expertise

Plant Maintenance & Turnaround

Inspiring Excellence

Introduction to Expertise

Expertise, based in Saudi Arabia, is a dynamic entity in the industrial services sector, recognized for its comprehensive range of services tailored to the evolving needs of the industrial landscape.

With a robust focus on operational efficiency, safety, and innovation, the company excels in providing specialized services across multiple key verticals:

Sectors we cater to:

- Industrial Services
- Equipment Rental
- Manufacturing Modular Buildings
- Facility Management Services
- Civil Construction Services
- Trading of Industrial Materials

Headquarters

Jubail Industrial City, Saudi Arabia

Sectors we cater to:

- Petrochemicals
- Power Generation
- Oil & Gas
- Agri Nutrients
- Cement
- Water Treatment Plant
- Steel
- Construction
- Manufacturing


WAAD AL SHAMAL
NEOM
TURAIF
KHAFJI
TABUK
JUBAIL
DAMMAM
MADINAH
YANBU
RIYADH
SHAYBAH
MAKKAH
JEDDAH
AL SHUQAIQ
JIZAN
Our Headquarters
Our site offices
Our branch offices

Quality Certifications

ISO 9001:2015
Quality Management Systems

ISO 14001:2015
Environmental Management Systems

ISO 45001:2018
Occupational Health and Safety Management Systems

ISO 22000:2018
Food Safety Management System

ISO 50001:2018
Energy Management Systems

ISO 41001:2018
Facility Management-
Management Systems

U Stamp
The American Society of
Mechanical Engineers

ISO 55001:2014
Asset Management Systems

Associate Member
Lifting Equipment
Engineers Association

R Stamp
The American Society of Me-
chanical Engineers

Full Membership
Operator-IRATA
International

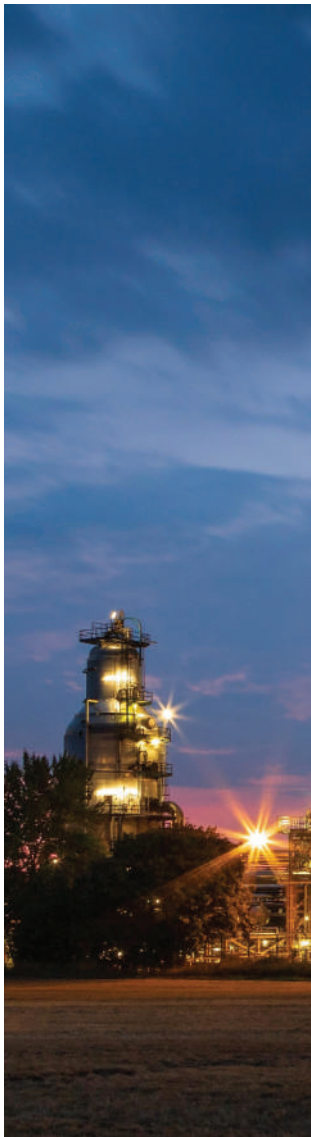
S Stamp
The American Society of Me-
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A Stamp
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Plant Maintenance & Turnaround (PMTA)

Plant Maintenance and Turnaround	Heat Exchanger & Pressure Vessel Manufacturing
Mechanical Engineering	On-Site Machining
Chemical Cleaning	Catalyst Handling
Boiler Reformer & Furnace	Rigging & Lifting
Bolt Torquing & Tensioning	High Pressure Water Jetting
Leak Sealing	Manpower, Equipment Rental & Material Supply

Plant Maintenance & Turnaround (PMTA)



Turnaround and Shutdown Expertise:

- Full-scope management for turnarounds and shutdowns: planning, execution, pre-commissioning, and commissioning.
- Manpower, machinery, and material supply for complete project support.
- Maintenance, inspection, repair, and rectification of equipment: heaters, reactors, columns, vessels, tanks, exchangers, fin fans, valves, flares, and pipelines.
- Design, procurement, certification, and validation of all project components.
- Skilled team for associated services: scaffolding, blasting, painting, refractory work, insulation, lining, coating, and Non-Destructive Testing (NDT).
- Expertise in both static and rotary equipment maintenance, ensuring minimal downtime and peak performance.

Our Plant Maintenance and Turnaround (PMTA) delivers specialized services to minimize downtime and optimize plant productivity.



Plant Maintenance & Turnaround (PMTA)

Services Offered

- » Package Preparation and Scheduling
- » Mechanical Engineering & On-Site Machining
- » Aramco-certified riggers for manpower rental
- » Turnaround & Shutdown, Plant maintenance (SFC, MFC, LFC)
- » Chemical Cleaning, Decontamination, Pigging, &Preservation of pipelines.
- » Catalyst Handling, Unloading, Cleaning, M&I, Loading of all kind of Tubular Reactors/Reformers/ Multi & Single bed reactors.
- » Reformer, Boiler & Furnace, M&I, Refurbishment
- » Tank & Column Maintenance
- » Rigging & Lifting
- » Industrial Vacuuming
- » Bolt Torquing & Tensioning
- » High-Pressure Water Jetting

Support Services

- » Scaffolding, Insulation, Blasting & Painting, Refractory Painting, Fireproofing
- » Waste Management & Dewatering ServicesMachining
- » Flare & Chimney
- » Rope Access
- » Temporary Site Facilities (Turnaround Village Preparation, , IT set up, BRM Office, Ablution, Mosque etc.)
- » Overhead Crane
- » Valve Overhaul & Testing
- » Rotating Equipment
- » Electrical & Instrumentation
- » Scrap Handling
- » Demolition
- » Horizontal Directional Drilling
- » EPC, Electro-Mechanical and Civil Projects
- » Modular Building
- » Catering & Facility Management



Heat Exchanger and Pressure Vessel

We are leader in designing, manufacturing, and maintaining high-performance heat exchangers Plate heat exchangers and pressure vessels. Engineered for optimal efficiency and reliability, our process equipment ensures peak performance under demanding conditions, tailored to meet the unique requirements of various industries.

Services Offered

» **Custom Design and Engineering**

- Advanced simulation and modeling software used to meet ASME, API, and TEMA standards.
- Comprehensive conceptual design and detailed engineering services.
- Thermal and stress analysis performed using Finite Element Analysis (FEA).

» **Precision Manufacturing**

- 100,000 m² facility with 10,000 m² covered area.
- ASME (U, S, A, PP) and NBIC (R) certified.
- Machine shop & pre-fab bays.
- Sandblasting, painting & coating yard.
- Insulation & cladding workshop.

» **Maintenance and Retubing Services**

- Pneumatic & hydraulic tool-equipped.
- Services:

- Retubing heat exchangers & fin fan coolers.
- Plate-type exchanger & pressure vessel maintenance.

- Trusted by SABIC & ARAMCO JVs for long-term support.


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BundleTutor Mobil expertise

Mechanical Engineering

We specialize in the design, fabrication, and erection of pipelines and process equipment, delivering solutions for both brownfield upgrades and greenfield developments. Our expertise ensures seamless integration with existing facilities as well as efficient execution of new installations, tailored to meet project-specific requirements and industry standards.

Services Offered

» Pipeline Construction

- Expertise in bulk material procurement.
- Skilled in pipeline fabrication and erection.
- Experience in testing and commissioning.
- Proven performance across diverse project environments.

» Plant Turnaround

- Shutdown/turnaround support, trusted by SABIC & Aramco affiliates
- Piping & valve replacements (MOC)
- Equipment repairs: columns, exchangers, heaters, reactors, boilers, tanks, vessels

» Fabrication and Manufacturing

- ASME-certified facilities in Jubail & Yanbu.
- Piping, skid, tank & structure prefabrication.
- Plasma cutting, CNC & plate rolling services.

» Operation & Maintenance

- 150M+ man-hours with 2,500+ staff for long-term contracts and 450+ for emergency support.
- Services: tank, exchanger, skid maintenance, shutdown support, commissioning, in-plant projects.

» Shop & On-site Machining

- In-house and on-site machining services.
- Flange facing, cold cutting, beveling, and custom part machining.

» Welding & Material Qualifications

- Qualified in GTAW and SMAW welding.
- Skilled with carbon steel, stainless steel, duplex, aluminum, copper nickel, and nickel alloys.



Rigging & Lifting Services

We provide specialized rigging and hea vy lifting services across Saudi Arabia, prioritizing efficiency, precision, and, above all, safety. Using advanced 3D lifting plans and animations, our projects are meticulously planned to ensure seamless execution.

Services Offered

- Heavy lifting and transport solutions
- Bundle pulling and 24/7 rigging consultancy
- Onshore and offshore lifting for heavy equipment
- Advanced jacking and skidding
- Rigging tackle inspection and maintenance
- Construction and demolition in oil & gas sectors
- Aramco-certified riggers for manpower rental
- Critical lifting solutions for complex machinery
- 2D/3D rigging plans and third-party plan approvals


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Catalyst Handling Services

With a proven track record in catalyst handling services, we deliver tailored solutions that address the specific needs of diverse industries. Our expertise encompasses safe transportation, storage, loading, unloading, and disposal of catalysts, ensuring operational efficiency and compliance with industry standards. We prioritize safety and precision to support seamless catalyst management throughout the project lifecycle

Services Offered

» Catalyst Loading & Unloading

We handle single and multi-bed reactors under both inert and atmospheric conditions, utilizing specialized techniques like closed-loop nitrogen re-circulation for added safety.

» Dense Loading & Screening

Licensed technologies ensure precision in dense loading, while catalyst screening is conducted under normal and inert atmospheres to accommodate all catalyst types.

» Advanced Techniques

We utilize a range of proven loading and unloading methods, including sock, Unidense, template, inserts loading, vacuum, and withdraw nozzle unloading, and we partner with reputable technology providers like Petroval, Unidense, Edelhoff many more.

» Specialized Reactor Services

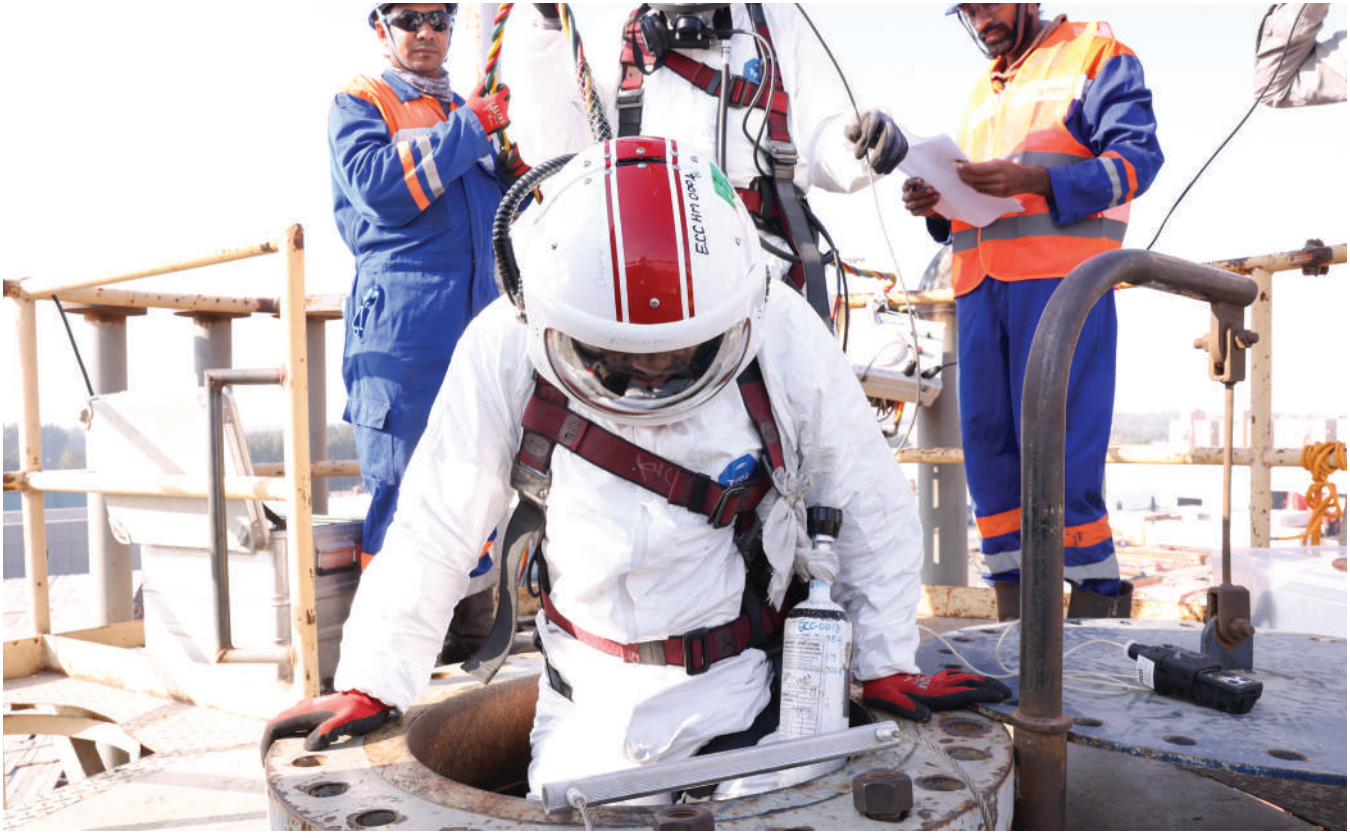
- Pre-commissioning: blinding, spading, bolt tensioning, vessel prep
- Inspection & cleaning: passivation, soda ash cleaning, nitrogen video inspection, internal repairs
- Catalyst handling: gravity/ vacuum unloading, template loading, advanced techniques

» Tubular & Reformer Services

- Tubular reactors: vacuum unloading / Fish taping, swab cleaning, grit blasting, DP testing.
- Primary reformers: vacuum unloading, Unidense cleaning (internal/external), tube inspection.
- Advanced tools: borescopes, laser technology for precise, safe operations.

» Industries & Reactor Types

- Extensive experience with: CCRs, Hydrocrackers, EO/EG, Primary Reformers. Ammonia/SAP converters, Catofin, HTS & LTS, HDS, Methanators
- Trusted for complex operations in refineries, fertilizer, and petrochemical plants






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Boiler & Reformer Revamp Services

Services Offered

» Comprehensive End-to-End Solutions for Boilers, Reformers, Furnaces, and Heaters

- End-to-end services for the oil & gas sector
- Repair, replacement & maintenance of boilers, reformers, furnaces, heaters, Urea reactors and many more.
- Inspection services for safety & performance
- Scaffolding, insulation & refractory solutions
- Advanced NDT services for accurate diagnostics
- Tube removal & installation with high precision
- Focus on safety, quality & seamless project execution



Chemical Cleaning Services

Chemical cleaning is essential for removing contaminants such as dirt, grease, scale, and corrosion from equipment across industries, including oil and gas, petrochemicals, and power generation.

Services Offered

» Boiler and Heat Exchanger Cleaning

- Pre-commissioning and maintenance cleaning
- Boiler dry layup for extended preservation

» Pipeline Services

- Chemical cleaning, decoking, and scraping (pigging)
- Smart pigging for advanced inspection and safety
- Pipeline preservation and decruding

» Vapor Phase Degassing and Decommissioning

Safe removal of volatile substances from vessels, towers, piping, column and exchangermany more.

» Air Cooled Exchanger Cleaning

Foam and dry powder cleaning methods for enhanced heat exchanger performance

» On-Stream and Pre-Commissioning Services

- Chemical injection, oil flushing, oxygen system preparation
- Furnace tube foam cleaning for operational efficiency

» Dry Ice blasting


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Bolt Torquing & Tensioning Services

We provide specialized flange management, bolting, and onsite machining solutions to ensure leak-free, safe, and efficient bolted-joint assemblies. Our services help prevent hazardous leaks, production delays, and unplanned shutdowns.

Services Offered

- Hydraulic, manual & pneumatic bolt torquing
- Bolt tensioning & nut splitting services
- Ensuring safe, high-performance bolted joints
- Precision techniques using advanced, industry-compliant equipment


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High-Pressure Water Jetting Services

Our high-pressure water jetting services offer powerful and versatile solutions for industrial cleaning, maintenance, and precision cutting. Utilizing pressures from 2,000 to 55,000 psi, our water-jetting technology is highly effective across various applications and industries.

Services Offered

» **Industrial Pipework & Equipment Cleaning**

Automated and manual options for heat exchanger bundles, including inside and outside cleaning, shell & component cleaning, and aqua milling for effective de-greasing, de-scaling, and debris removal.

» **Vessel, Column & Tank Cleaning**

Cost-effective, practical cleaning solutions for tanks and vessels.

» **Hydro Demolition**

Precision concrete removal at 15,000 psi for demolition without damage to rebar or other structures.

» **Steel & Material Cutting**

Ultra-high-pressure (UHP) jetting between 20,000 and 55,000 psi for cutting through steel, plastics, and other hard materials with accuracy.

» **Paint & Marking Removal, Surface Preparation**

High-pressure jetting for efficient removal of paint, road markings, and sticky residues, ideal for preparing surfaces.

» **Expertise in Water Jetting Solutions**

Our team provides specialized troubleshooting, overhauling, and refurbishment services using both manual and automated water jetting systems. We cover Low, High, and Ultra-High Pressure (LP, HP, UHP) jetting for top efficiency.







High-Pressure Water Jetting Services

Services Offered

» Automated Water Jetting

Advanced automated jetting systems are used for thorough cleaning of heat exchanger bundles and fin fans, removing stubborn deposits like coke and polymer.

» Equipment

NLB Hydrojetting Machine
Lancing & Triple Lance Tube Cleaners
Inside & Outside Bundle Cleaners (IBC, OBC)
Cold Cutting with UHP Water Jetting

» Core Services

Bundle Cleaning (inside/outside)
Aqua Milling
Surface & Paint Removal
Cold Cutting
Coke/Polymer Cutting



Leak Sealing Solutions

We offer reliable, specialized leak sealing services for refineries and petrochemical plants across Saudi Arabia and the Middle East. Certified to ISO 9001:2015 and OSHAS 18001 standards, we prioritize safety and quality, ensuring continuous, secure operations for our clients.

Services Offered

» **Online Leak Sealing:**

Seamlessly seal leaks in pipelines, valves, flanges, and pumps without interrupting operations, reducing downtime and boosting productivity.

» **Pipeline Leak Sealing & Wrapping**

Address active leaks and prevent future issues with high-durability wrapping materials designed for industrial environments.

» **Sealant Injection for Valves**

Prevent costly shutdowns by isolating and sealing leaks in valves with precise sealant injections.

» **Decades of Industry Expertise:**

Serving key players like Aramco, Maaden, and SABIC.

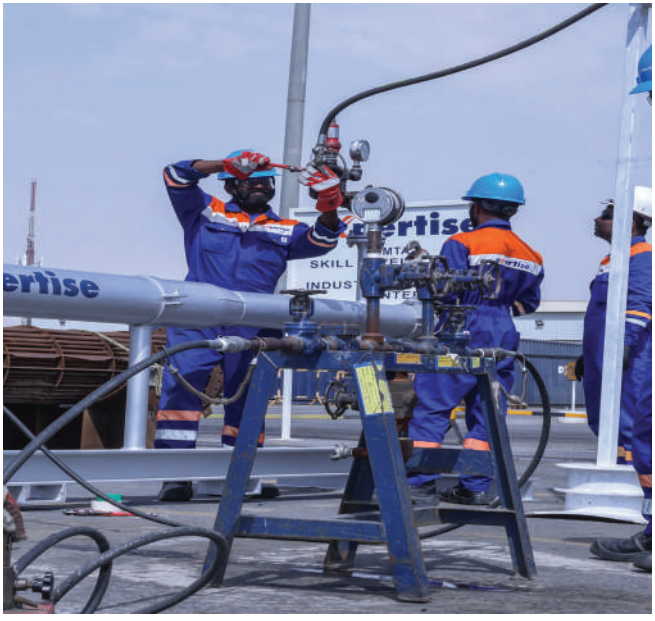
» **Proprietary Technology:**

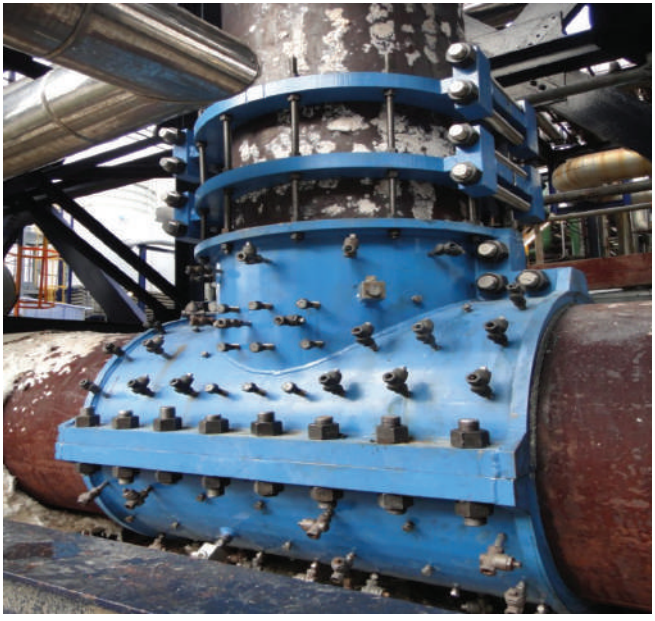
Leak-sealing compounds engineered in-house for extreme temperatures (-100°C to 850°C) and high pressures (up to 250 BAR).

» **24/7 Rapid Response:**

Supported by 10 depots and a trained technical team across Saudi Arabia.


expertise





Manpower & Equipment Rental Solutions

We provide dependable, cost-effective Technical & Non-Technical manpower, equipment rental & material supply services, supporting operational needs for major clients like ARAMCO, SABIC, and MAADEN, fostering strong, long-term partnerships.

Services Offered

» **Heavy & Light Equipment Rental**

» Hydro jetting machines (10k/20k/40k psi)
» Super suckers (13,000L)
» Forklifts, boom trucks, trailers
» Generators, tower lights, vehicles
» BRM, office & tool containers
» Specialty units: torquing pumps, steam boilers, AC units, welding & hydro test pumps
» Reliable manpower & equipment for project success

» **Material Supply**

Flexible material supply as per client specifications to meet project needs efficiently.


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Expertise Contracting Co.
expertise
MAN

Clients


ارامكو السعودية
Saudi Aramco
سابك
sabic
MAADEN
ياسرف
Yasref
ساتورب
satorp
بترورابغ
Petro Rabigh
NEOM نيوم
سبكيم
Sipchem
كيمانول
CHEMANOL
المؤسسة العامة لتحلية المياه المالحة
Saline Water Conversion Corporation
NATPET
Arabian Drilling
SAIPEM
SANAD
Saudi Aramco Nabors Drilling
SAMSUNG
JACOBS
JGC
الفنار
alfanar









































Our esteemed clientele includes over 500 companies across various sectors in Saudi Arabia, GCC countries, and Egypt. We are proud to serve some of the industry's leading names, contributing to their success through our reliable services.

Technical Alliance



CSNRI

Manifa
PETROLEUM SERVICES

UNIDENSE

PSS
CORPORATION

HPA
HYDROPROCESSING ASSOCIATES

Edelhoff

We collaborate with global technology leaders to deliver safe, efficient, and reliable plant maintenance and turnaround solutions. These partnerships enable us to minimize downtime, enhance performance, and ensure operational excellence.

QHSE Commitment

» Expertise is unwavering in its commitment to achieving and maintaining excellence in Quality, Health, Safety, Environment, and Loss Prevention. We believe that these pillars are essential for ensuring long-term business success and sustainability.

Our operations are conducted in a manner that prioritizes the quality of our services, the health and safety of our employees, contractors, customers, visitors, and the communities we serve, as well as the protection of the environment in which we operate.



We are commited to:

Delivering Consistent Quality Services:
Providing services that meet or exceed our customers' expectations and satisfaction in a safe and timely manner.

Ensuring Health and Safety:

» Preventing injuries and preserving the health of our employees, contractors, and all stakeholders by fostering a safe and healthy working environment.

Environmental Stewardship:
Preventing environmental pollution by optimizing energy use, reducing waste, and minimizing our carbon footprint. Embedding Safety in Daily Operations: Integrating safety and loss prevention into the daily routines of every employee, ensuring it meets our internal safety standards.

Legal and Statutory Compliance:
Complying with all applicable legal and statutory requirements related to Quality, Health, Safety, and Environment (QHSE) .

Cultivating a Culture of Excellence:
Developing a culture of continuous improvement by educating and empowering our stakeholders.

Continuous Improvement:
Regularly monitoring our objectives and targets to enhance our QHSE performance.

This commitment is communicated to all stakeholders and is subject to periodic review to ensure its ongoing suitability and sustainability.

EHS Policy Statement

Wherever we operate we will:

Develop, implement and maintain management systems for health, safety and environment risk that is consistent with national and internationally recognised legislation and standards that will enable us to:

» Identify, assess and manage our EHS risks pertaining to our operation including our highest risk applicable to office operation, such as ergonomics, dire and disposal management of office waste, travel and other related EHS risks to employees, contractors and the environment and strive to achieve leading industrial practise.

» Develop our people and provide resources to meet our specific objectives and targets.

» By setting risk based objectives and targets in addressing our EHS risk we shall meet and where appropriate, exceed applicable legal and other requirements in reducing environmental, health and safety incidents and preventing pollution.

» Care for the environment and value cultural heritage.

» Support fundamental human rights of employees, contractors and the communities in which we operate.

Seek opportunities to share our success by:

» Addressing our employees needs through the development and use of appropriate skills and technologies.
» Developing partnerships that focus on creating sustainable value for everyone.

At Expertise, we are committed to the health and safety, including the well-being, of all our employees. Health, safety and environment are integral to the way we do business. We commit ourselves to continual improvement in our performance, sufficient use of natural resources, with no harm to people and the environment.

Communicate with and engage employees, contractors, business partners, suppliers, customers, visitors and communities to:

- Build relationships based on h.onesty, openness, mutual trust and involvement.
- Share responsibility for meeting the requirements of this policy.

We will review our progress and policy to ensure this policy remains relevant to the needs of our employees. We will be successful when we achieve our targets towards our goal of a harm free environment and that the work that we do is valued by all parties.

Expertise
P.O. Box 10353, Jubail 31961, Support
Industrial Area, Area #1, St. #175, K.S.A

P : 0133408324
E : info@expertindus.com
W : expertindus.com