



HANDASATI
TRADING & CONTRACTING CO.

Industrial Projections Contracting Co.

PROFILE

Our Services

- ❖ **Calibration, Inspection & Testing Service**
- ❖ **Cathodic Protection Rectifiers Transformers Installation**
- ❖ **EPC Contractor**
- ❖ **Trading**

Contact Us



ipsales@ipksa.net ; calibration@ipksa.net ; ipproject@ipksa.net ;



+966 59 794 4075 ; +966 59 774 5693; +966 59 760 8780

**IP ONE STOP SHOP SOLUTION FOR ALL YOUR
Calibration, Inspection and Testing Services.**



**Industrial Projections
Contracting Co.**



Calibration & Inspection

Electrical Calibration: *Multi meters, *Voltmeters, Ammeters, *Earth Testers / Low -Resistance, *Ohm meters, Testing/ Relay Test Set, *DC Power supplies, Frequency Meters, *Clamp meters, Insulation Testers, *High AC/DC Voltage, *Single Phase Watt meters, *Primary and Secondary injection test kits, *Relay testers.

Pressure Calibration: *Pressure /Vacuum gauges, *Manometers /Barometers, *Transmitters /Controllers, *Dead Weight Testers, *Pressure Calibrators, *Pressure Switches / Regulators, *Chart Recorders, *Pressure relief valves/ Safety valves, *High-and low-pressure pumps, *Hydro test, Manifolds.

Gas Line Testing: *Pipeline, Pressure Tank, *Pressure Vessel, *Manifold, *Air Tank, Air Header, *Valve Test, *Valve Seat Test.

Thermal Calibration: *Gauges/Indicators – Temperature gauges, *Probes (RTD, Thermocouples), *Transmitters/Controllers, *Digital / Glass Thermometers, *Temperature Calibrators / Electrode Ovens, *Temperature switches, *Chart Recorders, *Humidity Chambers, *Hygrometers, *Cold storage equipment's.

Linear Calibration: *Different types of Calipers, *Torque wrenches, Vernier Calipers, *Dial / Height/ Depth gauges, *Micrometers / Elcometer Thickness Gauges, *Meter scales / Tachometers.

Inspection: *Crane Load Test, *Caliper Survey, *MFL - Inline Inspection, Patent Brusless contactless.

Trading Servies

All Type Industrial Electrical items, Instrumentation, Mechanical fittings Fasteners & Safety Items.

Robotics & Artificial Intelligence

IP Offers Robot-based Automation Systems For Manufacturing Industries To Improve The Process Outputs. The Inspection Solutions Are Based On Robotic And Automation Applications Introducing Contemporary World-class Standards In Robotic Cells & Line Automation In A Wide Spectrum Of Fields.

EPC & Projects

Offshore testing services – Nitrogen purging / Crane repairing and reconditioning / Accumulator's inspection services. *Gas Turbines / Boilers OSBL Testing and Commissioning of I & Control Systems with the PLC & DCS. *Electrical Testing & Commissioning – LV/MV/HV, *Risk Assessment analysis/ Tank calibration Inspection, *Control Valves/ GOV/MOV/ Statuary & Rotatory Equipment's, *Pipeline Repair & Reconditioning Services, *E & I Construction (Installation / Testing / Purity test /Analysis test), *Buildings & Plants Maintenance, *Blasting & Coating. *Instrumentation Products, Electrical Products, Mechanical Products, Civil Products, Miscellaneous and Consumable items. * Breaker Testing of Low, Medium, Hight Volt Testing, *Substation Inspection, Testing & Commissioning.



**info@ipksa.net
www.ipksa.net**

Introduction:

Industrial Projection is an ISO 17025: 2017 laboratory and ISO 9001:2015 certified company with our headquarters in Al Khobar, Saudi Arabia .

Our aim is to provide reliable, responsive, and assured services and a wide range of products to the Oil & Gas, Petrochemical, Process, Power, and other industries in the Kingdom and the region. This is achieved with a team of highly motivated, dedicated and experienced professionals, with strong technical background and hands-on experience.

We handle the marketing and sales of various products and technologies from around the world. Our prestigious principals are well known in the industry for their unique characteristics and keeping the customer's satisfaction as their highest priority.

We strongly believe in supporting and encouraging our staff's professional development through regular in-house training as well as training at the facilities of our principals. This is to ensure that we are able to provide fast and assured services to our customers, which helps us maintain an edge over our competitors.

Mission & Vision:

Strategically offer the most trusted and reliable metrology and calibration services, providing to our customers a high quality and efficient solutions through continuous improvement. Our mission is to continuously improve customers' perception of our quality service to position ourselves as the leaders in the market.

To set benchmark of quality for our customer, people and competitors in the field of testing, Calibrations, inspections, certifications



Some of Our Parent company Customers:



Cathodic Protection Rectifiers Transformers Installation

Cathodic protection transformer rectifier units are used for Impressed Current Cathodic Protection (ICCP) Systems. These units are purpose built and generally feature remote control monitoring capabilities and current interrupters.

Prior to installation, check the connections (especially the electrical connections) on the rectifier unit to ensure that nothing has become loose during shipment. It is also recommended that if any scratches occur to the enclosure during installation, that these points be touched-up to prevent corrosion on the enclosure

Selecting the site of installation is a very important factor. The rectifier should be installed in a location that is easily accessible by company personnel for regular adjustment and maintenance. However, it should not be located in areas where



Cathodic Protection Rectifiers Transformers Installation

unauthorized personnel have easy access to the unit and may damage or vandalize it (i.e. residential areas, playgrounds, farm yards, etc.). The convenient access to AC power and the cathodic protection DC connections must also be considered when choosing the rectifier location.

Proper ventilation and cooling of the rectifier unit must be considered when choosing a suitable location. Air-cooled rectifiers are cooled by the natural convection of cool air drawn into the bottom of the rectifier enclosure, passing over the internal components, and the resultant warm air expelled from the top or sides of the enclosure. Oil-cooled rectifiers are cooled by the natural circulation of oil from the bottom to the top of the rectifier tank, over the internal components, and the resultant heat is radiated from the upper walls of the rectifier tank. As such, when choosing the installation site for the rectifier, adequate spacing should be allowed for around the sides of the rectifier unit. The rectifier should not be located near sources of heat such as exhaust vents, power generators,



Cathodic Protection Rectifiers Transformers Installation

etc. If possible, place the rectifier unit in an area where it will be shaded during the hottest part of the day. If the rectifier is to be installed in an area with a high ambient temperature and minimal natural shading, a protective sunshade is recommended.

The rectifier unit should be mounted on a secure surface. Ensure that the wall, pole, frame, or mounting pad is designed to hold the full weight of the rectifier unit.

If the rectifier is to be installed in an area subject to frequent lightning activity, upgraded, high-energy type surge arrestors are recommended.

Do not install other equipment on or inside the rectifier enclosure without prior consent from the factory. Unauthorized equipment installation will invalidate the rectifier guarantee as IRT has no control of the equipment added or the resultant detrimental affect to proper rectifier cooling / operation.



Cathodic Protection Rectifiers Transformers Installation

GENERAL COMPONENT DESCRIPTION

When operating any instrument, it is a good practice to become familiar with the key components and the general operation of that instrument. As such, the key components of a rectifier shall now be reviewed.

The AC Input Surge Arrestor is a device that protects the rectifier components from voltage surges that may occur across the AC input of the rectifier. It does this by providing a bypass circuit for the resultant current from these high voltage surges after a specific voltage threshold has been reached. Most surge arrestors are designed to handle a certain number or energy value of surges prior to failing.

The rectifier AC Input Circuit Breaker (CB1) is a fully magnetic type that serves three key functions. It is used as an "OFF-ON" switch for the rectifier, it provides "short circuit" protection, and, to a lesser degree, provides input overload protection.



Cathodic Protection Rectifiers Transformers Installation

The rectifier Main Transformer (T1) provides full electrical isolation between the utility AC power and the Cathodic Protection DC circuit. It also steps the voltage up or down as required for the DC circuit and, for tap type units, provides a means of output adjustment.



The rectifier AC Secondary Fuse is a semiconductor or fast-blow type that provides protection from not only short-circuits or overloads in the DC output circuit but also in the diode bridge circuit.



The rectifier Diode Bridge Assembly is made up of silicon diodes configured into a full-wave bridge configuration. The diodes are supplied with suitably sized heatsinks to ensure that the diodes do not exceed 100°C at full rated output. The diode bridge is the device that converts the AC secondary voltage of the transformer into DC voltage that can be used for Cathodic Protection.



Cathodic Protection Rectifiers Transformers Installation

A Varistor is supplied across the AC input to the diode bridge to provide additional protection from any voltage surges that may pass the main AC surge arrester or be developed by the main transformer. A second varistor may also be supplied across the DC output of the diode bridge at special request.



The Current Monitoring Shunt is a block style calibrated resistor with an accuracy of 0.25%. The DC current and voltage rating are stamped into the body of the shunt.



The rectifier Metering utilizes an analog, taut-band type movement that provides $\pm 2\%$ accuracy. The DC output amperage of the rectifier is monitored by a meter connection across the calibrated test screws of the above shunt. The DC output voltage of the rectifier is monitored by a meter connection across the DC output terminals of the rectifier.



Cathodic Protection Rectifiers Transformers Installation Photo Galary



Electrical Calibration:

- Multi meters
- Voltmeters
- Ammeters
- Earth Testers / Low Resistance
- Ohm meters
- Testing/ Relay Test Set
- DC Power supplies
- Frequency Meters
- Clamp meters
- Insulation Testers
- High AC/DC Voltage
- Single Phase Watt meters
- Primary and Secondary injection test kits
- Relay testers



Pressure

- Pressure /Vacuum gauges
- Manometers /Barometers
- Transmitters /Controllers
- Dead Weight Testers
- Pressure Calibrators
- Pressure Switches / Regulators
- Chart Recorders
- Pressure relief valves/ Safety valves
- High- and low-pressure pumps
- Hydro test
- Manifolds



Gas Line Pressure Testing:

- Pipeline
- Pressure Tank
- Pressure Vessel
- Manifold
- Air Tank
- Air Header
- Valve Test
- Valve Seat Test



Field Instrument Installation & testing Works

- Field Instrument Installation
- Local Panels/Gauge Boards
- All Types of Instrument Analyzers
- Various Instrument Sunshades
- Various Metering Skids Installation
- Air Volume Tanks



Pressure Lead Piping Installation & testing Works

- All Types of Instrument Tubing or Piping
- Steam Tracing
- Installation of All Types Instrument supports



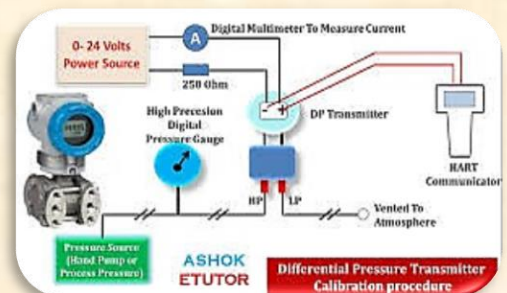
Airline Supply Installation & testing:

- Airline Supply Piping & Tubing Installation Works
- Installation of Various Manifolds & Accessories
- Hook-up & Accessories Installation



Thermal Lab:

- Gauges/Indicators – Temperature gauges
- Probes (RTD, Thermocouples)
- Transmitters/Controllers
- Digital / Glass Thermometers
- Temperature Calibrators / Electrode Ovens
- Temperature switches
- Chart Recorders
- Humidity Chambers
- Hygrometers
- Cold storage equipment's



Linear:

- Different types of Calipers
- Torque wrenches
- Vernier Calipers
- Dial / Height/ Depth gauges
- Micrometers / Elcometer Thickness Gauges
- Meter scales / Tachometer



On-site Calibration Capabilities: - ONSHORE / OFFSHORE

We offer on-site calibration services for the following range of equipment right at your facility:

- Measuring Tools and Gauge Calibration
- Surface Plates
- Grades AA, A, B, X, "o"
- Optical Comparators
- Microscopes
- CMMs (Coordinate Measuring Machines)
- Rockwell Hardness Testers
- Compression Testing Machines
- Up to 200,000 lbs
- Scales and Balances
- Above 1,000 lbs

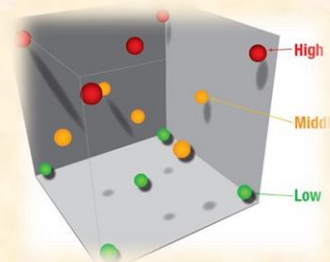


Pyrometer

- Temperature Controllers
- Ovens and Furnaces
 - Uniformity Surveys
 - System Accuracy Tests
- Recorders - Temperature, Digital, Char



Thermal Mapping.





INSPECTION SERVICES:

Eddy Current Inspection

More and more companies are opting to go in for Eddy current inspection due to inherent benefit of non-requirement of paint removal for inspection which is a drawback in the conventional NDT method of MPI. Eddy current eliminates the need of surface preparation and saves lot of time in paint removal and re- application of paint post inspection. Only at places indications received prove- up is done with MPI.

One of the major advantages of eddy current as an NDT tool is the variety of inspections and measurements that can be performed. In the proper circumstances, eddy currents can be used for:

- Crane Load testing / Inspection – API RP 2D

IP experienced technicians conduct the crane inspection in accordance with API RD 2D standards and provide recommendations for repair or further inspections. Static and Dynamic load testing are performed as per requirement and IP can mobilize calibrated load cells and water bags at short notice to carry out Crane load testing.



Lifting Gear Inspection

Can inspect, test, and certify all types of lifting appliances on location. We are a member of LEEA in the UK and follow the latest LOLER guidelines. These surveys provide a comprehensive register and database of all hoisting and lifting equipment's on a drilling rig and includes both fixed and loose lifting gears. All the equipment's are inspected to latest standards of LOLER / API / BS and manufacturers guidelines wherever applicable.



Rope Access

Rope access system (initially developed from the Mountaineering techniques) is a form of work positioning system which permits access to difficult to reach locations without use of Scaffolding, Cradles or Aerial platforms. Rope Access Technicians traverse on ropes to access work locations while suspended by their harness. This technique utilizes a backup fall arrest system which ensures redundancy. Rope access techniques have been used by the industry for more than three decades and has an excellent safety track record. Advantages:

A front runner in the Rope Access field offers complete Inspection, Maintenance and Repair services utilizing IRATA qualified technicians. IRATA safety procedures are being strictly adhered to. Compliance to ISO 22846-2:2012 EN standards. Sectors coverage:



ELECTRICAL & INSTRUMENTATION SKIDS INSTALLATION & MAINTENANCE WORKS

There are different types of skid-mounted process units.

We are providing E&I skid installations.

E&I installation capabilities to manufacture and meet our clients' requirements.

CONTROL AND EQUIPMENT INSTALLATION & MAINTENANCE WORKS

Survey and study the designed location of local instruments to be installed comparing the installation details and layout. Should there be discrepancies or obstructions be found in the construction drawings, site queries should be raised to EPC/COMPANY for further site instructions.

Markings to which elevations, mounting height and orientations should conform in the latest issued Approved for Construction drawings. IP model provided by EPC/COMPANY shall be also referred to decide the most suitable location.

Necessary fabricated supports, brackets and pipe stanchions for local instruments, switches, local controllers, indicators, and other miscellaneous instruments. Ensure that the orientation shall comply with the drawing layout considering access point, service, and tubing

FIELD INSTRUMENT INSTALLATION & MAINTENANCE WORKS

Field Instrument Installation.

- Local Panels/Gauge Boards.
- All Types of Instrument Analyzers.
- Various Instrument Sunshades.
- Various Metering Skids Installation.
- Air Volume Tanks.



PRESSURE LEAD PIPING, MOTOR TESTING PUMP ALIGNMET INSTALLATION & MAINTENANCE WORKS

All Types of Instrument Tubing or Piping.

Tubing has strong but relatively thinner walls; is easy to bend.

Tube fabrication is simple.

Tubing is stronger as no threads are required for connection.

No weakened sections from reduction of wall thickness by threading.



Gas Line Third Party Assessment Purity test/ Pressure Testing: Hospitals / R& D centers/ International labs/ Aramco special preservative centers/ ISO 17025 special Labs.

- Pressure Tank
- Pressure Vessel
- Manifold
- Air Tank
- Air Header
- Valve Test Pressure Tank
- Pressure Vessel
- Manifold
- Air Tank
- Air Header
- Valve Test



LIFTING UNIT INSPECTION FACILITY: ARAMCO MAINTENANCE INDUSTRIAL SUPPORTS

The construction and heavy industries require a lot of lifting; lifting materials, lifting other plant and equipment and moving any 'load' from point A to point B (which can be anything from the deepest tunnel to the tallest tower).

There are two main types of lifts on work sites:

- Manual lifts
- Lifting equipment lifts

Today, with the advances in lifting technology and the onus on human safety, more and more lifting jobs and activities rely on lifting equipment. So, what are the different types of lifting equipment which require a lifting equipment inspection procedure in the first place?

The most common types of lifting equipment include:

- **A hoist** - Lifts or lowers a load by means of a drum or lift-wheel wrapped in chain or ropes
- **A crane** - We all know what cranes are. Cranes come in many shapes and sizes including tower cranes, mobile cranes and crawler cranes
- **A power shovel** - A bucket-equipped machine which lifts and moves earth, rock, and other materials
- **Forklift** - Powered by a hydraulic lift system and forks to pick up pallets and other materials
- **Elevated work platform (EWP)** - Several lifting equipment and plant lift people to inaccessible or difficult to access points

All this lifting equipment are extremely important to many companies, site and projects, and each play their own party in enabling our projects, infrastructure, buildings and assets to continue getting more sophisticated - while keeping people safer.





Mobile Flow Meter Unit

Model: SPTMFM



Gang Leak Test Rig for
Valve Assembly

Model: SPTGLT



Leak Test Rig for Valve
Assembly (Heavy Valves)



Middle East 1st Gas Pump
Manufacturer

Hydraulic Presses



Adjustable H frame with
Pneumo-hydraulic Pump
Range 2 to 40 Tons

CONTROL AND EQUIPMENT INSTALLATION



Instrument Equipment Installation

Cable Trays and Trunks

Internal Cables Installation & Connections

All Type of Testing and Commissioning

FIELD INSTRUMENT INSTALLATION WORKS

- Field Instrument Installation.
- Local Panels/Gauge Boards.
- All Types of Instrument Analyzers.
- Various Instrument Sunshades



Various Metering Skids Installation.

Air Volume Tanks



PRESSURE LEAD PIPING INSTALLATION WORKS

All Types of Instrument Tubing or Piping.

Tubing has strong but relatively thinner walls; is easy to bend. Tube fabrication is simple. Tubing is stronger as no threads are required for connection. No weakened sections from reduction of wall thickness by threading.



ELECTRICAL & INSTRUMENTATION PANEL BOARDS



Panelboards for distribution of power to each utility.

A good electrical distribution network will have proper design.

Programmable logic controller (PLC) control panels.

Smart Panels are simple, Ethernet-connected solutions for managing power distribution.

Motor Operator Valve (MOV) Installation



MOV Capabilities include Site Survey & Evaluation, Field Repair & Retrofit, Shop Rebuild & Overhauls, Start-up & Commissioning, New Actuator Sizing & Selecting, New Assembly & Valve + Actuator Testing, Run-time Diagnostics & Torque Profiling.

Certified Technicians have been factory trained.

Established Preventative Maintenance (PM) program to ensure reliability for customer's MOV assets.

Control Valve Installation

At Valve serve overhaul and repair Control Valves of different makes and sizes.



Our team of experienced engineers and technicians offer a complete service for calibrating Control Valves in our facility.

They are also able to verify the original sizing and selection with the current flow data check its suitability.

Control Loops can be checked, debugged, analyzed and inspection plans recommended as per plant requirements.

IP Contracting Division offers and undertakes full range of construction and maintenance activities such as the following:

Oil and Gas Cross Country Pipeline

- Oil and Gas Truck Line
- Oil and Gas Flow Lines
- Water Injection Lines
- Water Transmission Lines
- Pump Stations
- Equipment Erection
- Plant Shutdown and maintenance
- Cathodic Protection
- Upgrade work on existing offshore platforms, boat landing platforms and



pipelines

- Overhead Power Lines
- Electrical and Instrumentation
- Scaffolding
- Insulation
- Sandblasting and Painting
- Structural Erection
- Plant Demolition
- Building Construction
- Perimeter Fencing
- Construction and Maintenance of Offshore Pipe Lines, Piers and Structures



INDUSTRIAL PROJECTIONS MAINTENANCE SERVICES

MANPOWER SUPPLY

We are a leading consultant, engaged in offering Labor Supply & skilled and unskilled workers to our clients in the recruitment. Our Labor Supply services always help in recruiting the cheap labors for the prescribed jobs. This helps in saving time, energy, and our client's money.

Manpower Supplying is the part of the Industrial Projections Contracting Est., our team is highly characterized by professionals. Industrial Projections Contracting Est. is one of the finest companies in the field of manpower supply in Saudi Arabia.

In this new era of Industrial Growth, all the industries must maintain a regular pace so that they can walk to foot to foot with the world. Manpower is the backbone of industries. It can enhance the name of the company or can hamper the name. Our company, Blue Triangle General Construction is best in services. Before we provide the required manpower or labor to our customer, we check the candidates on the following basis:

Exact Documentation
Training

Behavioral Interview
Reference Checking



Engineers

Mechanical Engineer	Civil Engineer	Electrical Engineer	Instrumentation Engineer
Piping Engineer	Pluming Engineer	Planning And Scheduling Eng	Estimation Engineer
Quality Control Engineer	Safety Engineer		

General Workforce

Light Driver	Heavy Driver	Mechanic	Crane Operator
Forklift Operator	Bob Cat Operator	Skilled Worker	Mechanical Helper

Elector Mechanical Work Force

Pipe Fabricator	Pipe Fitter	Millwright technician	Industrial Electrician
Tig welder	6G welder	3G welder	Insulator
Scaffolder			

Supervisors/ Inspectors

Quality Inspector	Safely Inspector Electrical Supervisors	Piping Supervisors	Mechanical Supervisors
Painting Supervisors	Material	Auto Cad Operator	Surveyor
Foremen			

Civil Workforce

Mason	Steel	Carpenter	Fixer	Plumber	Painter
-------	-------	-----------	-------	---------	---------

Administrational Personnel/ Others

Executive Secretary	Document Controller	Timekeeper	Fire Watch
Manhole Watch	Safety Officer		

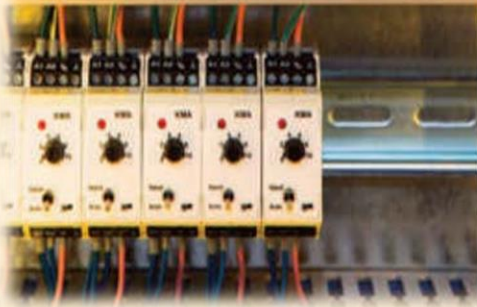
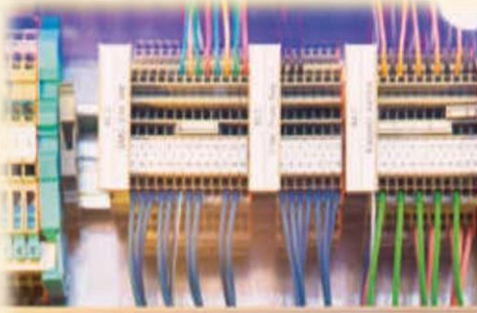
Structural	Telecom	QA/QC	DCS/PLC/SCADA Professionals
Draftsmen	Designers	PDS/PDMS	HVAC



PAINTINGS & COATINGS

Industrial Coatings	Protective Coatings	Heat Cured Coatings	Cold Cured Coatings
Solvents and Thinners	Specialized Coatings for Heat Exchangers and Vessels	Liquid Repellant Coatings	Storage Tank Coatings

INDUSTRIAL PROJECTIONS TRADING SERVICES



Trading

TIS has a trading division that procure and supply a wide range of original & genuine Industrial & Electromechanical materials especially for Oil & Gas, Petrochemical, Power, Water, and Manufacturing industries from spare parts to the complete products from various prominent manufacturing companies and OEM globally.

Some of the Industrial Products we handle:

- Electrical Parts
- Heavy Machineries and Equipment's Spare Parts
- Mechanical Equipment, Parts, and Spares
- Safety Products
- Electromechanical Parts
- Laboratory Equipment's and Supplies
- Pipes, Valves and Fittings
- All types of Industrial Hardware
- Instrumentation and Control Devices
- All Kind of Tools and Workshop Equipment's
- Control Systems and Cards
- Telecommunication Products
- Filtration Products
- Oil Field Parts



FLUKE



BOSCH

3M

NDT SERVICES

Several global leaders and Fortune 500 companies have chosen Industrial Projections as its preferred Advanced Inspection Service Partner. Industrial Projections has extensively invested in the best equipment and employs the latest



advanced techniques to ensure maximum production hours and minimum downtime.

All our solutions address client requirements with a strong focus on accuracy, on-time delivery, and safety.

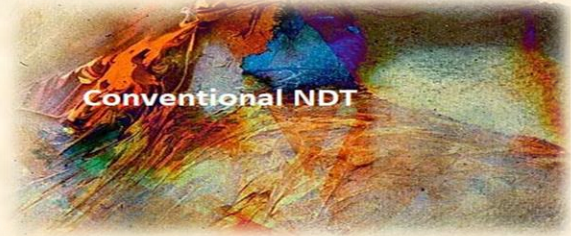
Conventional NDT

Advanced NDT

Post Weld Heat Treatment (PWHT)

Radiography Testing

Industrial Projections provides Radiography Testing services to inspect the welds of piping, pressure vessels and other process equipment on construction projects and plants.



Ultrasonic Testing

Industrial Projections provides ultrasonic shear wave inspection for welds inspection as well as Ultrasonic Longitudinal Wave Inspection to perform thickness measurement and corrosion scanning/mapping on the plant piping and pressure vessels as per the API 510 and API 570 etc.

Magnetic Particle Testing

Industrial Projections offers Magnetic Particle Testing services to detect surface and sub-surface imperfections in the welds and heat-affected zones of piping and process equipment. We also provide Magnetic Particle Testing on process equipment during plant shutdown to detect service cracks on the internal surface of vessels.

Penetrate Testing

We offer Penetrate Testing to detect surface and sub-surface imperfections in the welds and heat-affected zones of piping and process equipment.

Positive Material Identification

Industrial Projections provides Positive Material Identification (PMI) services to construction projects to identify or sort the different types of material.

With PMI, the composition of materials in alloys can be accurately determined. It is particularly useful for high quality materials such as stainless steel and high alloy metals. While engineers push the boundaries of material capacity to the limit in their design, assurance that the proper material is used becomes of utmost importance.


We offer PMI with the XRF technology and OES for lighter elements like carbon.


Post Weld Heat Treatment




In addition to NDT and inspection services, Industrial Projections provides Post-Weld Heat Treatment for plant piping after welding has been carried out to relieve residual stress that develops during the welding process. This also increases the toughness of the weld which avoids service cracks.

List of Completed Projects

	Project Name	HRDH-1261 TIE-IN to HRDH-949
	Owner	SAUDI ARAMCO
	Client	SAUDI ARABIAN KENTZ
	Scope of Work	Well Head, OH Power line

	Project Name	CONSTRUCTION OF SHYB-306
	Owner	SAUDI ARAMCO
	Client	SAUDI ARABIAN KENTZ
	Scope of Work	Tie-in, E&I, SWC, PDHMS, CP & OH

	Project Name	"HRD – 1222-8" FLOWLINE
	Owner	SAUDI ARAMCO
	Client	AL ROBAYA HOLDING CO.
	Scope of Work	Welding Rt.Coating, Lovering, Sand Bedding. Etc.



Project Name	HRDH -1835 TIE-IN TO HRDH-969
Owner	SAUDI ARAMCO
Client	NESMA & PARTNERS CONTRACTING
Scope of Work	Wellsite & Flow line





Project Name	HRDH -1137 TIE-IN TO HRDH-940
Owner	SAUDI ARAMCO
Client	NESMA & PARTNERS CONTRACTING
Scope of Work	Wellsite & Flow line




Project Name	SSSP-5 REFINED PRODCUCTS SUPPLY LINE
Owner	SAUDI ARAMCO
Client	SAUDI ARAMCO
Scope of Work	REFINED PRODCUCTS SUPPLY LINE

List of Ongoing Projects

	Project Name	MASTER GAS PHASE II PACKAGE
	Owner	SAUDI ARAMCO
	Client	SAUDI ARKAD
	Scope of Work	Stroke Test, Field Test, Functional Test, Calibration, Continuity Test, Loop test.

	Project Name	AUDITING & RISK ASSESSMENT of FUEL- HANDLING FACILITIES
	Owner	SAUDI CEMENT
	Client	SAUDI CEMENT
	Scope of Work	NDT Testing, Metallurgical Testing, etc.

	Project Name	SAUDI ARAMCO Research Center
	Owner	SAUDI ARAMCO
	Client	THABAT Contracting
	Scope of Work	Testing & Inspection of High-pressure SS pipe works

54" Values Testing



Level Transmitters Testing Radar / Ultrasonic



Mass Flow Test



Mass Flow Test



Mass Flow Test



Mass Flow Test



ILI Test Pressure Test



Purge test Nitrogen purging



Mov Test



Purge Test Nitrogen Purging



End of Document