended pumping time.
ZC104	CemRETARD HT	High-temperature retarder for deep/HPHT well applications.
ZC701	LossCONTROL FIBER	Fibrous fluid loss additive for cement slurry control.

ZC900	Silica 200	Silica flour for HPHT strength retrogression prevention.
ZC829	OBMFLUSH SURF	OBM-compatible surfactant flush for mud film removal.
ZC901	SilicaSAND70-200	Silica Sand for HW cementing
ZC903	MicroFINE Silica400	400 mesh Silica
ZC421	SilicateEXTEND	Sodium silicate extender for lightweight cement design
ZC605	RheoHOLD	Thixotropic Rheology modifier for enhanced slurry suspension
ZC001	CemFOAMSHIELD	Antifoam agent for air entrainment control in slurries
ZC450	FLYASH	Class F fly ash for cement volume extension and cost reduction
ZC545	Hematite	High-density weighting agent for heavyweight cement slurries
ZC455	Cenosphere	LW Extender
ZC460	SilicaFUME	Strength Enhancer

3. Stimulation & FRAC Chemicals

High-efficiency formulations developed to maximize reservoir contact, reduce pumping pressure, improve proppant transport, and protect formation permeability. The portfolio covers corrosion inhibitors, H₂S scavengers, crosslinkers, surfactants, clay stabilizers, and breaker systems optimized for both conventional and unconventional stimulation programs.

Product Code	Product Name	Function / Description
ZS701	ClayGUARD AM	Amine-based clay stabilizer for frac fluid systems
ZS702	ClayGUARD CS	Cationic clay stabilizer for post-frac protection
ZS101	STEELSAFE M	Multi-purpose corrosion inhibitor for Stimulation
ZS102	STEELSAFE HT	High-temperature CI for aggressive acidizing operations (up to 400 F)

ZS400	NexSURF-S	Non-IONIC surfactant for Stimulation treatment
ZS360L	FeroLOCK-L	Liquid Iron Control Additive
ZS361	FeroLOCK	Iron Control Additive
ZS415	SludgeGUARD AS	Asphaltene sludge inhibitor for crude oil stabilization
ZS416	Emulshield NE	Non-emulsifier for acid stimulation fluid systems
ZS30250	SulfGUARD 50	High-concentration H ₂ S scavenger (50%) for severe sour environments
ZS289	VexisFLOW	Viscoelastic Surfactant Blend for Carbonate stimulation
ZS289M	VexisFLOWMAX	HT Viscoelastic Surfactant Blend for Carbonate stimulation
ZS302	SulfGUARD-35	Removal of hydrogen sulfide (H ₂ S) during oilfield stimulation

4. Water Treatment Products

Beyond oilfield operations, Zarar Chemicals extends its chemical engineering expertise to industrial and municipal water treatment applications. Our water treatment portfolio is formulated using the same rigorous quality protocols as our oilfield chemistry delivering proven performance for produced water management, cooling systems, boiler circuits, and general industrial water treatment requirements.

Water Treatment Chemicals

Engineered to address scale, corrosion, biological fouling, and clarification challenges across produced water handling, injection systems, cooling towers, boiler feedwater circuits, and industrial process water applications.

Product Code	Product Name	Function / Description
ZW101	ScaleGUARD PW	Phosphonate-based scale inhibitor for produced water reinjection systems; controls CaCO ₃ , BaSO ₄ and CaSO ₄ scale
ZW102	ScaleGUARD HT	High-temperature scale inhibitor for steam injection and hot water systems; stable to 200°C
ZW200	CorroSHIELD W	Film-forming corrosion inhibitor for carbon steel in cooling water and produced water circuits

ZW201	CorroSHIELD AZ	Azole-based corrosion inhibitor for copper alloys in heat exchangers and condenser systems
ZW300	BioKILL CT	Non-oxidizing biocide for cooling tower and process water biological fouling control
ZW301	OxiCLEAR	Oxidizing biocide (stabilized hypochlorite) for bacterial and algal control in open cooling systems
ZW400	ClarityCLEAR	Cationic flocculant for produced water clarification and suspended solids removal
ZW401	ClarityPLUS	Anionic polyacrylamide flocculant for enhanced settling in produced water separation vessels
ZW500	AntiSCALE BW	Antiscalant and dispersant blend for boiler feedwater scale prevention
ZW501	OxyGUARD BW	Oxygen scavenger (sodium sulfite / DEHA blend) for boiler feedwater protection
ZW600	InjectionGUARD	Multi-functional water injection additive: scale inhibition + oxygen scavenging + biostatic protection
ZW700	DeoilSOLV	Deoiling chemical for produced water treatment prior to discharge or reinjection; reduces TPH to compliant levels
ZCR110WT	CorrGuARD OF	Industrial/oilfield corrosion inhibition, UV stabilization
ZS106TG	ChillGuard CI	Functional fluids, cooling system corrosion inhibition
ZS108WT	CorrGuARD WT1	Industrial water treatment (cooling towers, heat exchangers)
ZW100L	Scale DEFEND HT LITE	Scale inhibition in cooling towers, boilers, RO systems, oil & gas
ZW101-B	SCALEDEFEND-CW B	Industrial water treatment (cooling towers, heat exchangers)
ZW104	Scale DEFEND WT	Scale inhibition in cooling towers, boilers, RO systems, oil & gas

ZW105	Scale DEFEND RO	Scale inhibition in RO systems, cooling towers, boilers, oil & gas
ZW106	BrineSAFE-50	Scale inhibition, corrosion inhibition, microbiological control
ZW109	CorrScaleShield NI	Cooling water systems — industrial and commercial

Water Treatment — Technology Delivered

Scale Control

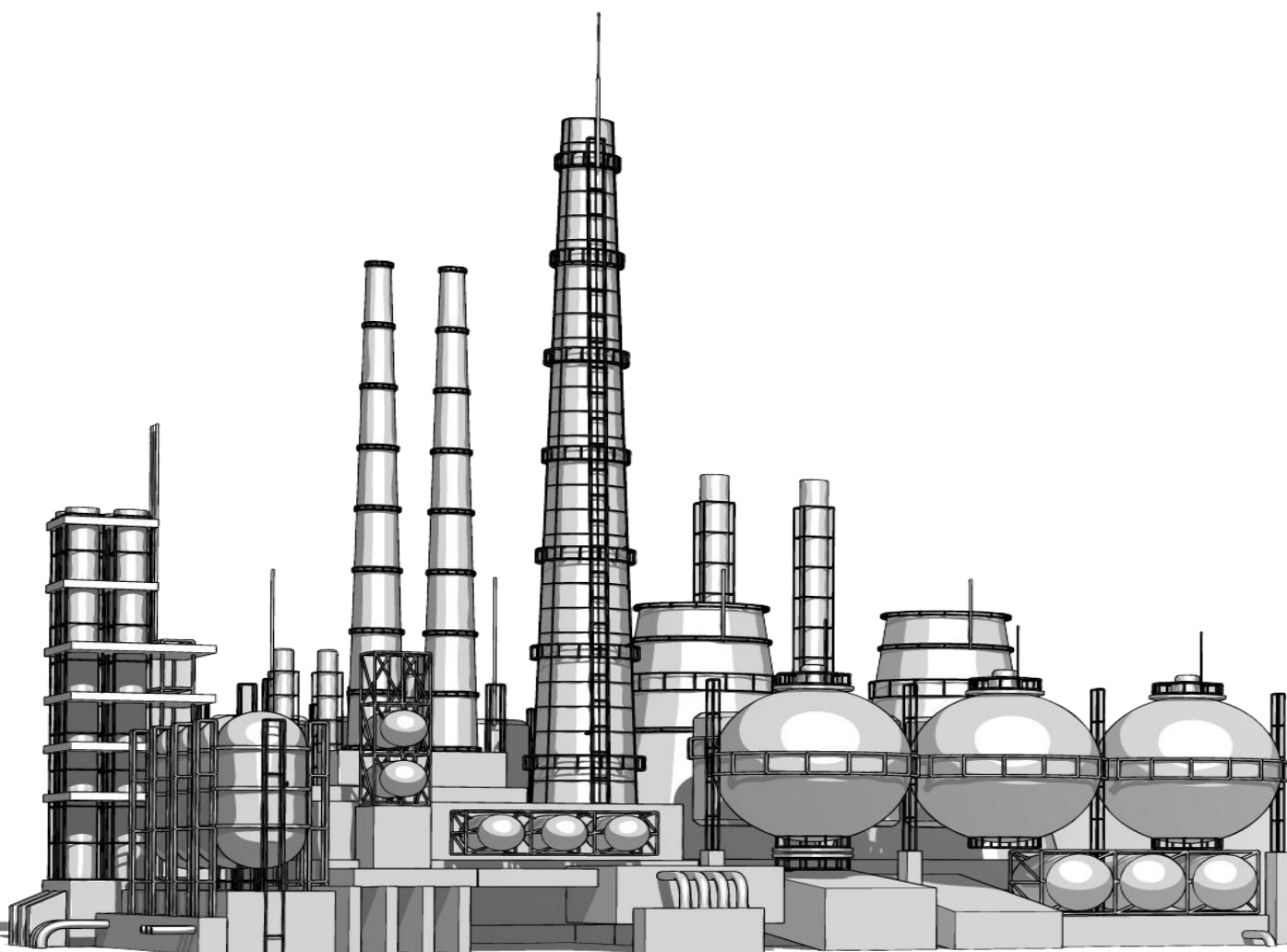
Threshold inhibition, crystal modification, and dispersancy to keep injection wells, heat exchangers, and pipelines scale-free.

Corrosion Protection

Film-forming and passivation chemistry protecting carbon steel, copper alloys, and stainless systems in aggressive water environments.

Biological Control

Oxidizing and non-oxidizing biocides for SRB, APB, and algae control in produced water and cooling systems.



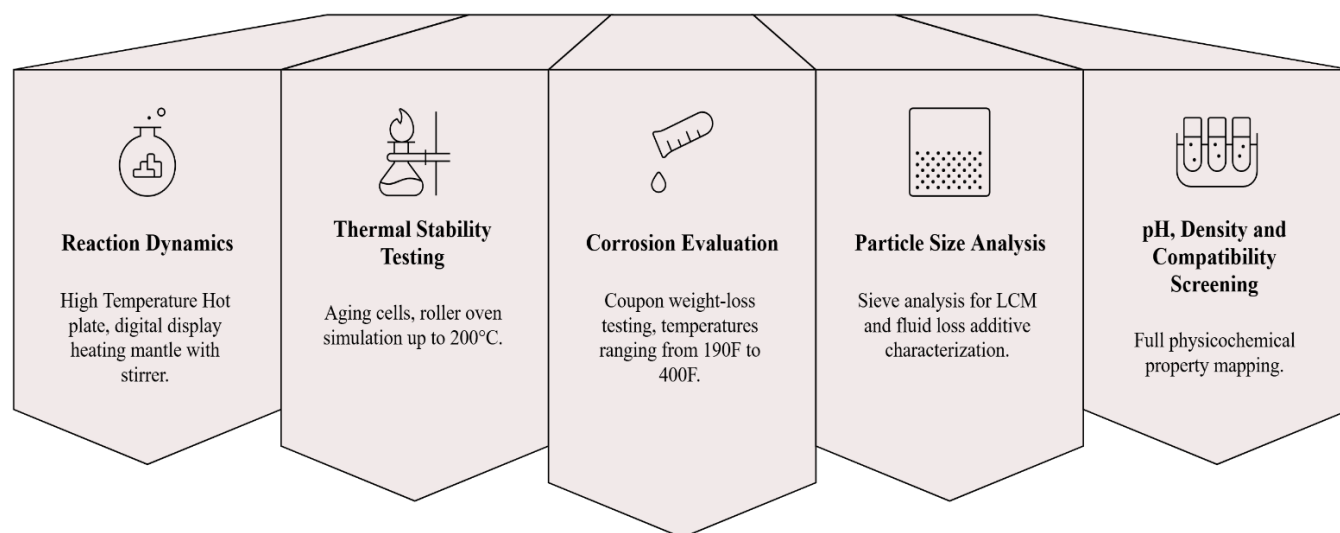
RESEARCH AND DEVELOPMENT

Research and development are the foundation of Zarar Chemicals' competitive differentiation. Rather than relying exclusively on formulated imports, the Company invests in proprietary in-house chemistry that can be tailored to specific reservoir conditions, regulatory environments, and client performance requirements. This approach enables faster iteration, cost-effective customization, and long-term intellectual property development.

R&D Infrastructure

Zarar Chemicals operates a dedicated R&D laboratory staffed by MPhil-qualified chemists with specialized expertise in oilfield fluid chemistry. The laboratory is equipped for:

- Reaction Dynamics — High Temperature Hot plate, digital display heating mantle with stirrer
- Thermal stability testing — Aging cells, oven simulation up to 200°C
- Corrosion evaluation — Coupon weight-loss testing, temperatures ranging from 190F to 400F
- Particle size analysis — Sieve analysis for LCM and fluid loss additive characterization
- pH, density and compatibility screening — Full physicochemical property mapping



R&D through Partner labs

Zarar Chemicals maintains strategic collaborative arrangements with leading academic and research institutions across Pakistan, including LUMS, NUST, and the University of Gujrat, to support its research and development initiatives. By leveraging the advanced infrastructure and expertise available at these partner universities, we conduct a comprehensive range of analytical and characterization testing to ensure the highest standards of product quality and innovation. Our testing capabilities through these

partnerships encompass advanced techniques such as Nuclear Magnetic Resonance (NMR), High-Performance Liquid Chromatography (HPLC), Gas Chromatography-Mass Spectrometry (GC-MS), Mass

Spectrometry (MS), and Contact Angle measurements. Additionally, we utilize surface and structural analysis methods including Scanning Electron Microscopy (SEM), X-Ray Fluorescence (XRF), and X-Ray Diffraction (XRD) to gain deep material-level insights into our chemical formulations. These partnerships not only strengthen our R&D capabilities but also reflect Zarar Chemicals' commitment to science-driven development, continuous improvement, and staying at the forefront of chemical innovation

R&D Investment Philosophy

Zarar Chemicals allocates a dedicated portion of revenues to R&D, recognizing that next-generation chemistry is the pathway to premium market positioning, reduced client operational costs, and long-term competitive moats. Strategic R&D priorities include HPHT performance limits, environmentally acceptable chemistry, and unconventional reservoir stimulation.

"Formulated in the Lab. Proven in the Field"



QUALITY, HEALTH, SAFETY & ENVIRONMENT

QHSE Overview & Commitment

As a newly established chemical manufacturing and blending company specializing in Oil & Gas chemicals including cementing, stimulation, drilling fluids, production & refinery chemicals and Industrial Water Treatment solutions, we recognize that Quality, Health, Safety, and Environment (QHSE) are not mere compliance obligations but the foundational pillars of our business.

We are committed to building a robust QHSE management system from the ground up, aligned with internationally recognized standards, and embedded into every process, product, and interaction from day one.

Our QHSE Mission Statement

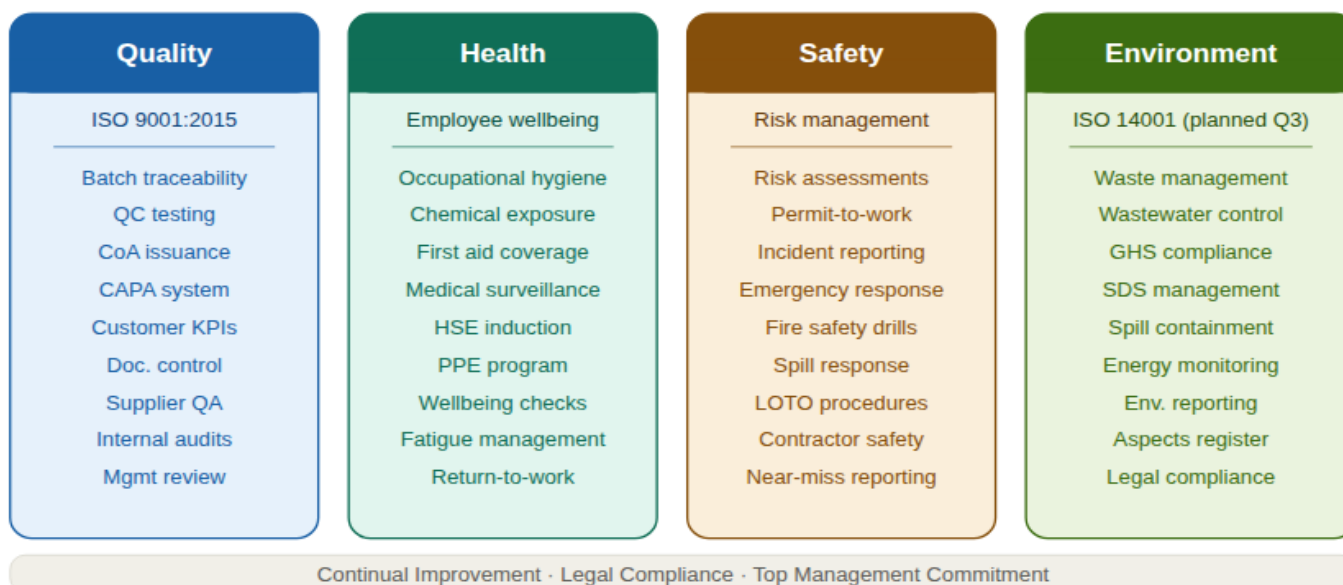
To deliver superior-quality chemical products and blending services in the Oil & Gas and Industrial Water Treatment sectors, while safeguarding the health and safety of our people, protecting the environment, and exceeding customer expectations through a culture of continuous improvement anchored in ISO 9001 principles.

Quality Management System

Our Quality Management System is being developed in alignment with ISO 9001:2015 requirements. Although certification is currently in progress, all operational processes are designed to meet the intent and requirements of this international standard from the outset.

QHSE Management Framework

Chemical Manufacturing · Oil Chemicals · Industrial Water Treatment



Quality Policy

Quality Policy Statement

We are committed to consistently providing chemical products and blending services that meet or exceed applicable customer requirements, industry specifications, and regulatory standards. We will establish measurable quality objectives, foster a culture of continual improvement, and ensure our Quality Management System remains effective and relevant across all operations.

HSE Policy

Health, Safety & Environment Policy Statement

We are committed to conducting all operations in a manner that protects the health and safety of our employees, contractors, and visitors, and minimizes our environmental impact. We will comply with all applicable legal and regulatory requirements, identify and manage HSE risks proactively, and continuously improve our HSE performance through education, accountability, and open reporting.

HSE at Zarar Chemicals



Environmental Management

We are committed to responsible environmental stewardship. ISO 14001:2015 certification is targeted for Q3 2026 as part of our Integrated Management System. Our operations are designed to comply with all applicable local and national environmental regulations from the outset.

- Wastewater from production/lab operations treated or disposed of through licensed facilities.
- Waste chemical segregation: hazardous vs. non-hazardous, with licensed disposal contractors.
- Energy and water consumption monitoring established as baseline for reduction targets.
- Packaging materials selection guided by minimizing environmental impact.
- All chemical products carry environmental hazard classification in SDS per GHS.
- Compliance register maintained for all applicable environmental regulations.

QUALITY ASSURANCE & COMPLIANCE

At Zarar Chemicals, quality is not an inspection step it is engineered into every stage of raw material procurement, synthesis, blending, and dispatch. The Company operates a structured, data-driven Quality Management System (QMS) aligned with international oilfield standards and applicable statutory requirements.

Certification Roadmap

Standard	Scope	Status
ISO 9001:2015	Quality Management System full QMS documentation, internal audit protocols, and CAPA workflows operational	Certified
ISO 14001:2015	Environmental Management environmental control framework established and enforced	Under Process
ISO 45001:2018	Occupational Health & Safety, hazard identification protocols and risk assessments active	Under Process
API Performance Guidelines	All products formulated and tested against API oilfield chemical performance methodologies	Ongoing compliance

ISO 9001:2015 Certificate



MARKET OPPORTUNITY & COMPETITIVE POSITIONING

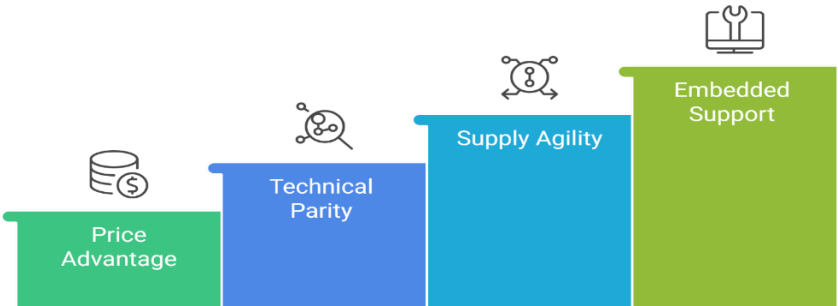
Pakistan's oil and gas industry represents a compelling and underserved market for domestically produced oilfield chemicals. With E&P activity concentrated across the Indus Basin, Kohat Plateau, Baluchistan Platform, and offshore Makram blocks, demand for high-performance oilfield chemistry continues to grow while the supply side remains heavily dependent on costly imports from international chemical majors.

Pakistan Oilfield Chemicals Market — Key Drivers

Growing Drilling Activity Pakistan's OGDCL, PPL, MOL Pakistan, and independent E&P operators continue active exploration and development drilling programs, sustaining consistent demand for drilling fluid additives, cementing systems, and stimulation chemicals.	Import Substitution Opportunity Pakistan currently imports the majority of its oilfield chemicals from global suppliers. Zarar Chemicals' locally manufactured portfolio delivers equivalent technical performance at materially lower landed cost, eliminating import duties and long lead times.
Regional Export Potential The Middle East, Central Asia, and South Asia represent high-growth adjacent markets where competitive, technically differentiated oilfield chemistry from Pakistan can command significant market share by 2027–2028.	Energy Security Mandate Pakistan's national energy policy actively encourages localization of upstream supply chains. Zarar Chemicals is aligned with this mandate, supporting government objectives to reduce the oilfield chemical import bill and develop domestic technical manufacturing capacity.

Competitive Positioning

Zarar Chemicals competes in a market historically dominated by multinational chemical suppliers (NALCO, BASF, AzkoNobel, AUBIN, ELKEM, chemical divisions) and regional trading companies that distribute imported products. Our differentiated positioning rests on four pillars:



PRODUCT TECHNOLOGY HIGHLIGHTS

At Zarar Chemicals, we don't just sell chemicals we deliver engineered solutions. Each product in our portfolio represents a body of technical knowledge: formulation chemistry, performance validation, field application protocols, and dosage optimization science. When you partner with Zarar Chemicals, you receive the product, the data, the expertise, and the engineering support to make it perform. We sell technology.

"WE DON'T SELL CHEMICALS. WE SELL WELLBORE PERFORMANCE"

Every product is backed by lab data, field protocols, dosage engineering, and on-site application support.

Flagship Product Highlights

ZM600 ShaleGUARD-AM DRILLING FLUIDS SHALE INHIBITION	Polyamine technology that bonds to clay surfaces at the molecular level stopping shale hydration before it starts. TECHNOLOGY Cation exchange mechanism: displaces Na⁺/K⁺ on smectite surfaces with high-affinity polyamine groups Dual-action: film-forming on wellbore wall + inhibiting osmotic water uptake into formation Stable to 150°C BHST; compatible with full WBM additive packages WHY IT MATTERS Eliminates bit balling, reduces wiper trips, and slashes NPT in reactive shale intervals Lowers equivalent fluid cost vs KCl systems while delivering superior inhibition performance
ZS102 STEELSAFE HT STIMULATION CORROSION INHIBITION	HTHP Quaternary Amine based blend — protecting tubulars at 175°C acid exposure conditions. TECHNOLOGY Synergistic blend: Quaternary Amine forms adsorption film; acetylenic alcohol reinforces under acid attack Validated per NACE TM0172 >90% corrosion inhibition efficiency at 150°C in 15% HCl Effective in HCl, HCl/HF blends, and spent acid systems; compatible with iron control agents WHY IT MATTERS Extends tubular and completion equipment life by years far outweighing chemical cost Enables high-rate acid stimulation in HPHT wells without steel corrosion risk

ZS289

VexisFLOW

STIMULATION & FRAC · FRICTION REDUCTION

ZwitterIonic Surfactant blend used as Viscoelastic surfactant
TECHNOLOGY

ZS289 – VexisFLOW is a high-performance zwitterionic surfactant engineered to function as a viscoelastic surfactant (VES) fluid system for oilfield stimulation and hydraulic fracturing operations. Designed to self-assemble into wormlike micelles under reservoir conditions, it delivers exceptional proppant transport, fluid viscosity, and clean breaking characteristics without the need for conventional polymer systems.

WHY IT MATTERS

In an industry where formation damage and fluid recovery directly impact well productivity, ZS289 – VexisFLOW's polymer-free, self-breaking formulation eliminates residual damage to the proppant pack, ensuring superior fracture conductivity, faster cleanup, and measurably better post-stimulation production performance.

ZC104

CemRETARD HT

WELL CEMENTING · RETARDATION

synthetic polymer blend engineered for precise thickening time control in HPHT wells.

TECHNOLOGY

Dual-component system: primary retarder + synergist for non-linear dose-response control

Tested and validated at BHCT up to 150°C; predictable time-temperature response curve

Compatible with all standard Portland cement classes; minimal effect on compressive strength

WHY IT MATTERS

Eliminates risk of flash set during long cement jobs in deep, hot wells

Gives cementing engineers a reliable, tune able retardation window to match complex job designs

MANUFACTURING FACILITIES & INFRASTRUCTURE

Zarar Chemicals operates a vertically integrated, multi-platform manufacturing infrastructure designed to deliver consistent, field-ready oilfield chemical solutions. Each facility is engineered for full batch traceability, environmental compliance, and rapid turnaround.

Powder Mixing & Blending Unit

A dedicated powder mixing facility engineered for high-precision blending of dry oilfield additives including viscosifiers, fluid loss control agents, Lost Circulation Materials (LCM), and cementing accelerators/retarders. Equipped with automated dosing systems, high-shear mixers, and dust-controlled environments, the unit delivers uniform particle distribution, consistent bulk density, and optimal moisture control across every batch.

In-House Synthesis: Corrosion Inhibitors

A fully integrated synthesis line producing proprietary, high-performance corrosion inhibitors tailored for aggressive downhole environments. Each formulation undergoes NACE-standardized testing for weight loss, polarization resistance, and thermal stability, protecting tubulars and completion equipment from CO₂, H₂S, and chloride-induced degradation.

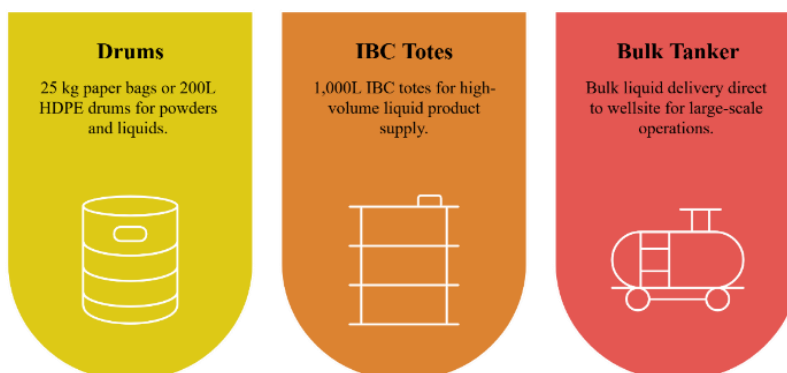
In-House Synthesis: H₂S Scavengers

A dedicated, closed-loop synthesis facility for high-efficiency H₂S scavengers employing optimized triazine and amine-based chemistries engineered for fast reaction kinetics, extended shelf stability, and broad fluid compatibility. Every batch is validated through laboratory titration and gas-evolution testing.

Liquid Blending & Formulation Facility

High-volume production capability for ready-to-use liquid formulations, including surfactants, crosslinkers, lubricants, and liquid cement dispersants. Flexible packaging drums, IBC totes, and bulk tankers supports just-in-time supply for all well operations.

Packaging & Logistics



LEADERSHIP & TECHNICAL EXPERTISE

The Zarar Chemicals team brings together decades of hands-on oilfield experience, advanced academic qualifications, and a shared commitment to delivering chemical solutions that perform under the most demanding industrial conditions.

 CEO	Mubashir Raza Chief Executive Officer & Founder 18+ Years ~ Oilfield Cementing & Stimulation Services Hands-on oilfield cementing and stimulation field operations across complex well environments Strategic leadership of chemical manufacturing programs and new product development initiatives Client relationship management across Pakistan's E&P sector and regional oil & gas markets Driving ISO 9001:2015 quality management implementation across all operational facilities
	Umer Farooq Senior R&D Chemist MPhil Chemistry · Applied Chemistry & Product Development Optimization of drilling fluid chemical formulations to reduce dosage costs and improve performance In-process quality control and batch consistency verification Customer process troubleshooting and innovation-driven problem resolution
	Muhammad Usman Process Engineer Chemical Engineering · Industrial Manufacturing & Process Optimization End-to-end oversight of manufacturing processes from raw material intake to finished product dispatch Process optimization to improve yield, consistency, and production throughput efficiency ISO 9001:2015 in-process quality checkpoint monitoring and compliance assurance
	Noor ul Saba HSE Consultant Health, Safety & Environment Management · Industrial HSE Compliance Development, implementation, and enforcement of HSE policies and workplace risk assessments Preparation and maintenance of Safety Data Sheets (SDS) for all manufactured products Employee HSE training programs, emergency response planning, and incident management

ZARAR CHEMICAL PRIVATE LIMITED

Quality • Reliability • Performance — Manufactured Under ISO 9001:2015 International Standards — 2026

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