

# EMPOWERING YOUR BUSINESS THROUGH INSPECTION & TESTING SERVICES

NON-DESTRUCTIVE TESTING | MATERIAL TESTING  
METALLURGICAL STUDIES | HEAT TREATMENT  
ENGINEERING CONSULTING | WELDER QUALIFICATION



**Corporate  
Partner**



ISO 9001-2008 CERTIFIED



ISO 17025 ACCREDITED  
SAUDI ACCREDITATION COMMITTEE



## TRUST DELIVERED

TCR ARABIA WAS FOUNDED IN 2007 AS A JOINT VENTURE BETWEEN THE PIONEERING TCR ENGINEERING SERVICES (INDIA) AND GAS ARABIAN SERVICE (SAUDI ARABIA). ARMED WITH AN ISO 17025 ACCREDITATION, WE ARE AMONG THE FEW CHOSEN ORGANIZATIONS THAT HAVE BEEN APPROVED BY ALL MAJOR COMPANIES IN KSA. OUR BRANCH OFFICES IN KSA ARE IN JUBAIL AND YANBU ALONG WITH A STRONG PRESENCE IN KUWAIT & QATAR. OUR GROWING GLOBAL OPERATIONS IS SPREAD ACROSS MULTIPLE COUNTRIES INCLUDING INDIA, MALAYSIA, SOUTH AFRICA AND THE UNITED STATES.

“For over four decades, we have been a company focused on bringing to life great solutions that drive progress for our clients. We recognize the importance of nurturing relationships that reflect our unwavering ethics and mutual respect”

Abdulrahman K. Al-Dabal  
Chairman, TCR- ARABIA

42 YEARS OF EXPERIENCE | ISO 9001:2008 & ISO 17025  
CERTIFIED | APPROVED WITH ALL MAJOR CLIENTS IN  
KSA | SPECIALISTS IN ADVANCED NDT | PIONEERS IN  
METALLURGICAL SERVICES | WELDER QUALIFICATION  
SPECIALISTS | SUPPORTING 2000+ CLIENTS GLOBALLY





## ASSURING QUALITY

TCR ARABIA IS A GLOBAL COMPANY HELPING OUR CUSTOMERS BUSINESS BY LEVERAGING OUR INDUSTRY-WIDE EXPERIENCE, DEEP EXPERTISE AND A COMPREHENSIVE PORTFOLIO OF SERVICES.

HEADQUARTERED IN DAMMAM, WE ARE RECOGNIZED FOR OUR INNOVATIVE APPROACH TOWARDS DELIVERING BUSINESS VALUE. WE ARE A TRUSTED PARTNER FOR MANY ORGANIZATIONS IN THE FIELD OF SHUTDOWN MANAGEMENT SERVICES, INSPECTION MANPOWER DEPLOYMENT, TRAINING PROGRAMS – NDT & METALLURGY, MATERIAL TESTING, MICROBIOLOGY TESTING.



NDT Works at Massa Project in Haram, Mecca



## TESTING | INSPECTION | ADVISING

TCR's TEAM OF EXPERTS ARE COMMITTED TO DELIVER QUALITY SERVICES IN THE FIELD OF ADVANCED NDT, METALLURGY, SHUTDOWN MANAGEMENT SERVICES, INSPECTION MANPOWER DEPLOYMENT, TRAINING PROGRAMS – NDT & METALLURGY, MATERIAL TESTING, MICROBIOLOGY TESTING, WELDER QUALIFICATION, AND HEAT TREATMENT.



### ADVANCED NDT & METALLURGY – PERFECT COMBINATION TO RESOLVE PLANT RELIABILITY ISSUES

TCR's research center in Vadodara, India is a state of the art facility undertaking Residual Life Assessment (RLA), Fitness for Service (FFS), Failure Analysis and various Stress Analysis projects.

Our Advanced NDT & Metallurgy team supports these projects by carrying out several techniques on site such as ToFD, Phased Array, AUBT, Insitu Metallography and conventional NDT.

TCR's has end-to-end capability to run all the services as a single lead contractor. We have successfully delivered value for our clients through several projects globally and in KSA.

WE COMBINE INDUSTRY INSIGHTS WITH TECHNOLOGY KNOW-HOW, HELPING YOU UNLOCK DEXTERITY AND UNLEASH THE POTENTIAL OF YOUR BUSINESS. WE TRULY EMPOWER YOU THROUGH TRANSFORMATIVE SOLUTIONS SINCE 1973.



CORROSION MAPPING





Our rich experience and expertise across the materials testing value chain allows us to devise solutions that enhance customer satisfaction, increase operational efficiency, reduce risks and lower total cost of ownership

**1** TCR Arabia's success lies largely with diversified business experience featuring constant growth and profitability for our client companies

**2** Our unique out-sourcing support helps right from analysis of an innovative idea to its launch and business consolidation services in the market

**3** The business reliability towards our customers, suppliers and employees undergoes constant improvisation

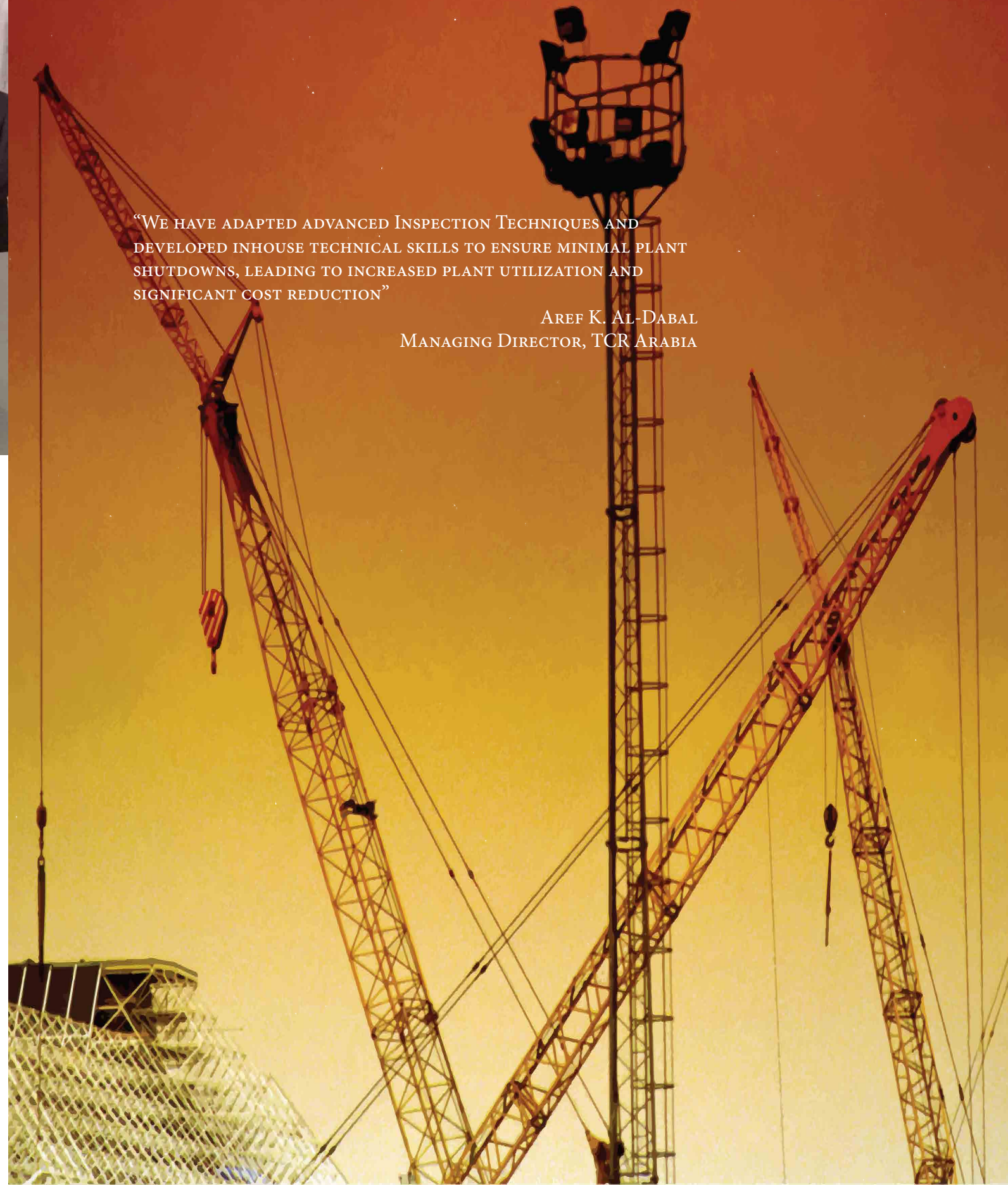
**4** The informal and creative human environment in which we operate constitutes a seed-bed for innovative solutions and related strategy thinking

**5** Our highly qualified & experienced staff is always at the service of our customer. We are truly multilingual and multicultural thus ensuring we meet your specific needs

**6** TCR Arabia's team strength includes Metallurgists, API 510 /570 /653 Inspectors, ASNT Level III Experts, BGas Paint Inspectors, Multi-Skilled NDT Level II Technicians, CSWIP/AWS Certified Welding Inspectors and QA/QC Inspectors and Plant Reliability Engineers

"We have adapted advanced inspection techniques and developed inhouse technical skills to ensure minimal plant shutdowns, leading to increased plant utilization and significant cost reduction"

AREF K. AL-DABAL  
MANAGING DIRECTOR, TCR ARABIA





## OUR CORE COMPETENCE

"We're in the business of building trust since 1973" Rohit Bafna, Director

Since 1973, TCR has been an innovation driven company that has served close to 2000 customers. We continue to leverage our core competencies in Non-Destructive testing, Material testing, Metallurgical studies, Heat treatment & Engineering consulting for select markets and customers.

TCR Arabia is an innovative and leading solution provider for our clients across several industries. Our offerings remain relevant and are completely aligned with instant resource mobilization requirements of our clients.

Comprehensive enterprise-wide QA and testing strategy, methodology, tools, and a dedicated organization of test professionals is what gives our client a distinct advantage. We adhere to strict guidelines and have well documented internal work procedures

Reduction in cost is one of the major impact of our highly effective services that employ proven methodologies and frameworks, linking deliverables & outputs with higher-order enterprise business values. Our internal quality policy ensures reliability and consistency of Lab and on-field inspection results in strict compliance with all the requirements of ISO 9001-2008 & 17025.

HARDNESS TESTING



MICROBIOLOGY LAB

ISO 17025 APPROVED LABORATORY OF TCR ARABIA PROVIDES QUALITY TESTING OF FOOD, WATER & BACTERIA TO ENSURE HYGIENIC AND HEALTHY ENVIRONMENT

HELIUM LEAK TEST

CONVENTIONAL NDT



## SOME OF TCR ARABIA'S ACCLAIMED SERVICES INCLUDE:

- MATERIALS TESTING LAB (DESTRUCTIVE TESTING)
- ROOT CAUSE FAILURE ANALYSIS, FFS AND RLA
- PLANT SHUTDOWN MANAGEMENT
- CONVENTIONAL NDT SERVICES
- ADVANCED NDT SERVICES
- HEAT TREATMENT
- PRODUCTS (NDT, METALLOGRAPHY, LIMS)
- TECHNICAL TRAINING COURSES
- WELDER QUALIFICATIONS
- MICROBIOLOGICAL TESTING OF FOOD & WATER.
- CONTRACT RESEARCH AND DEVELOPMENT
- ENGINEERING CONSULTING INCLUDING RISK BASED
- INSPECTION/FITNESS FOR SERVICE



## OUR CORE VALUES

They are the guiding principles that shape our culture and define the spirit of our company. It dictates how we work and conduct our business each and every day. This describes what is expected from all our employees - individually and as a team; at every level in every market.

**1 INTEGRITY:** At TCR Arabia, Integrity means being ethically unyielding and maintaining absolute honesty. We inspire trust by matching our actions to our words and take responsibility for our actions. We are committed to conducting business on a daily basis with fairness, integrity and respect for the regulations and our values.

**2 RESPECT:** We foster a trusting, open and inclusive environment and we treat each interaction in a manner that is reflective of our values. We believe that respect builds trust and promotes collaboration. We treat our people and places around us with the greatest degree of care.

**3 PERFORMANCE EXCELLENCE:** TCR Arabia is united by a strong set of values that is focused on client impact. Our work is founded on a rigorous understanding of every client's business context, sector dynamics, and the macroeconomic environment. We have evolved into a trusted transformation partner that is focused on bringing to life solutions that drives progress for our clients.

**4 ACCOUNTABILITY:** We set high performance standards and are accountable for the quality of work delivered to our clients and the results we achieve as individuals, as team members and as a company. We deliver on our commitments — to our clients, stakeholders, our partners, and one another.





NDT WORKS AT MASSA  
PROJECT IN HARAM,  
MECCA

## OUR TALENT

**T**CR-Arabia attracts the best of industry talent due to its unique brand positioning and diverse service offerings across global clients making all our engagements challenging and exciting. We firmly believe that the quality and commitment of our employees is a major reason for our growth and success.

**1** TCR-Arabia's success has always been in keeping things simple. The company hires exceptional people, puts them in an environment where they can flourish and challenges them to their fullest potential

**2** Ethics, excellence & commitment are issues that are sacrosanct to TCR-Arabia and we ensure our talent have proven themselves in all these aspects.

**3** With a very well-managed and lowest attrition rate in the industry, TCR-Arabia has proven itself as a top-class equal opportunity employer.

**4** The work environment at TCR-Arabia is a clear indication of the professional approach, dedication, team spirit, and intense motivation, enabling us to repeatedly demonstrate our ability to execute global projects comfortably

## TESTING LABORATORY





## OUR SPECTRUM OF SERVICES

### MATERIALS TESTING LAB

Tensile Testing  
Bend Testing  
Hardness Testing  
Impact Testing  
Welder Qualification  
Chemical Analysis Spectrometer  
Intergranular Corrosion Tests  
Salt Spray  
Sour Gas Corrosion (HIC/SSC)

### METALLOGRAPHY

Micro and Macro Examination  
Microstructure Analysis (SEM/EDAX)

### CONTRACT R&D

Heat Treatment Studies  
2D to 3D Conversion  
Finite Element Modeling  
Computer Aided Engineering (CAE)  
Piping Stress Analysis  
Advise on Materials

### ENGINEERING CONSULTING

Risk Based Inspection  
Fitness For Service  
Damage Mechanism Study  
Third Party Inspection

### HEAT TREATMENT SERVICES

Post Weld Heat Treatment  
Oil Firing on Pressure Vessels

### ROOT CAUSE FAILURE ANAL. & RLA

Fatigue Failure  
Corrosion Related Failure  
Operations Failure  
Remaining Life Assessment  
RLA and Condition Assessment of Boilers

### PLANT SHUTDOWN MANAGEMENT

Manpower Supply & Reliability Engineers  
API 510 Pressure Vessel Inspectors  
API 570 Piping Inspectors  
API 653 Tank Inspectors  
ASNT Level III Experts  
BGas Paint Inspectors

Multi-Skilled NDT Level II Technicians  
CSWIP/AWS Certified Welding Inspectors  
QA/QC Inspectors and Engineers  
NACE Cathodic & Coating Inspectors

### CONVENTIONAL NDT SERVICES

Ultrasonic Flaw Examination  
Ultrasonic Thickness Measurement  
Magnetic Particle Testing  
Liquid Penetrant Testing  
Radiography Evaluation  
Ferrite Measurement  
Portable Hardness Measurement  
Paint and Coating Thickness  
Holiday Detection  
Positive Material Identification

### ADVANCED NDT SERVICES

Time of Flight Diffraction (ToFD)  
Phased Array  
In-Situ Metallography  
Eddy Current Testing  
Acoustic Eye Tube Inspection\*  
Automated Reformer Tube Inspection System\*  
Corrosion Mapping  
Helium Leak Testing  
Thermography  
Internal Rotary Tube Inspection (IRIS)\*  
Alternating Current Field Measurement (ACFM)\*  
Long Range Ultrasonic Testing (LRUT)\*  
Robotic Crawler Video Inspection\*  
OTIS - In Service Robotic Tank Inspection\*  
HD 200 - In Service Robotic Tank Cleaning\*  
Close Interval Potential Survey (CIPS)\*  
Direct Current Voltage Gradient Survey (DCVG)\*

### TECHNICAL TRAINING COURSES

Mechanical Metallurgy Laboratory – Level I and II  
Microstructure Characterization  
Metallurgy for Plant Executives and NDT Inspectors  
Metallurgy for Non Metallurgists  
Understanding Corrosion Damage Mechanisms  
Sour Gas Corrosion Testing – Level I and II  
Fitness for Service Assessment Training  
Understanding API 571 damage Mechanisms  
Implementing RBI best practices in Plants

### TECHNICAL TRAINING COURSES (CONT.)

Failure and Root Cause Analysis : Guide  
Introduction to NDT for Plant Executives  
Ultrasonic Testing – Level I and II  
Magnetic Particle Testing – Level I and II  
Dye Penetrant Testing – Level I and II  
Eddy Current Testing – Level I and II  
Radiography Testing – Level II  
Visual Testing – Level II  
Thermography – Level I

### MICROBIOLOGY

Microbial Quality Determination.  
Pathogen Determination & Identification.  
Shelf Life Determination.  
Water Testing.  
Food microbiology testing.  
Soil microbiology testing.  
Legionella and SRB Testing.  
Environmental Hygiene Monitoring.  
Food born illness investigation  
Gas Tungsten Arc Welding for Qualified Welder  
Shield Metal Arc Welding for Qualified Welder

### INSPECTION AND TESTING PRODUCTS

Modsonic – UT Flaw Detectors, Thickness  
Oxford Instrument/Sanco - XRF and OES  
MiC – Image Analysis Software and LIMS  
TCR – HIC/SSC Lab Equipment and Glassware  
Time – Portable Hardness



“OUR INTEGRATED SERVICES HAVE SIGNIFICANTLY EVOLVED OVER THE LAST DECADE. WE HAVE ACCELERATED ASSURANCE FROM BUSINESS STRATEGY PREPARATION TO ON-SITE IMPLEMENTATION AND STRICT COMPLIANCE TO ALL SAFETY ISSUES. OUR ADVANCED OFFERINGS ARE DESIGNED TO FOCUS ON THE ENTERPRISE, AND ECOSYSTEM WITH A STRONG QUALITY FOCUS THAT COMPREHENSIVELY DELIVERS AGILITY, AVAILABILITY, & ACCURACY TO THE ECOSYSTEM”

ABDULRAHMAN K.AL-DABAL,  
CHAIRMAN, TCR- ARABIA



## KEY LOCATIONS

**GLOBAL EXPERIENCE, LOCAL IMPACT:** Our global client base demands a global presence. With our deep local expertise and market knowledge, we are able to understand the heart and soul of our clients' businesses.



## KEY CLIENTS ACROSS GEOGRAPHIES

**FOCUSSED ON WORKING WITH THE BEST**

TCR HAS SO FAR WORKED WITH MORE THAN 2000+ QUALITY DRIVEN CLIENTS (FROM ALL OVER THE WORLD) INCLUDING REPUTED MULTI-NATIONAL COMPANIES SUCH AS RELIANCE, CATERPILLAR, HALLIBURTON, CHEVRON, ONGC, L&T, EQUATE, PETRONAS, KUWAIT OIL COMPANY, HYUNDAI, WEATHERFORD, GE AND MANY OTHERS. TCR'S INTERNATIONAL NETWORK BRINGS AN UNIQUE PERSPECTIVE TO ALL ITS BUSINESS ENGAGEMENTS.







## **TCR ARABIA COMPANY LTD.**

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