

Our Valued Clients



AL-MEEZAN INDUSTRIAL METROLOGY SERVICES

House No. 22, Block C, Liaquat Chowk,
Sabzazar Scheme, Lahore-Pakistan
Tel: +92 42 3749 7298 Cell: +92 301 6236 150

info@aimscal.com
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POTENTIAL CLIENTS

- Oil and Gas production, processing and distribution industries.
- Power producers, operators and distributors.
- EPC contractors and sub-contractors.
- Leather textile and fiber industry.
- Food, beverage, pharma and cosmetics industry.
- Agricultural products and fertilizer manufacturer.
- Civil and mechanical material testing labs and contractors.
- Electrical and Electronics appliance manufacturer.
- Technical Training Schools and Engineering Universities.
- Road transport, rail and aviation industry.



Your Partners in Growth!

Third Party Calibration, Industrial Inspection & Testing Services of Industrial tools / equipment and other assets are mandatory part of predictive / proactive maintenance activities.

Third Party certifications are required not only to comply with regulatory and client requirement but also to fine tune industrial processes, ensure safety of workers and Integrity of equipment / plants.

AIMS is maintaining one stop shop for all such services.



ISO 9001:2015

COMPANY PROFILE

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Al-Meezan Industrial Metrology Services have been established to cater for the diversified needs of trade and industry for the implementation of ISO standards and provisioning of calibration, inspection and testing services.

Mission

To facilitate trade and industry by providing QMS and metrology related training, consultancy and calibration services as per latest international standards and guidelines.

Vision

Scientific and technological advancement of a country demands an organized and globally connected metrology infrastructure. Scientific and legal metrology systems are normally taken care by public sector organizations like National Metrology Institutes and relevant ministries.

However, industrial metrology systems are dependent on traceable calibration services provided by private sector calibration laboratories.

In developing countries inadequate level of metrology education / awareness and incomplete traceability of measurement results bars the local production from highly competitive global market.

Calibration results accredited to ISO/IEC 17025: 2005 from ILAC MRA signatories like PNAC, GAC or DAC are like passports for locally produced goods and services to transit across the globe.

AIMS cherish a vision of providing complete traceability and assurance of measurement results to the BIPM through recognized NMI like NPL (UK), NIST (USA) and PTB (Germany) in compliance with the requirements of ISO/IEC 17025: 2005.

CORE VALUES

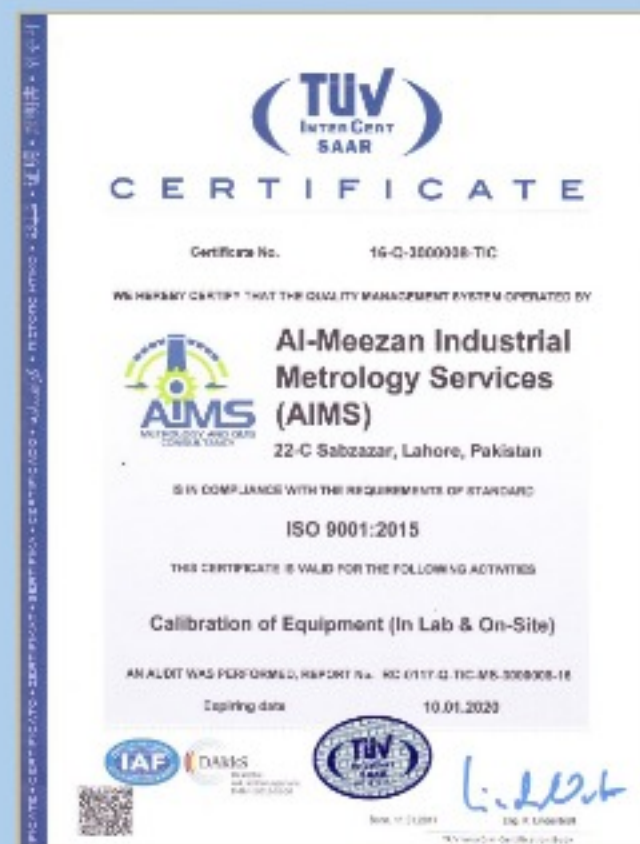
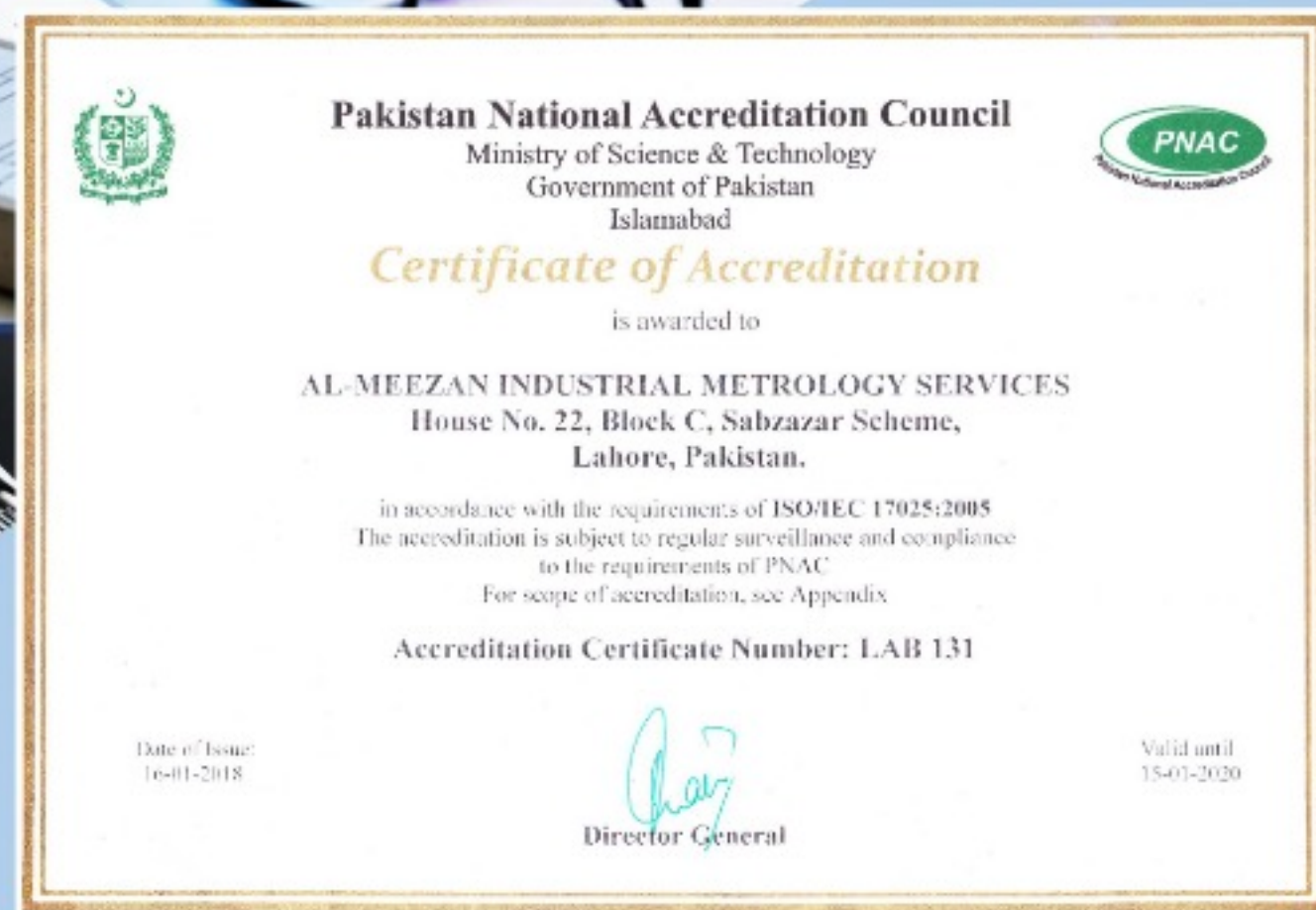
AIMS management have inculcated following core values in the staff;

- Customer requirement are thoroughly understood and complied with, feedback is valued and complaints are handled with due diligence and priority.
- Employees are our valuable asset and their dedication and trust in the company is our strength.
- Confidentiality of customer and AIMS valuable information is safeguarded at AIMS with due diligence.
- Integrity of calibration, inspection and testing results is ensured religiously.
- Standard of service is never compromised at AIMS.

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CALIBRATION SERVICES PROFILE

WE OFFER

Calibration Services in the following measurement parameters;

PRESSURE MEASUREMENT

- All types and sizes of pressure gauges, indicator, transducers and transmitters.
- Analogue and Digital barometers/manometers.
- Pneumatic PI, IP convertors and pneumatic transmitters.
- Pressure switches.
- Pressure Control valves.
- Pressure Safety and Relieving devices
- Hydro pressure testing.
- Pressure Chart Recorders.
- Pressure Calibrators.
- Dead Weight Testers and Piston Gauges.

TEMPERATURE AND HUMIDITY MEASUREMENT

- Bimetal and filled system thermometers.
- Liquid in Glass thermometers.
- Digital thermometer with (TC and RTD sensors).
- Temperature Controller and Switches.
- Temperature transmitters and recorders.
- Infrared thermometers and thermal imagers.
- Electric Ovens, incubators, chillers, freezers and hot cabinets.
- Temperature baths and Dry Block Calibrators.
- Thermo-hygrometers and data loggers.
- Dew point meters.

ELECTRICAL TIME AND FREQUENCY

- Analogue / Digital volt, ohm and multimeters.
- Clamp meters and energy meters.
- Decade Resistance, Capacitance and inductances.
- Insulation meters and earth resistance testers.
- Appliance and Installation testers.
- Transformer and switchgear test equipment.
- Hipot and Dielectric test set.
- Current and Voltage Injection Sources.
- Loop and Process Calibrators.
- Electronic timer, counter and oscilloscopes.

MASS, VOLUME FORCE AND TORQUE MEASUREMENT

- Analogue and Digital Weighing Scales.
- Volumetric Glass wares and provers.
- Spring Scale Dynamometers and Force Gauges.
- Weight sets F1 Class and Below.
- Compressive and Tensile Force machines.
- Tongue Gauges and Weight Indicators.
- Proving Rings and Load Cells.
- Torque screw drivers and wrenches.
- Static and Dynamic Torque transducers.
- Hydraulic and Motorized Torque Tools.

DIMENSIONAL MEASUREMENT

- Steel Rules and Meter Tapes.
- Vernier Caliper, height and depth gauges.
- Hi Lo welding and bridge cam gauges.
- Micrometer inside, outside and depth.
- Dial indicators.
- MRP groove depth and pitch gauges.
- Flange Square and Bevel Protectors.
- Angle measuring devices.
- Spirit levels and surface tables.
- Coating thickness and Ultrasonic thickness gauges.

ANALYTICAL, INSPECTION AND DIAGNOSTIC TOOLS AND EQUIPMENT

- pH, conductivity and turbidity meters.
- Viscosity and Specific Gravity Meters.
- Visible and IR spectrophotometers.
- Hardness testers.
- Ultrasonic flaw detector machines.
- Anemometers, tachometers and sound level meters.
- Magnetic field indicators and gauss gauges.
- Visible and UV light meters.
- Portable and fixed gas detectors.
- Pinhole detectors.

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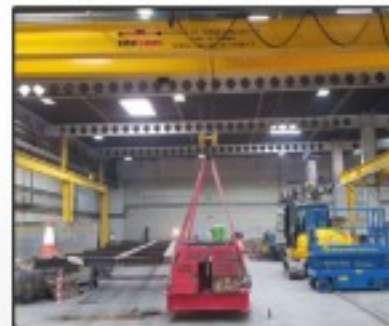
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Lifting Equipment Inspection, Testing and Certifications

(1) Visual and Magnetic Particle Inspection, Proof Load Testing and Certifications for;

- ◆ Power Hoist, Beam Lifters, Shifters and Stackers.
- ◆ Mobile, Crawler, Gantry, Electric Overhead, Slew Jib & Tower Cranes.
- ◆ Chain Hoist, Lever Hoist, Sheave Blocks, Jacks and Pallet Trucks.
- ◆ Cargo / Passenger Lift Elevators and Escalators.
- ◆ Rigging Gears i.e. slings, belts, shackles, Eyebolts, Hooks, Master Links etc.
- ◆ Excavator, Grader, Wheel Loader, Bulldozer, Earth Compactor and Dumper.
- ◆ Vehicles i.e. all types of trailers, Trucks and other automobiles.
- ◆ Access work plat forms, passenger lifts, baskets and scaffolding etc.
- ◆ Fall Protective Equipment i.e. Full Body safety harness, Land yard, fall arrestors.
- ◆ Training and Certification for Crane and Fork lift Operators.



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Non-Destructive Inspection and Testing Services

AIMS is using following non-invasive, non-destructive techniques to determine the integrity of a material, component and structure for finding surface / internal flaws (if any) without interfering in any way with the integrity of material and its suitability for service;

- ◆ Dye Penetrant Testing.
- ◆ Magnetic Particle Inspections.
- ◆ Ultrasonic Flaw Detection and Thickness Gauging.
- ◆ Material Hardness Testing.
- ◆ Coating Thickness Gauging.
- ◆ Baroscopic Inspection.



- ◆ Eddy Current Testing.
- ◆ Holiday Detection.
- ◆ Positive Material Identification.
- ◆ Radiographic Testing.



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ISO 9001:2015



For Existing CP System, AIMS can offer following Services,

- ◆ Routine Monitoring of CP System.
- ◆ Coating integrity /Inspections.
- ◆ CP System Audits and Trouble shooting.
- ◆ Monitoring and repairing of Transformer Rectifier Units.
- ◆ Current drainage Surveys.
- ◆ Soil resistivity surveys and ground bed locating.
- ◆ Electrical Continuity, isolation and resistance.
- ◆ Potential profiles; Annual and close interval surveys.
- ◆ Stray current and interference studies.
- ◆ Specialist Surveys (CIPS, DCVG, Pearson etc.)

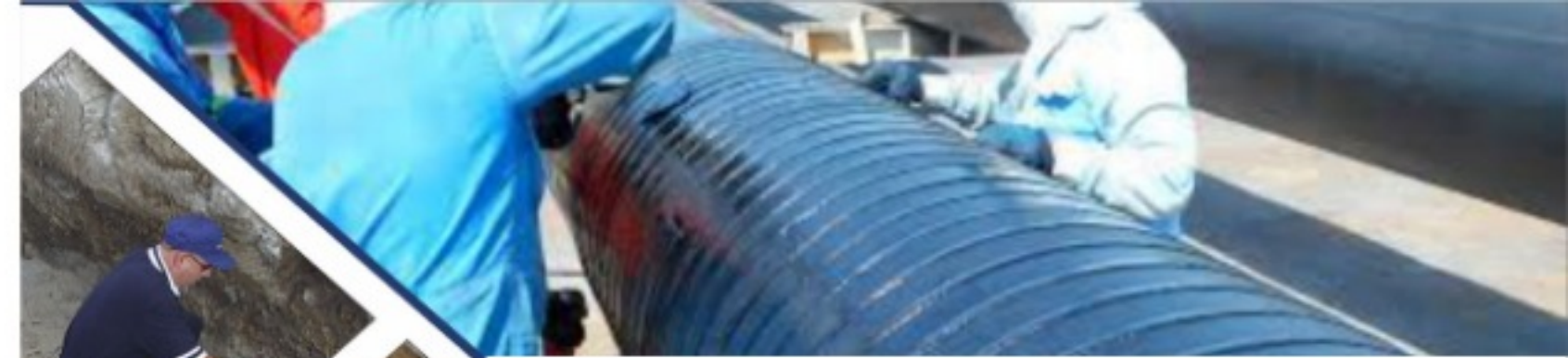


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ISO 9001:2015



Integrity Measurement and Life Extension through Cathodic Protection



For New Facilities, We Offer following Services and supplies;

- ◆ CP System feasibility, initial estimation, site investigations.
- ◆ Soil and water analysis.
- ◆ Calculation of required system and isolation / resistance testing.
- ◆ Project Planning and Selection of Test Procedures.
- ◆ Initial Testing and Monitoring for data collection.
- ◆ CP System Design, Preparation of BOQ and final project costing.
- ◆ Supply of Materials as per BOQ (Optional).
- ◆ Manufacturing of Transformer Rectifier Unit (if required).
- ◆ Preparation of Ground bed and installation of anodes.
- ◆ Installation of rectifier and joint bonding, monitoring and testing commissioning.



Electrical Safety Testing for Household Electrical Appliances



AIMS are also offering services of electrical safety testing for Industrial/house hold electrical appliances and tools for pre-shipment inspection. As per IEC Standard 60335-1

Following tests are available;

- 1) L-N mains volts, wiring and protective earth status.
- 2) Insulation Resistance test at 500V for Class I, II and III Appliances.
- 3) Protective Earth Bond Test at 200 mA and 25 Amp for class I Appliances.
- 4) Substitute Leakage Current.
- 5) Load Leakage and Touch Current.
- 6) Appliance Power and Load Current Test.
- 7) Protected Extra Low Voltage Test.
- 8) IEC Lead Test.
- 9) Trip Current and Time Test for Residual Current Devices.
- 10) Earth Resistance for mains earth System.



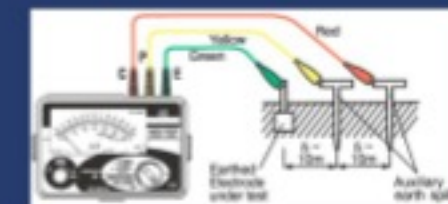
Medical Electrical Devices

(Basic Safety and Essential Performance Testing)



AIMS is offering services of Basic Safety testing for Medical Electrical Appliances as per the requirement of IEC Standard 60601-1. We are performing following test with state of the art tester Bio Tek 601;

- 1) L-N mains volts, wiring and protective earth status.
- 2) Insulation Resistance test at 500V for Class I, II and III Appliances.
- 3) Protective Earth Bond Test at 1 A and 10 A for class I Appliances.
- 4) Leakage Current Earth and Enclosure.
- 5) Patient Leakage Current.
- 6) Patient auxiliary leakage Current.
- 7) ECG Electrical Safety Test.
- 8) IEC Lead Test.
- 9) Trip Current and Time Test for Residual Current Devices.
- 10) Earth Resistance for mains earth System.



Calibration and Performance analysis of Biomedical Equipment and devices through simulation and control of patient related parameters. AIMS Scope of Biomedical Calibration is as under;

- 1) Electrosurgical Units.
- 2) Defibrillators.
- 3) Pace Makers.
- 4) Infusion/Syringe Pumps.
- 5) Incubators and Ventilators.
- 6) Patient Monitors.
- 7) Pulse Oxy Meters.
- 8) ECG Machines.
- 9) Ultrasound and X-Rays machines.
- 10) Pressure Temperature / Humidity and Flow devices.



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ISO 9001:2015

Training of ISO Standards

AIMS offer comprehensive trainings for the following ISO standards;

- ◆ ISO / IEC 17025
- ◆ ISO 17020
- ◆ ISO 9001
- ◆ ISO 14001
- ◆ ISO 45001 (formerly OHSAS 18001)



For all above ISO standards, three levels of training are available;

- ◆ Level I (Awareness of the general requirements of the standard).
- ◆ Level II (Implementing the standard in an organization)
- ◆ Level III (Internal Auditing of the standard).

Complete Consultancy Package for ISO / IEC 17025 consists of;

- ◆ Training on Requirement and Implementation of ISO 17025.
- ◆ Preparation of Quality Manual and SOPs.
- ◆ Review of existing SOPs and Formats and its alignment with Standard requirement.
- ◆ Training on Uncertainty of Measurement as per UKAS M3003 (1 day)
- ◆ Training on Internal Audit of QMS System.
- ◆ Training on Internal Quality Control Activities i.e, Intermediate checks, PT and ILC etc.
- ◆ Internal Audit of system (Once Implemented before PNAC Visit)
- ◆ Consulting for Closing of PNAC NCR for pre/full assessment visit.



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QMS Consultancy



AIMS Management having ample experience of documentation, implementation, staff training, internal and external audits for QMS like ISO/IEC 17025, ISO 17020, 14001, 18001 and 9001 could be the right choice for consultancy and implementation of QMS.

Consultancy would be comprising of following steps;

- ◆ Preliminary meeting and visit of organization to understand the nature of business/activities.
- ◆ Review of existing documentation and procedures.
- ◆ First training session for awareness of the required QMS system.
- ◆ Preparing complete documentation package for the organization.
- ◆ Two to three training sessions for familiarization of management with QMS Documents.
- ◆ Guiding the organization for the implementation of the system.
- ◆ Internal Audit of the organization for GAP analysis.
- ◆ Submission of application to the certification/accreditation body.
- ◆ Preparation for the external Audit.
- ◆ Assisting the organization for CAPA resulting from external Audit/Assessment.



Training Courses

Following Training Courses are Available from AIMS Metrology;

- MTC01; Six W's about Calibration.
MTC02; An Introduction to World Metrology System.
MTC03; Precision Pressure and Vacuum Calibration.
MTC04; Temperature Metrology Concepts and Realization.
MTC05; Humidity Measurement techniques and applications.
MTC06; Precision Mass Metrology and Weighing Scale Calibration.
MTC07; Force Metrology and Calibration of Load Cells.
MTC08; Calibration of Mechanical / Electrical and Hydraulic Torque Wrenches.
MTC09; Precision measurement of volume in analytical labs.
MTC10; Pipetting techniques in micro volume measurement.
MTC11; Fluid Level Measurement in Process Industry.
MTC12; Fluid flow measurement techniques and Flow Meters.
MTC13; Dimensional Metrology and Tooling
MTC14; Precision Electrical Measurement
MTC15; Time Frequency and RPM Measurement
MTC16; Calibration of Energy and Power Meters
MTC17; Acoustics Noise and Vibration Metrology
MTC18; Measurement Uncertainty Fundamentals
MTC19; UOM Calculation in Calibration and Testing Labs.
MTC20; Measurement Uncertainty GUM Approach.



Metrology Training and Consultancy

These Courses have been designed for;

- ◆ Trainee engineers and Technicians.
- ◆ On the Job Apprentices.
- ◆ Inspection engineers and technicians.
- ◆ Testing Engineers and technicians.
- ◆ Calibration engineers and Technicians.
- ◆ Maintenance engineers and technicians.
- ◆ Plant operators and QC Inspectors.
- ◆ Planning Engineers and decision makers.
- ◆ Equipment Inventory in-charges.
- ◆ Equipment Sales and Purchase engineers.
- ◆ Precision Measurement equipment dealers.

Training Benefits

Adding Values to Your Systems/Organization through;

- ◆ Compliance with HR training requirements.
- ◆ Compliance with training clauses of ISO standards.
- ◆ Best Choice and competitive purchase of Test Equipment.
- ◆ Enhanced confidence on measurements standards/systems.
- ◆ Fine tuning of operations/system through accurate measurements.
- ◆ Reduction in operational mistakes where by expensive consequences averting.
- ◆ Better measurement and monitoring of OHSE activities.
- ◆ More reliable QC inspection/testing for raw material and finished goods.
- ◆ Waste reduction through improved measurement best practice.
- ◆ Decrease in re-work time / plant maintenance through improved accuracy and throughput.

About Trainers;

AIMS pool of freelance trainers consists of instructors having;

- ◆ Attended number of metrology related trainings in Pakistan and Abroad.
- ◆ + 20 years of national / international experience in the metrology field.
- ◆ Provided training to various organization in the Middle East and Pakistan.
- ◆ Worked as Technical Assessor with PNAC, ENAS and GAC.
- ◆ Headed number of accredited 17025 labs in the Middle East and Pakistan.



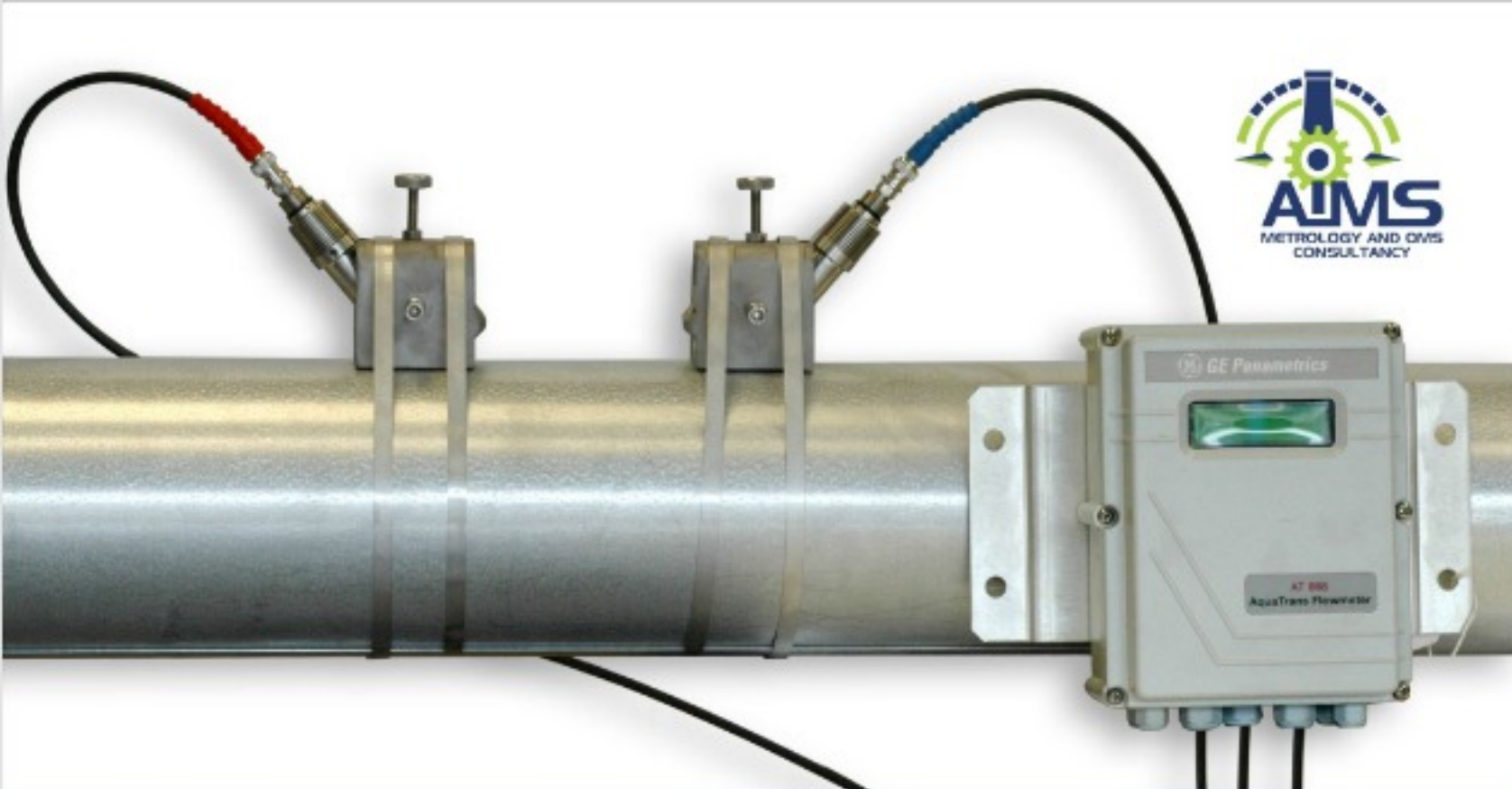
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Calibration of Fuel Dispensers, Flow Meters Totalizers and Process Tanks



Al Meezan Industrial Metrology Services under the auspices of Punjab Weights and Prices Bureau provides services for the calibration / verifications of fuel dispensers and fuel storage tanks and volume proving tanks.

AIMS also provides services for calibration of flowmeters, totalizers and liquid calibration of process tanks installed in process industry for measuring, monitoring and storing of process fluids.

Calibration is also offered for liquid weight measurement systems installed under silos, hoppers and liquid tanks for batching and mixing of process fluids.

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Calibration/Verification of Storage Tanks

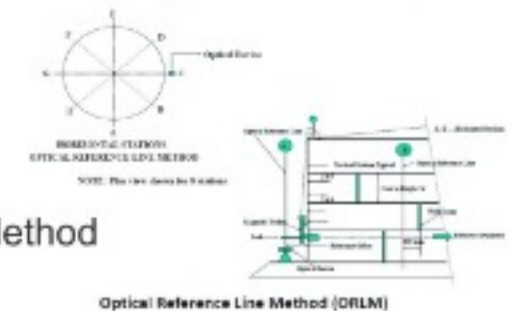
Calibration of Liquid Storage Tanks

Calibration is method for accurately determining the capacity of a tank or part of it and expressing the capacity as volume for a given height of the liquid contained.

Tank Calibration is must for custody transfer, mass balances in refineries and volume balances in tank farms and pipe line terminals.

American Petroleum Institute's Manual of Petroleum Measurement Standards Chapter 2 outlines procedures necessary for calibrating closed storage vessels larger than a drum, and methods for computing the volumes contained therein;

- ◆ API Chapter 2.2 A: Manual Tank Strapping Method
- ◆ API Chapter 2.2 B: Optical Reference Line Method
- ◆ API Chapter 2.2 C: Optical Triangulation Method
- ◆ API Chapter 2.2 D: Internal Electro Optical Distance Ranging Method
- ◆ API Standard 2555: Liquid Calibration



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For Process Plant Instrumentation and Control Systems, AIMS offer Following Services;



- ◆ Temperature, Pressure, Flow, Level Instruments Supply, installation and Calibration.
- ◆ Control Valve, Shut-off Valves, Pressure Safety Valves, and Solenoid Valves & Actuators Supply & Installation.
- ◆ Overhauling/Calibration of Safety and Control valves.
- ◆ Installation and testing of online vibration monitoring systems.
- ◆ Installation of online gas analyzers, moisture, pH, TDS monitoring systems.
- ◆ Installation of instrument mounting frames, tubing and stands etc.
- ◆ Instrument, power & Control cable laying & testing (Insulation & Continuity test)
- ◆ Erection of Control, Marshaling panel and Field JB's.
- ◆ Supply of qualified technicians and equipment for plant turn around inspections.
- ◆ Preparation of proposals and E & I project cost estimation services.



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Electrical and Instrumentation Supplies, Installation and Testing Commissioning Services



AIMS provide turnkey and PCC project solution for Electrical and Instrument scope in Oil and Gas, Power, Chemical / Fertilizer, Food / beverage and other industries. AIMS team is well equipped with certified tools and plants for testing and commissioning and follows client HSE protocols to complete the job as per standard and schedules.



Following Services are offered in Electrical field;

- ◆ Substation/MCC Installation and testing commissioning.
- ◆ Turbo Generators and Diesel Generating sets Emergency Power Generators.
- ◆ External & Internal lighting work.
- ◆ Electrical Power Distribution Network.
- ◆ LV MV MCC Switch boards supply and installation.
- ◆ Erection of Industrial Motors LCS, Switches and Power Sockets.
- ◆ Installation HT/LT Switchgears, AMF Panels and Power DBs.
- ◆ Fixing of Cable trays, ladders, PVC, GI Conduits and building wiring etc.
- ◆ Installation of Fire and Gas Detectors and Alarming Systems.
- ◆ Installation of Electrical Earth and lightning protection systems.



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