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## PRODUCT PROFILE



*Time is money...We count even seconds.*



IADC  
MEMBER



UAE | Qatar | Bahrain | Oman | Saudi Arabia | Kuwait | Azerbaijan | China | India | Singapore | Malaysia | USA

<u>Sr #</u>	<u>Description</u>
1	Rope Access Inspection Services
2	Rope Access Maintenance Services
3	Advanced NDT Services
4	Asset Integrity Inspection Services
5	Conventional NDT Services
6	Ultrasonic Thickness Gauging Services
7	Calibration Services
8	Predictive Maintenance Services
9	Lifting Inspection
10	QA/QC (TPI) Services
11	Mechanical & Metallurgical Testing Services
12	Integrity & Life Expectancy Survey
13	Marking Services
14	Corrosion Control Services

## Rope Access Inspection Services

- All Advanced and Conventional Non-Destructive inspections
- UTM surveys with Cyclops
- Baseline survey
- Risk based Inspection
- Structural integrity Surveys
- Structural surveys and condition monitoring
- Lifting surveys and Inspections
- Dropped Object Surveys (DROPS)
- Derrick Surveys (API-RP-4G Cat III)
- Alternate Current Field Measurement (ACFM) inspection
- Flare stack/ Boom Inspections
- Riser/Well Head inspections
- Structural Integrity Inspections
- Sheave Groove Inspection

## Rope Access Maintenance Services

- Installation/Maintenance in High Rise Buildings/Historic structures
  - Glass replacement
  - Leak testing
  - Gasket/pressure plate replacement
  - Lights/aircraft warning lights installation
  - Lightning protection system installation
  - Banner installation
  - Façade cleaning
- Corrosion control services.
  - Legs and derrick painting & color coding
  - Marine & Offshore unit hull structures and Living Quarters external surface preparation [power tooling (SSPC), hydro blasting & abrasive blasting] and painting
  - Anode installation/replacement
  - Maintenance of Silos/Storage Tanks
  - Marine growth removal
  - Derrick washing and cleaning
  - Derrick repair services
- Leg anode/Jetting line/leg ladder/aircraft warning light installation/replacement.
- Marine & Offshore unit Welding defect rectification
- Derrick flood light/warning light/CCTV system/electrical fittings – installation/replacement
- Cable installation/insulation services

## Advanced NDT Services

- Alternating Current Field Measurement (**ACFM**) – Topside & Subsea Inspection
- Tube Inspection Services (Heat Exchangers/Coolers/Boilers)
  - Eddy Current (**ET**)
  - Internal Rotary Inspection System (**IRIS**)
  - Remote Field Eddy Current Testing (**RFET**)
  - Magnetic Field Leak Testing (**MFL**)
  - Bore Scope Inspection Technique
- Plant Integrity Inspection
  - Magnetic Field Leak Testing (**MFL**)
  - Robotic Scorpion B scanning
  - Remote Motion Scanning (**RMS**) Technique
- Phased array Ultrasonic time of flight diffraction (TOFD)
- Automated and remote Ultrasonic testing

## Asset Integrity Inspection Services

- Risk based inspection and programming with Aries software
- Fitness for service analysis
- Turnaround Shutdown Inspection
- Pre-shutdown/Turnaround Evaluation
- Above ground storage tank inspection and inspection
  - In-service inspection
  - Out of service inspection
  - In-service robotic inspection
- Pressure vessel Inspection (API 510)
  - In-service inspection
  - Out of service inspection
- Piping inspection (API 570)
- New construction/Fabrication inspection supports
- In-plant repair/alteration plan and coordination
- Risk Based Inspection(RBI) on Process piping,HP lines etc. (Shutdown projects, oil rigs, offshore/onshore projects)
- Remaining life calculation of piping system
- Hull integrity calculation based on inspection reports
- Integrity management services in support of client

## Conventional NDT Services

- Digital Radiography (**CR & DR**)
- Radiography (Scar System, Gamma Ray, X-Ray & Crawler Technique)
- **UT, PT, VT,ET** & Visual inspections
- Magnetic Particle Testing (**MT**) (Wet, Dry & Fluorescent)
- Leak Test (**LT**)
- Demagnetization

- Positive Material Identification
- Hardness Testing
- Ferrite Testing
- Holiday/spark Testing
- Heat Treatment- Pre heating, Post Weld Heat Treatment (**PWHT**) & Stress Relieving
- **OCTG Inspection**
- Casing and Tubing Inspection
- Visual Thread Inspection
- Full Length Magnetic Particle Examination
- Special End Area Inspection
- Dimensional Visual Inspections
- EMI inspection
- Full length API drift
- BHA Tools
- Drill String
- Handling Equipment
- Structural NDT inspection, Masts & Substructures

## Ultrasonic Thickness Gauging Services

### Marine

- Hull UTM Survey - All ESP & Non ESP Vessels
- Condition Surveys
- CAP, CAS, URS, Intermediate, Special and Annual Surveys
- Class Entry /Renewal Surveys
- Steel Estimation, Preparation of Repair Plan, Dry Dock Specifications etc.
- Verification of Yard Repair Specification
- Pre purchase Hull Inspections
- Provision of Steel inspectors during docking period
- Provision of Structural inspectors during pre-docking/docking period.
- Voyage/Rafting Surveys – Sailing team for Pre-docking inspection during voyage
- Pit Mapping Surveys

### Offshore

- Condition Assessment Surveys - Structural & Coating
- Hull and Leg Inspections as per Class/Client Requirement
- Periodical Surveys of Offshore Units
- Steel Renewal Sequence Plan for Refurbishment/Repair Projects
- Steel Supervision during Refurbishment, Repairs and Conversions
- Periodical Corrosion Monitoring of Pipelines

## Calibration Services

- Pressure Gauges/Switches/ Transmitters
- Temperature Instruments
- Electrical Instruments
- Dimensional Instruments



- Mass & Force Instruments
- Pressure Relief valves overhauling and calibration.
- Air receivers/ Generators/ Air Compressors testing and certification
- Flow meters overhauling and calibration
- Pressure Testing (Hydro testing /Pneumatic Testing)

## Predictive maintenance Services

- **Condition Monitoring**
  - Infrared Thermographic Survey [IRT]
  - Ultraviolet Thermographic Survey [UVT]
  - Drone Thermographic Survey
  - Vibration Analysis, Study & Modeling
  - Torsional Vibration Analysis
  - Finite Element Analysis [FE]
  - Noise Survey, Mapping & Modeling
  - Light Survey
- **Environmental Engineering Survey**
  - Inventory of Hazardous Material [IHM]
  - Hazop Survey
  - Stack Emission Testing
  - Ambient Air Quality
  - Indoor Air Quality
  - Fugitive Gas emission
  - Volatile Organic Compound Emission
  - Water Analysis
  - HVAC Air Quality Test
- **Helideck Inspection**
  - Helideck Friction testing
  - Helideck Auditing & Certification
  - Helideck Survey & Certification
  - Helideck Light Survey

## Lifting Inspection

- LOLER inspection & certification
- Load test of fixed/loose lifting equipment or accessories
- Annual / Major survey and certification of onshore cranes
- Annual / Major Survey of Offshore Crane as per API & BS standards
- Periodic examination / load testing of Fork Lift Trucks, Reach Truck, Boom Loader, Pallet Truck.. Etc.
- Condition monitoring of lifting equipment's and accessories.

- Initial & Commissioning certification of cranes.
- Load Testing and certification of Life Boat and Rescue Boat Davits in accordance to class & IMO LSA requirements.
- Periodic/Major examinations of lifting Pad Eyes through Rope Access & Non Rope Access Methods (includes thorough examination, NDT , Load testing with portable pad eye tester)
- Load testing and certification of Offshore Containers, Skids, Baskets, Skips. Etc
- Bollard Pull testing
- Wire inspection certification (Magnetic Flex Leakage - EMAG)
- Load testing and certification of Ship Lift, Travel lift, Cargo Lift and Loading Ramp.
- Load Testing & Certification of Cargo Grabs, Gangways and Ladders.
- Destructive testing and proof load testing of lifting accessories or specimens using in-house test bed facility.

## QA/QC (TPI) Services

- Provision of QC Welding Inspector/Senior Welding Inspectors
- Provision of QC Painting/Coating Inspectors
- Quality Audit to the Subcontractor on Behalf of Client
- Quality Plan, ISO Documentation Preparation for Client
- Pre Shipment Inspection/Load Out Inspection at Ports
- Dimensional Inspection, Structural Alignment and Bolt Tightening Inspection
- Material receiving inspection and report submission as a TPI agency
- Factory Acceptance Test (FAT) / Site Acceptance Test (SAT) Witnessing and Endorsement
- Hydro Test/Pneumatic Test Witnessing and certification.
- MTC Review and Mechanical Test Witness For Material Identification
- Stage Wise Witness and Report Submission according to ITP as a TPI Agency
- Welder Qualification /Procedure Qualification Witnessing and Preparation of Welding Procedure, Welder Certificate, Welder Certificate Renewal
- Project Final Dossier/ Manufacturer Data Report (MDR) Review and Endorsement
- Blasting and Coating Inspection along with Chloride and Visual Test
- Coating Condition Monitoring Services
- Coating Pull Off Test Witness and Reports Endorsements
- Galvanizing Inspection and Reports Endorsement
- Powder coating inspection on behalf of client

## Mechanical & Metallurgical Testing Services

- Failure analysis
- Metallurgical Evaluations
- Chemical composition analysis
- Metallic material testing
- Welder/procedure qualification tests
- Finished Product testing
- Onsite Corrosion test
- MTC verification
- Fasteners testing

- Bar /rebar testing
- 3.2 material testing
- Brazing Qualification testing
- Positive Material Identification

### **Test we offer**

- Charpy Impact Test
- Tensile Test
- Bend Test
- Vickers Brinell, Rockwell & Tele Brinell Hardness Test
- Fracture test
- Flattening test
- Macro & Micro Examination
- Through Thickness Tensile Test
- Proof load Test
- Compression Test
- Shear test
- Nick Break Test
- ASTM Grain Size Measurement
- PMI XRF & OES with carbon
- Replica Metallurgy
- Intergranular Corrosion Testing (IGCT)
- HIC/SSC Test
- Pitting corrosion test
- Ferrite Test
- Ferrite by point count
- Surface Roughness test
- Angularity and Perpendicularity measurement
- Paint pull off test
- Salt contamination test

## **Marking Services**

- **Safety Signs**
  - PVC Slide in Pictograms
  - Safety/Operational signs
  - Evacuation and first aid Signs
  - Construction Adhesive(IMO Safety Signs)
  - Photo luminescent Signs for Evacuation and escape
- **Pipe Marking**
  - Coiled Plastic Markers
  - Duct Markers
  - Follow directional Arrow tape
  - Medical Gas Markers
  - Economy Pipe Markers



- Adhesive Roll Markers
- Color Banding Tape
- **Logistics Labeling**
  - Pre-cut Oil board stencils
  - Reusable plastic stencils
  - Area Marking
  - Valve Tag Identification
  - Lock out Tag out
  - High Performance Stainless
  - Steel Cable makers
  - Self-laminating accident
  - Prevention Tags

## Corrosion Control Services

### **Inspection & Consultancy**

- Provision of Coating Inspectors
- Coating condition Surveys
- HVAC Inspection
- Calculation of coating product requirement
- Coating guarantee surveys
- Condition monitoring
- Project planning
- Failure/Claim investigations
- Provision of training crews (conditional requirement)
- Maintenance supervision

### **Maintenance Activities**

- Riding team for coating maintenance
- Voyage steel repair works
- Riding team for Scaffolding works
- Coating rectifications and refurbishments
- Deck fitters for steel and mechanical jobs
- Robotic Duct cleaning works
- HVAC fabrication and installation
- Provision of UHP unit for rentals
- Pipe line internal cleaning
- Tank cleaning jobs
- Annual excavation jobs for inspection and maintenance
- Undertaking any magnitude of Blasting & Painting
- Sandblasting
- Hydro jetting
- High pressure washing
- Slurry blasting

- Power tooling
- Chemical/Vapor degreasing
- Application of high performance coatings
- Application of organic and inorganic zinc coatings
- Epoxy coatings
- Zinc-phosphate coatings
- Nonskid deck and helideck coatings
- Alkyd and vinyl coatings
- All types of single and twin pack coatings
- Protective coatings applied by airless, conventional spray and roller