

# PTIS

*The Strongest Link*



[enquiry@premiertubular.com](mailto:enquiry@premiertubular.com)

**Office Addresses:**

**Karachi**

58/U, Block #6 P.E.C.H.S, Karachi, Pakistan  
Tel # +92-21-34533739-34559070  
Fax#: +92-21-34312712  
Email: [Karachi@premiertubular.com](mailto:Karachi@premiertubular.com)

**Islamabad**

House No 504, Street no 47, G-10/4, Islamabad Pakistan  
Tel # : +92-51-2302572-2302581  
Fax#: +92-51-2350483  
Email: [Islamabad@premiertubular.com](mailto:Islamabad@premiertubular.com)

**Libya**

Wosayah Bdeeri, Bin Asashour, Tripoli, Libya  
Tel#: +218 213610042  
Fax#: +218-213610623  
Email: [Libya@premiertubular.com](mailto:Libya@premiertubular.com)

**Iraq**

Villa No 240/10/179 Street Two Side Ankawa  
Tel #: +00964 7503309903-00964-771-5795951  
Email: [irq@premiertubular.com](mailto:irq@premiertubular.com)

**Oman**

National Oil Field Supply Co L.L.C, PO Box 2670  
Ruwi Postal Code 112, Sultanate of Oman  
Email: [NOSCO@omzest.com](mailto:NOSCO@omzest.com)  
Email: [oman@premiertubular.com](mailto:oman@premiertubular.com)

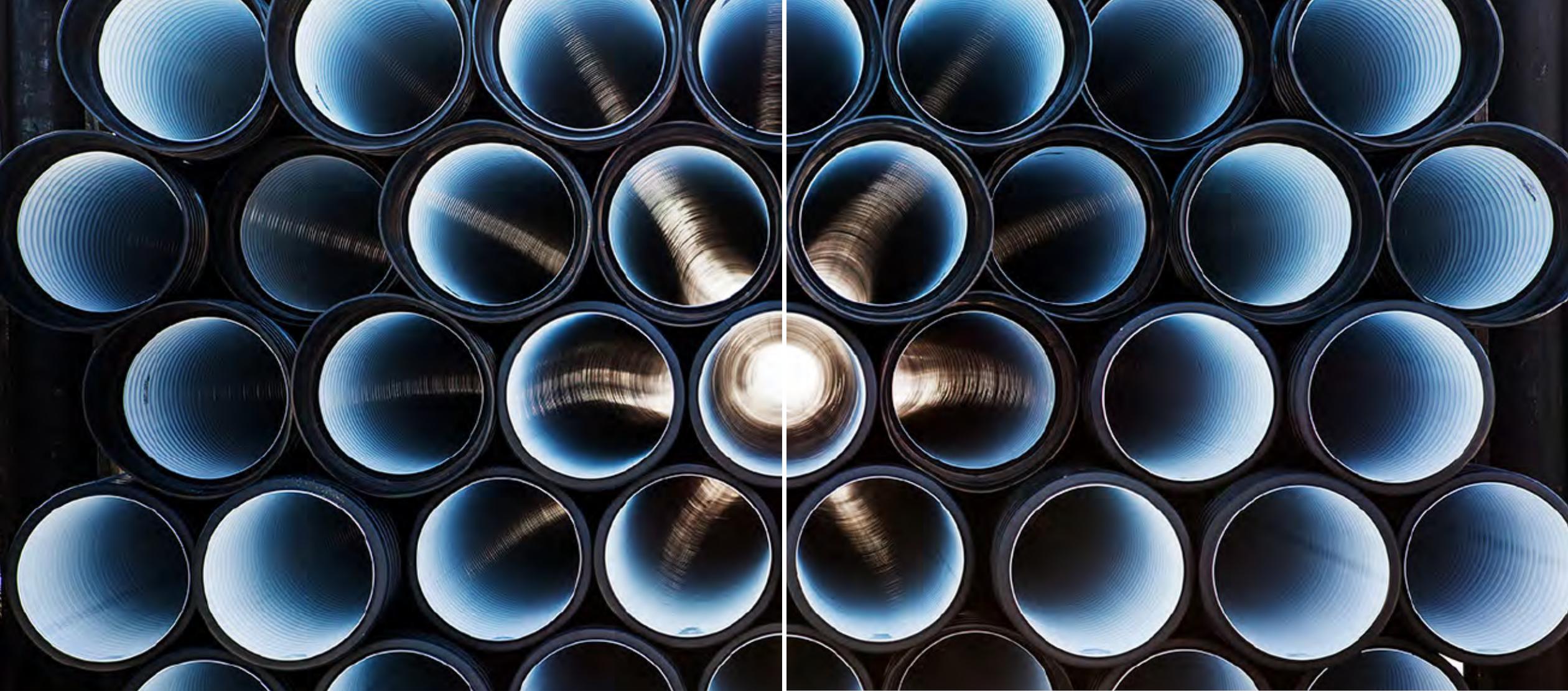
**UAE**

RAK Free Zone Ras Al Khaimah  
PO Box: 330889  
Tel: +971508402944

**Kuwait**

United Oil Projects (Agents)





## Introduction

Premier Tubular Inspection Services has been the hallmark of high-quality non-destructive testing within the Energy sector.

Started thirty years ago, PTIS has become the industry leader across regions. With its team of highly-trained and committed inspectors, PTIS is known in the industry for being pioneers in technology application.

PTIS prides itself in consistently achieving high levels of client satisfaction. Industry peers look up to PTIS as the trailblazer for introducing new techniques and setting quality benchmarks.



# Services Offered

Premier Tubular Services International provides high-grade non-destructive testing services to Energy sector clients across the globe.

## 1. Non-Destructive Testing

### Magnetic Particle Inspection:

**a**

Used to detect cracks and discontinuities within ferromagnetic materials (e.g. iron, nickel and cobalt) using a magnetic field and magnetic particles. This inspection technique is also suitably applied to sub-aquatic surfaces such as oil rig structures.

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### Dye Penetrant Testing:

**b**

A common technique, it is used to detect surface-breaking defects in non-porous surfaces (e.g. plastic, glass, rubber, metals). The technique employs 'capillary action' to draw pigmented liquid to surface defects, allowing for detection.

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### Ultrasonic Testing:

**c**

PTIS uses ultrasonic testing to detect surface breakages, dimensional measurement, and material characterization. Ultrasonic waves are propagated through solid material in a controlled manner using multiple functional units such as pulsar / receiver, transducer, and display devices. This is a popular NDT technique due to its flexibility of use.

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### **Eddy Current Testing:**

This particular method is employed using electromagnetic induction to detect sub-surface flaws in conductive materials. The technique is principally applied to surface and tubing inspections, and secondarily applied to making electrical conductivity and coating thickness measurements.

### **Visual testing:**

A primary, and time-tested method of NDT, visual testing is applied with or without optical aids. Aids include magnifiers, microscopes, telescopes, and specialized devices such as boroscopes and fiber-optic devices. Experts at PTIS are trained to detect surface flaws and diagnose incongruence using detailed visual inspection.

### **Hardness Testing:**

Multiple methods are employed to test substance hardness. Relative values from a variety of tests are compared to conclude 'hardness'. These values are achieved using rebound techniques, ultrasonic contact impedance (UCI), frequency testing of resonating rod with Vickers diamond tip. Hardness testers employed include bench-top Brinell and Rockwell testers. Hardness standards are set as per customer-definitions.

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## Tubular Inspection

### Drill Pipe

Drill inspection is executed as per customer-nominated standards, using case-appropriate techniques. Electromagnetic inspection (EMI) units are utilized at intervals guided by drilling conditions and past failure experiences. A.C. Yoke magnetic flow technique is used for most inspections, while sandblasting units are employed to prepare inspection surfaces.

### Bottom Hole Assembly

A well-maintained bottom-hole assembly supports a high drilling performance. PTIS conducts BHA inspections as per API RP7, DS1, NS2, or other standards as nominated by the commissioning clients.

### Tubing / Casing

From a visual inspection of the body (and thread) to identify external damage to full-length drifting of the tubular structures is performed by PTIS. Additionally, maintenance services, namely cleaning, coating, hardness-testing, thread-gauging, and ultrasonic wall-thickness measurement are conducted by PTIS technicians.

### Specialty Tools

PTIS provides technological support for directional drilling, casing drilling, and bore-hole enlargement. These are capably combined with the flexibility of seismic-guided drilling services to deliver efficiencies in the areas of utility-construction and slant drilling.



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### Handling & Hoisting Tools Inspection

From a visual inspection of the body (and thread) to identify external damage to full-length drifting of the tubular structures is performed by PTIS. Additionally, maintenance services, namely cleaning, coating, hardness-testing, thread-gauging, and ultrasonic wall-thickness measurement are conducted by PTIS technicians.

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### Calibration Services

High-precision calibration is offered as a premier service by PTIS. Equipment-specific standards are utilized to calibrate each device. Temperature (thermometer, RTD, thermocouple), pressure (absolute, gauge, differential, and electrical (multi-meter, oscilloscope, power supply, insulation tester, micro-Ohmmeter) calibrations are conducted with multiple techniques.



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### Rig Mast Inspection

Meticulous rig mast inspections are carried out as per API 4G recommended practices. Intense load bearing structures are accorded Category 3 & 4 inspections, conducted by certified inspectors. Rigorous inspections ensure staff safety and minimize downtime events, adding to the productivity of any functioning rig.

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### Lifting Gear Inspection

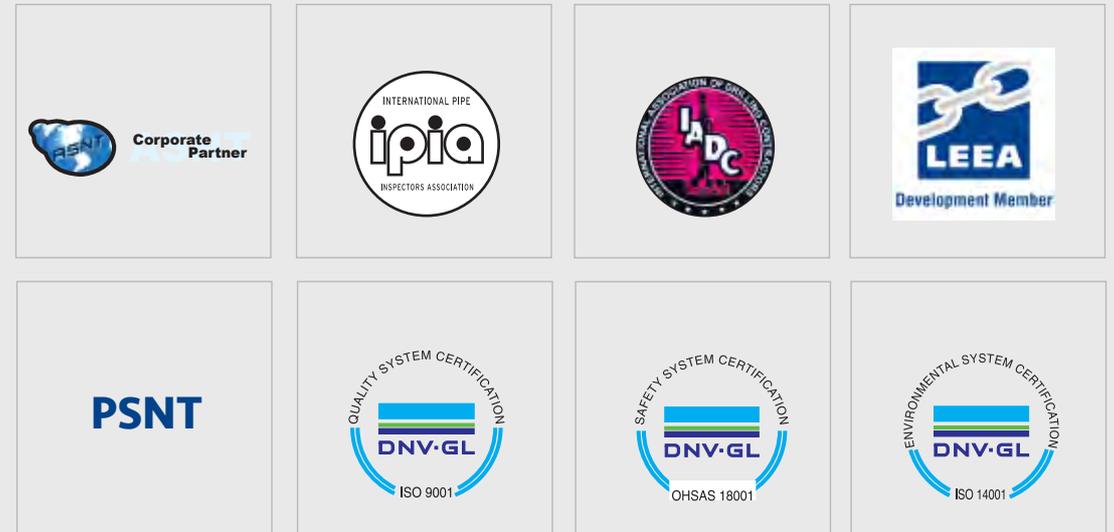
Regulated widely to minimize lifting gear injuries, thorough pre-use examinations are carried out. These include visual examinations and individual testing of critical equipment components prior to actual usage. All inspections are as per Lifting Operations and Lifting Equipment Regulations (LOLER) standards. Also PTIS has been an esteemed member of LEEA (Lifting Equipment Engineers Association) & recently has been made a development member.



## Premier Tubular Inspection Services (PTIS) has a stellar record in the industry.

Reputed as a leading Inspection Services company across the globe,  
PTIS is acclaimed by industry leaders.

As a global corporate citizen, PTIS is a part of multiple trade organizations including:



- The American Society of Non-Destructive Testing
- International Pipe Inspectors Association
- International Association of Drilling Contractors
- Lifting Equipment Engineers Association
- Pakistan Society for Non-Destructive Testing
- ISO 9001:2008 certified
- OHSAS 18001:2007 certified
- ISO 14001:2004 certified

# Testimonials



Pakistan Tubular Inspection Services have performed the above services to our complete satisfaction and we plan to continue their services in the future.

**Lukasz Kwiecinski**  
Oil and Gas Exploration Company Cracow Ltd



We intend to use their services in the future and would not hesitate in recommending their services to any potential customer.

**Syed Riffat Pasha**  
International Tubular Services Ltd.



The performance of the job undertaken by Pakistan Tubular Inspection Services (Pvt) Limited at Missa Keswal is considered quite satisfactory.

**Khalid Rahim**  
Oil & Gas Development Corporation



They have an extremely well-trained and cooperative field crew which is focused on delivering value to the customer and getting the job done.

**Rizwan Shaukat Khan**  
Petronas Carigali (Pakistan) Ltd.



We are satisfied with their quality of work and have no hesitation recommending them for tubular inspection job

**Muhammad Ali Mughal**  
Mari Gas Company Limited



Their staff is extremely cooperative with an eager to work and learn. Their expertises are always willing to accept new challenges and try out new technologies in the market.

**Shaid Majeed Sabir**  
Baker Hughes



Occidental is satisfied with the professional services rendered by Pakistan Tubular Inspection.

**Eric Robertson**  
Occidental of Pakistan, Inc.



We feel that Premier Tubular Inspection Services have resources in terms of equipment & quality inspection staff to execute tubular inspection related job.

**Mosharraf Hussain**  
ENI Pakistan Limited



We should like to point out once again that PTIS have a good reputation, and it is generally felt that this is one of the most important inspection companies in Pakistan.

**Sabah M. Mahmoud**  
Pride Forasol