

Proficient Solution Provider

IndoGulf

Inspection & Testing Services



INTRODUCTION

Indogulf Inspection & Testing Services, established by a group of professional experts in the field of Inspection & Testing, having facilities in Dubai, Abu Dhabi, Fujairah, a representative office in Singapore, and partnering associates around the Middle East and Asia-Pacific region intending to reach clients all over and around the GCC.

The services provided by Indogulf can be briefed as Non Destructive Testing, Destructive Testing (Mechanical & Metallurgical Services), Chemical Analysis & Corrosion Tests, Inspection services in welding, Painting, & Quality Assurance, Post Weld Heat Treatment services, and Automated Ultrasonic Testing (AUT) Services. These services can be benefited by clients belonging to various industrial sectors namely, Oil & Gas, Petrochemical, Pipeline, Fabrication, Marine applications, Construction etc.

Indogulf is committed to provide timely, efficient services with high regards to technical expertise, quality and compliance with Environmental, occupational health and safety management system by building and maintaining a customer oriented culture.

Indogulf keeps in pace with the latest developments in technology by evaluating and incorporating methods of testing to provide consistent and efficient services.

VISION / MISSION

VISION

To stay ahead of the competition by offering high quality services that provide strategic value to customer expectations & establish all over and around GCC as the most preferred laboratory in the field of inspection and testing.

“Customer satisfaction is what we aspire for.”



MISSION

To provide courteous, affordable, technical services which will meet or exceed our customer needs and expectation of price, quality and versatility of service with the support of full-fledged facility, well established quality systems, organized management team, motivated, well trained & skilled employees and accreditations from globally recognized certification bodies.

We will continually strive for excellence by adopting latest technologies in test & inspection methods and providing the employees with opportunities for learning and personal growth by encouraging them to be creative & innovative. INDOGULF is committed to adhere to the federal laws and decrees of local government with regard to health, safety & environmental issues to provide a safe working environment.

OUR QUALITY POLICY

INDOGULF is dedicated to :

- Provide timely, reliable, cost efficient quality testing and inspection services
- Fulfil the needs and expectations of customers
- Meet the applicable statutory and regulatory requirements with the help of well established quality management system committed to comply with ISO 9001:2008, ISO 17025, ISO 17020 & OHSAS 18001:2007

We focus on:

- Enhancing customer satisfaction through continual improvement of the effectiveness of the quality management system
- Strengthening the company with motivated employees, dedicated management team and good working environment

INDOGULF is committed to promote awareness of quality policy & quality objectives among all employees through training and awareness programmes and implement the established management system in all activities of the organization.

QUALITY MANAGEMENT SYSTEM

The integrated Quality management system of INDOGULF follows the guidelines and requirements of;

1. ISO 9001:2008 - Quality Management Systems
2. OHSAS 18001:2007 - Occupational Health & Safety Management Systems
3. ISO 17025 - General requirements for the competency of testing and calibration laboratories
4. ISO 17020 - Requirements for the operation of various types of bodies performing inspection

INDOGULF adhere to the rules established by the government and local authorities and work closely with industrial and professional bodies. INDOGULF has established custom-made policies, procedures, work instructions and programmes to ensure the immaculate implementation of the system in all areas of operation.



HEALTH, SAFETY & ENVIRONMENTAL POLICY

INDOGULF is committed in every respect to ensure that the applicable health, safety and environment hazards and risks that affect the employees and any other persons who may be concerned by the company's work operations, are controlled.

HSE is everyone's responsibility

We undertake to continually review and develop our HSE program with the aspiration of conducting our activities to protect the health and safety of all personnel involved including visitors and public.

SERVICES CAPABILITY

NON DESTRUCTIVE TESTING

INDOGULF provides basic NDT services and advanced inspection services in compliance with international standards such as AWS, ASME, API, ASTM, DIN, ISO, BS, EN, ANSI, NACE etc., in areas of structural steel works, Piping, Pressure vessels, Tanks, Raw materials, Various product forms etc. in upstream / downstream operations.



Conventional Techniques

- Ultrasonic Flaw Detection / Thickness gauging
- Magnetic Particle Inspection (Dry/Wet method, Visible & Fluorescent method)
- Liquid Penetrant Test (Visible & Fluorescent method)
- Radiographic Testing
- Visual Testing
- Leak Testing
- Eddy Current Testing
- Ferrite Measurement
- Coating Thickness Measurement
- Heat Treatment Services
- Boroscopy
- Vacuum Test
- Advanced NDT Techniques & more



DESTRUCTIVE TESTING

Destructive tests are carried out in the laboratory for specific application in close association with international, client specifications on materials & welded specimens.



INDOGULF is fully equipped to carry out the following Destructive Testing

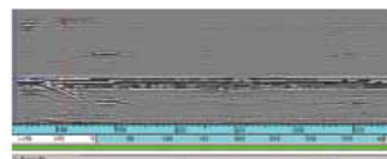
- Tensile Test at ambient temperatures and elevated temperatures (up to 700 °C)
- Bend / Re-bend Test
- Charpy Impact Test at cryogenic temperatures (to -196 °C)
- Load Test
- Fracture / Nick break Test
- Macro & Micro Examination
- Grain size measurement
- Hardness Tests - Vickers, Rockwell, & Brinell
- Metallographic Evaluation using Replica Technique (In-situ)
- Chemical Analysis- Using Spectrometer & Wet method
- Field Spectro Analyser (Portable)
- Positive Material Identification (PMI), Corrosion tests- HIC, SSCC, Pitting, Intergranular corrosion
- Failure Investigation

AUTOMATIC ULTRASONIC TESTING (AUT)

INDOGULF is fully equipped with Phased Array and TOFD UT inspection equipment with full accessories for inspection of Welds, Parent materials, Various product forms, Corrosion mapping, in the fabrication / In-service inspection of Pressure vessels, Piping, Tanks, Tubing, etc.

INDOGULF AUT professionals are trained and qualified to various International qualifications such as ASNT, PCN or CSWIP (ISO 9712) in their respective NDT methods.

INDOGULF also provides Consultancy and Technical services in the field of AUT.



ADVANTAGES OF AUTOMATED ULTRASONIC TESTING (AUT)

- A virtual replacement for Radiography, faster, Safer, and more environmentally Friendly.
- Because no Ionizing radiation is required, the inspection does not interfere with the production process. AUT inspections can therefore take place in parallel to production work.
- AUT offers a better inspection solution with lower reject rates than radiography.
- Faster inspections (about 100 mm/sec), Low operating costs, High reliability, and Repeatability.
- Inspection of wall thicknesses from 4 mm to 300 mm or more.
- Inspection can be done from outside of the component and from one side of the weld without requiring access from the inside.
- Many configurations and greater flexibility for inspection of complex geometries such as Flange to pipe joints, pipe to bends, T-joints, Tie-in joints, Transition joints etc.
- Better detection of most critical defects especially planar defects such as Cracks, Lack of Fusion (LOF), and Lack of Penetration (LOP) than any other techniques.
- Rapid, real time, and reliable data interpretation. Instant test results enable better process control of welding, giving lower rejects.
- Digitized archiving of weld scans, enables reviewing of results anytime Anywhere, by any other professional.
- Accurate flaw sizing in through wall direction, an essential component required for "Fitness for Purpose" acceptance criteria (not practical with Radiography).
- Acceptable in lieu of Radiography to various Codes/Standards such as ASME, ANSI, API, AWS, BS/EN, DIN, NEN, etc.
- The AUT technique is a fully computerized and automated system able to scan, store, High probability of detection (POD), and evaluate indications in terms of height, length, and position with a grade of accuracy never achieved by other ultrasonic techniques.

INSPECTION SERVICES

- INDOGULF employs various API, AWS, CSWIP, NACE/BGAS qualified Welding and Painting Inspection personnel to form a quality inspection team.
- The Pressure vessel and Tank inspectors have many years of experience in construction, fabrication, Inspection and erection of Pressure vessels / Tanks.
- The QA/QC Inspectors undertake second and Third party services for weld structures, pressure vessels, tanks, pipelines, painting inspection, vendor evaluation, integrity surveys etc.



The various inspection activities can be classified as; The inspection activities can be classified as below:

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| • Welding Inspection | • Storage Tank Inspection | • Quality Control |
| • Certification of welders & Procedures | • Vessel Inspection | • Material verification & Sorting |
| • Third party inspection | • Holiday Detection | |
| • Painting Inspection | • Quality Assurance | |

TRAINING & CONSULTANCY SERVICES

INDOGULF comprises of highly qualified, experienced, & motivated individuals in the field of Engineering Inspection that shares their experience to clients for consultancy services, including training.

The various Training & Consultancy activities can be classified as;

- | | |
|---|---|
| • Training of NDE personnel in various conventional and unconventional NDT techniques such as UT, MT, PT, RT, RTFI, PAUT, TOFD, Hardness, PMI, etc. | • Welding Engineering services. |
| • NDT Level II Training & Certification. | • Assist in developing 'Fitness-for-purpose' alternative flaw acceptance criteria for Pressure vessels, Piping, Pipelines, etc. |
| • NDT Level III services to various American, BS/EN, standards etc. in Pressure Vessel, Piping, Pipelines, Tanks, and Structural fabrications. | • Act as independent Level III Consultant / Auditor / Interpreter for advanced NDT techniques such as PAUT, TOFD, & Pipeline AUT (Zonal) methods. |
| • Consultancy in Preparation of NDT procedures and performing demonstration to Clients. | • Consultancy, Training, and Preparatory support for ISO 9001, 18001, 17020, 17025 certifications. |
| | • Providing preparatory course for the API series of Certification (API 510, 653, 570, 571, 577, 580, 936) |

STEPHEN S. RAJ
Vice Chairman & CEO

ASNT/ACCP NDT Level III-RT/UT/MT
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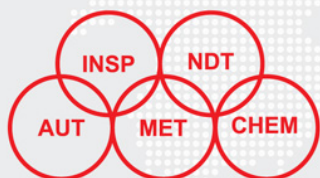
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