



INDUSTRIAL INSPECTION
& ENGINEERING SERVICES



INDUSTRIAL INS
& ENGINEERING SERVICES

Industrial

INSPECTION & ENGINEERING

Services (NDT Specialist)

We are a customer-oriented and technology-focused company delivering high-quality services and products for the Oil & Gas sector, engineering systems, marine industry, and process industries globally. Adapting to rapidly evolving technology and infrastructure, we offer strategic advice, specialized training, and professional business solutions. We are a reliable partner for achieving business and technological goals through strategic governance and outcome-driven approaches aligned with our clients' objectives.



Core Competencies & Focus Areas

Our experienced team offers reliable, confidential, and cost-effective professional guidance across key inspection domains. Our primary service categories include:

Non-Destructive Testing (NDT):

- Ultrasonic Testing (UT)
- Magnetic Particle Testing (MPT)
- Liquid Penetrant Testing (LPT)
- Visual Testing / Inspection (VT)
- Radiographic Testing (RT)
- Vacuum Box Testing
- Baroscopic Inspection
- Holiday Testing
- Post Weld Heat Treatment (PWHT)

Third Party Inspection:

- Welding Inspection
- Rigging Gears & Equipment Inspection



Workforce Accreditation

Our inspection team comprises engineers, inspectors, and technicians certified by reputable institutions such as:



AWS

(American Welding Society)



TWI

(The Welding Institute)



ASNT

(American Society for Nondestructive Testing)

These accreditations ensure quality, reliability, and adherence to global standards.

NDT Inspection Services

We deliver top-tier NDT inspections in full compliance with international standards including ASME, API, ANSI, DIN, and ISO. Our inspectors utilize the most appropriate techniques and equipment for every task. Services are available both in our fully-equipped mobile labs and on-site using portable devices. We can act as an independent inspection service provider or fulfill third-party inspection requirements.

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Specialized Welding Inspection

We offer comprehensive solutions for inspecting various welding techniques:

- **TIG**
(Tungsten Inert Gas)
- **MIG**
(Metal Inert Gas)
- **SMAW**
(Shielded Metal Arc Welding)
- **SAW**
(Submerged Arc Welding)

Our services ensure welding integrity in all industrial applications.

Radiographic and Magnetic Testing

• Radiographic Testing (RT):

This method is excellent for detecting internal defects in materials of various densities, with minimal surface preparation. It helps identify:

- Voids, cracks, corrosion
- Thickness variations
- Subsurface and surface anomalies
- Provides permanent inspection records

• Magnetic Particle Testing (MPT):

Effective for detecting surface and near-surface flaws in ferrous materials. Commonly used on steel welds, bolts, propeller shafts, and aerospace components.

Additional Testing Methods



Liquid Penetrant Testing (LPT):

Used to identify surface defects on non-ferrous materials. It is a portable and highly efficient solution where MPT is not applicable.

Visual Testing (VT):

A simple and versatile method using direct or indirect viewing tools. Applicable for tanks, tubes, and vessels. It allows for dimension measurements and easy data storage via images.





Boroscopic Inspection:

Used for internal inspections of pipes, tubes, and engines using remote cameras to detect cross-section blockages and defects.

Holiday Testing, PWHT & Third-Party Services

- **Holiday Testing:**

Detects flaws such as pinholes or voids in protective coatings of pipelines and equipment by checking for circuit continuity.

- **Post Weld Heat Treatment (PWHT):**

A stress-relief process performed after welding to minimize residual thermal stresses and improve the mechanical properties of the steel.

- **Third Party Inspection Services:**

We conduct independent inspections for welding, fabrication, rigging gear, and hydro testing to ensure adherence to project specifications and international standards.



Sr. No	Client Name	Services Provided
01	3W System (Pvt) Ltd	LPT at Steel
02	Unique Metal Works Ltd	UT & LPT at Nozzles & Manhole of Bowzers
03	Unique Metal Works Ltd	UT & LPT at Nozzles & Manhole and MPI of Bowzers
04	Shenjiao Engineering (Pvt) Ltd	UT & LPT of Steel Beams & Column
05	ZKB Construction Company	UT, VT of Fabricated Pipeline
06	PDL (At Shell Oil Storage Tanks)	UT of Tank Shell
07	OGDCL Dakhni	UT, DPT & RT NGL Tank-03
08	Hi-Tek Manufacturing (Pvt) Ltd.	LPG Storage Tank RT
09	Biotroll (Pvt) Ltd. Faisalabad	UT of Boiler
10	Steel Axis (Pvt) Ltd.	LPG Storage Tank & Bowser RT
11	Unique Metal Engineering Services (Pvt) Ltd	Bowser & Tanks RT.
12	Mhaa Engineering	LPG Plant RT
13	Jauharabad Sugar Mill	Piping RT.
14	Trade Tacts International (Pvt) Ltd P.o No TT-GUJ-IL246	Coca Cola Plant RT
15	Trade Tacts International (Pvt) Ltd P.o No TT-GUJ-IL248	Coca Cola Plant UFD
16	Star Engineering Services	Searle V Solution Pvt Ltd Borescopy



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