We are one of the Qatar’s Leading Suppliers of Specialist Inspection Services & Solutions

TEAM + VISION = QUALITY

www.tis-qatar.com
Who We Are

TECHNICAL IMAGING SERVICES (TIS) is a company specialized in inspection consulting services for Non-Destructive Testing (NDT) and supplying of Automation systems with wealth of experience in providing our services across many applications in State of Qatar since 2011. TIS guarantees effective conditional monitoring, suitability and quality inspection to Commercial, Industrial & Residential sectors. TIS have specialists who are well experienced, trained and certified for accurate analysis.

We are proud to continue the long legacy of leadership and innovations we inherit as a member of Al Jabor Group Holdings, A well reputed and trusted Conglomerate with interests in various fields across the region over past 40 years. Cement Manufacturing, Grain Terminal, Construction & Project Management, Chemical Manufacturing, Real estate etc. are to name few. TIS is distinguished and well known for providing innovative and inventive services. Apart, we are widely recognized and respected for quality integrated services with technology driven resources.
The array of services includes:

- Thermography
- Gas Leakages Inspection (LDAR)
- Furnace Inspection
- Vibration Analysis Inspection
- Water/Fuel Leak Detection
- Concrete Inspection & Evaluation
- Utility Detection (Metallic & Non Metallic)
- Geological & Subsurface Investigation
- Cable Fault Locator
- Tank Inspection
- Supply of IR cameras & Automation System
- Supply of Pipe Leak Detection System
- Electro Resistivity Test (ERT)
- Seismic Refraction
**Thermography**

Infrared thermography is equipment or method, which detects infrared energy emitted from object, converts it to temperature, and displays image of temperature distribution. It’s widely used in most of all applications around the world.

**Electrical Thermography**

Infrared electrical inspections find hot spots caused by defects in connections and components. It is used to find areas of excess heat (caused by increased resistance) so that problems can be corrected before a component fails, causing damage to the component, creating safety hazards and productivity loss. Because increased heating is a sign of failure and infrared is the best diagnostic tool available for finding these hot connections in the early stages of degeneration.

**Mechanical Thermography**

Inspecting mechanical equipment with infrared thermography covers a wide variety of systems from motors, rotating equipment, steam traps, refractory, tank levels and many more. Most of these inspections de-emphasize taking absolute temperature measurements and instead concentrate on comparing overall thermal patterns to understand the asset’s health. Baseline inspections, where a thermographer captures an overall “thermal map or thermogram” of a particular equipment type, is one of the more valuable uses of the technology, as subsequent inspections are then compared to the original thermogram to detail for any changes that may have occurred over time.

**Building Thermography**

Infrared thermography is a modern non-destructive measuring method for the examination of renovated and non-renovated buildings. IR cameras provide a means for temperature measurement in building constructions from the inside as well as from the outside. Thus heat bridges can be detected. Inspections of exterior walls of buildings identify air leaks, insulation defects, voids within materials, moisture accumulation and potential mould/ fungi formation leading to indoor air quality problems. Roof inspections detect roof leaks though water accumulation within insulation layers.
Gas Leakages Inspection (LDAR)

Many industrial gases and chemical compounds are invisible to the naked eye. Optical imaging using thermal cameras for Gas Imaging, offer a number of benefits compared to traditional “sniffers” because they scan a broader area much more rapidly and in areas that are difficult to reach.

Infrared displays a leak as a plume of vapour in the infrared image. Once a leak is found, from a safe distance, we use our Toxic Vapour Analyser (TVA) to quantify the concentration.

Furnace Inspection

TIS offers furnace inspection using advanced infrared cameras, for example GF 309. The FLIR GF309 is designed for high temperature industrial furnace applications. These infrared cameras are ideal for monitoring all types of furnaces, heaters and boilers, particularly in the chemical, petrochemical and utility industries. Custom-built to see through flames, the FLIR GF309 also features a detachable heat shield designed to reflect heat away from the camera and camera operator, providing increased protection.

Vibration Analysis Inspection

Vibration analysis is used for equipment trouble shooting, predictive maintenance programs and acceptance testing on rotating machinery or isolation systems. Improper vibration levels are a source of equipment inefficiency and accelerated equipment wear and tear. Improper vibration can also contribute significantly to the sound level in a building. Vibration analysis is a great tool in detecting unbalance, misalignment, looseness, bearing failures and belt or sheave failures in equipment. TIS offers a combination of vibration inspection along with infrared thermography for the faster analysis.
**Water/Fuel Leak detection**

TIS provides an accurate pipe leak location service by ensuring that our highly trained and experienced engineers have the most advanced and diverse leak detection equipment available to them. Technical Imaging Services has taken its job a step further by implementing its own proprietary methods and technology to ensure the most non-invasive leak detection possible. When water pipes are old and in poor condition, leakage can cause problems such as flooding, loss of water pressure, asphalt deformation and many other issues.

**Concrete Scanning & Evaluation**

TIS specializes in the latest Radar technology, offering expert data interpretation and unmatched experience in the field of concrete scanning. Our advanced devices enables to locate post-tension cables and/or rebar within concrete prior to core drilling for electrical outfitting, plumbing, duct work, fire protection services, drain installation etc. Our latest software can generate a qualitative assessment of concrete structure by plotting the strength of reflection in its rebar. As we overlay the resulting data directly on a floor plan, we will be able to identify the exact location of bar corrosion and degradation.
Utility Detection (Metallic & Non-metallic)

We can locate the depth and position of metallic and non-metallic pipes in real time using the Utility Scan Radars. Ground Penetrating Radars (GPR) can enhance overall understanding of subsurface targets and obstructions. We can quickly identify tanks, pipes, underground storage tanks, associated piping and leech fields in septic areas up to 10m depth. Its a reliable, non-destructive method to locate subsurface targets prior to digging, trenching, conducting site assessments and mapping.

Geological & Subsurface Investigation

TIS offers an accurate, non-destructive solution to mapping the subsurface of the earth. With Ground Radars, it is simple to locate features of interest and subsurface layers in real time up to 100 feet or more. We can determine the depth of water table and to predict potential pathways for subsurface flow. Ground Radar systems provide a rapid, cost-effective method for collecting large amounts of bedrock depth information. Geologists from TIS examine complex subsurface problems, such as Stratigraphy. Additionally, thin layers and cross bedding are easily resolved.
Cable Fault Locator

TIS specialists can perform single or dual channel measurements on a wide range of metallic cables. Good and bad cores in multi core cables can be compared and just the difference displayed. Either dead or live cables to CATIII 300V phase to earth or 415V phase to phase can be tested. No blocking filter is required.

Tank Inspection

The range of NDT based atmospheric tank inspection technique which we offers are:

- Magnetic Particle Inspection (MPI)
- Dye Penetrate
- Magnetic Flux Leakage
- Pulsed Eddy Current
- Vacuum Box
- CCTV and Pneumatic Mast
- Ultrasonic and Remote Ultrasonic
**Supply of IR Cameras & Automation System**

TIS is an authorized dealer for FLIR optical gas imaging cameras (GF Series) and Automation Cameras (A Series) in the State of Qatar. We offers ITC certified trainings for your personnel in terms of technical and practical knowledge for the effective usage of those cameras.

FLIR automation series thermal imagers offer affordable, fully integrated thermal imaging and measurement solutions for applications such as process development and optimization, industrial process monitoring, product verification, quality assurance, safety applications and much more. An infrared camera can detect even small temperature differences in most operating conditions, including when there is smoke, fog or steam involved in the measurement situation.

**System Integration:** We are associated with one among the leading FLIR approved System Integrator having vast experience in the field of Industrial Automation known as IMC Service, Italy for configuring thermal cameras according to the clients requirements and up-to-date technology.

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**Supply of Pipe Leak Detection System**

TIS is an authorized seller for GUTERMANN products, who are global technology leader and innovator in intelligent water loss technologies. They cover the full range of conventional leak detection equipment and are the only provider of permanent, fully automatic, correlating network monitoring systems enabling utilities to pinpoint leaks within the shortest time. Also, TIS partners with established consultants across the world for the exploitation of efficient and advanced leak detection system across State of Qatar.
Electro Resistivity Test (ERT)
ERT is a geophysical technique in which DC electrical current is injected into the ground between one pair of electrodes and the voltage is measured between another pair.

A line (array) of electrodes is used and an instrument called a terrameter acts as a switch box and a measuring device, sending energy to different sets of electrodes through a set sequence.

This geophysical technique is performed for mapping of landfills, buried debris including drums and abandoned USTs, various subsurface structures, contamination plumes, bedrock features, and archaeological remains.

Seismic Refraction
Seismic refraction is a geophysical method used for investigating subsurface ground conditions utilising surface-sourced seismic waves. The acquired data is computer processed and interpreted to produce models of the seismic velocity and layer thickness of the subsurface ground structure.

Pulses of low frequency seismic energy are emitted by a seismic source such as a hammer-plate, weight drop or buffalo gun. The type of source is dependent on local ground conditions and required depth penetration. It’s used to measure bedrock depth & thickness, investigates pipeline routes, locates geological structures, evaluate sand & gravel deposits, defines ancient landfill sites etc.
Some of our Major Clients

- Qatargas
- Rasgas
- Dolphin Energy
- Q-Chem
- GE Oil & Gas
- QAFAC
- Hyder Consulting
- SGS
- Qatar Airways
- Commercial Bank of Qatar
- Aspire Logistics
- Alstom Grid
- Doha International Airport
- Sinohydro
- Applus Velosi
- Mercury Engineering
- Qatar Cool
- Butec
- HSP Enabling
- EMCO Qatar
- UGL Services
- Rumaillah FM

- Al Jabor Projects Co.
- Grand Hyatt Hotel
- Gulf Warehousing Company
- Hyatt Plaza Mall
- Al Asmakh Facilities
- EMCO Qatar
- Al Jabor Cements
- Sheraton Resort Doha
- Power Projects Qatar WLL
- Trags Engineering Co.
- CBM Qatar
- Powermech Engineering
- Carrefour
- Keppel Seghers
- Arabian MEP Contracting
- Lagoona Mall
- Grand Heritage Hotel
- Six Senses Spa
- Al Sharq Hotels
- Cape
- MZP
- Jersy Group WLL
- Waseef Facilities Management
- Qatar Distribution Company
- Qatar Electromechanical Group
- AKTOR-ADCC
- DTZ Qatar LLC
- Wyndham Grand Regency
- GE ATRC
- Abdulla Nass Group Company
- Al Mirqab FM
- Shk. Abdulla Bin Ali Al Thani
- Villaggio Mall
- Medco
- Al Madar
- Cunningham Lindsey Qatar
- Well Field Industrial
- Takyef
- Simplex Infrastructure Limited
- DTZ Qatar LLC
- Degremont SA Qatar
- HARODS
- Petroserv Limited
- Qatar Electromechanical Group
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TIS Location

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