



AL MIQIAS CO.



AL MIQIAS COMPANY

for Engineering
Services and
General Trading



ALMIQIAS ABOUT US

Al Miqias is a third-party inspection firm specialized in (construction material testing and geotechnical investigation, welding inspection & certificates, qa/qc services for tanks & pipelines, lifting equipment inspections, NDT Nondestructive testing, paint & material inspection, hydrostatic test & calibration).

Our company is equipped with the most advanced inspection tools & machinery along with region and cities. We are also specialized in providing any engineering products needed for your site inspections, our service and delivery expand throughout all Iraq cities. Al Miqias is dedicated to provide the very best qualified engineers and the most advanced engineering and inspection tools

OUR SERVICES

► MECHANICAL AND ENGINEERING TESTING

- NDT
- Heat treatment
- 3D lazer scan
- Welding services
- MFL and corrosion capping
- Painting Inspection
- Lifting equipment
- Others

► CONSTRUCTION MATERIALS TESTING

- Steel products
- Concrete tests
- Construction materials
- Geo technical tests
- Asphalt tests
- Piles tests

► TRAINING

► CONSULTAUCY

► CALIBRATION SERVICES

FOLLOWING SOME THIRD-PARTY INSPECTION SERVICES

Pipe line & Pipe network & Steel Structure Fabrication
Welding inspection & NDT
Surface Protection & Sandblasting & Coating Services



1 NON-DESTRUCTIVE TESTING NDT

- Visual inspection VT
- Dye Penetrant Testing PT
- Magnetic Particle Testing MT
- Radiographic X-Ray & Crawler X-Ray RT
- Ultrasonic Testing UT
- Phased Array Ultrasonic Testing (PAUT) TOFD
- Positive Material Identification PMI
- Ultrasonic Thickness Measurement UTM

2 HEAT TREATMENT- PRE-HEATING

post weld heat treatment (pwht),
and stress relieving

③ 3D LASER SCANNING AND TANK CALIBRATION

TANK & CIVIL CONSTRUCTION APPLICATIONS

- Area/volume measurements
- Angular or tilt information
- Length measurements and diameters
- Shape information, such as roundness of objects
- Deformation, or change, in objects over time
- Civil Services (Constructions, bridges, walls and etc.)
- Tank Inspection
- Design/modification projects
- Deformation monitoring
- Tank roundness inspection
- Volume calibration
- Simple coordinates of objects

④ PAINTING INSPECTION

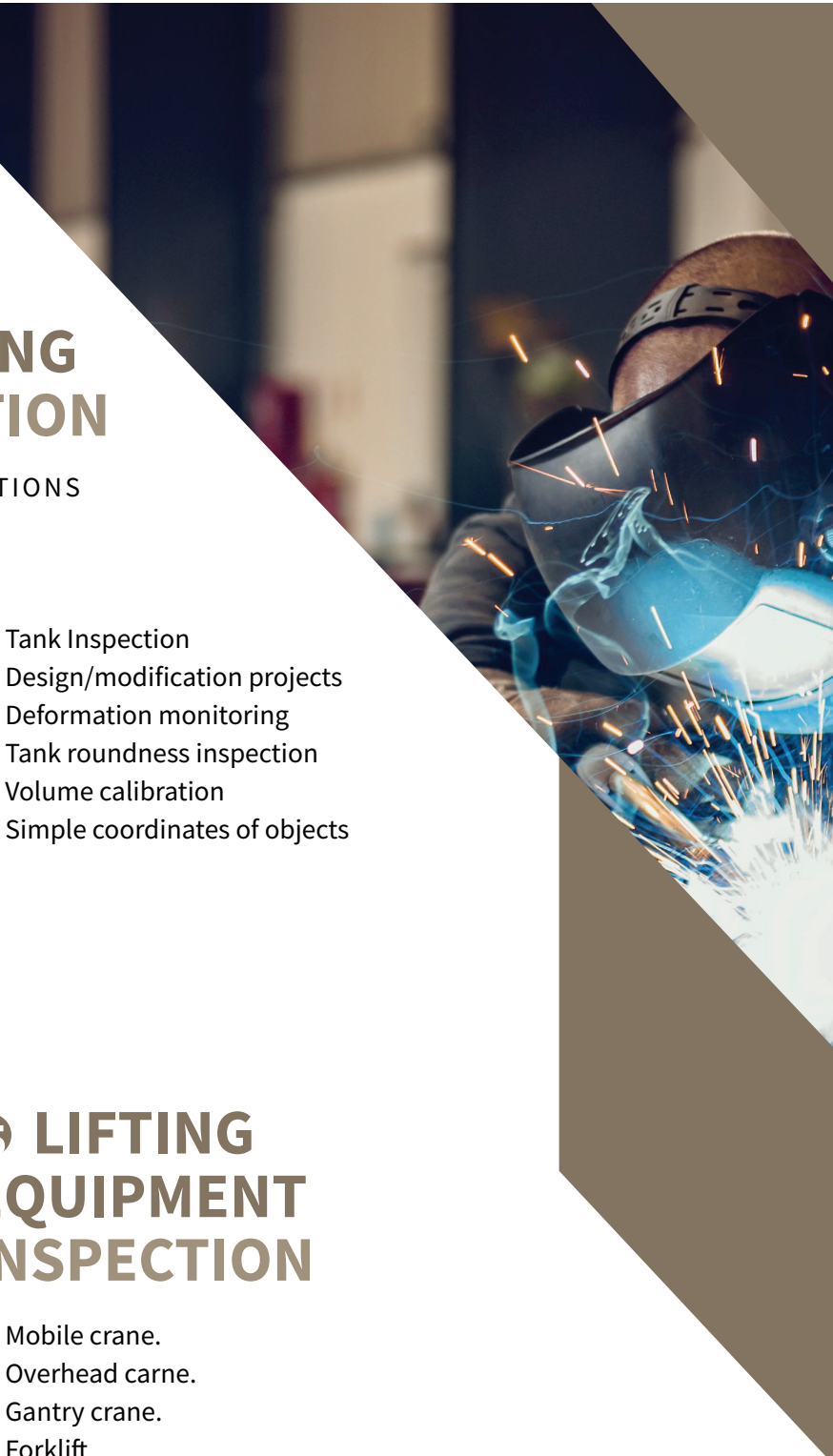
- Salt Test
- Cleanness
- Surface profile gauge
- Environmental Condition test.
- Dry film thickness
- Wet Film Thickness
- Holiday Test (Spark Test)
- Cross Cut Test
- Pull of tester

⑤ LIFTING EQUIPMENT INSPECTION

- Mobile crane.
- Overhead crane.
- Gantry crane.
- Forklift
- Front end loader.
- Trailer.
- Lifting equipment accessories
- Padeye test

⑥ WELDING SERVICES

⑦ MFL AND CORROSION CAPPING





8 OTHER SERVICES

- Hydrostatic /Pressure Testing
- Vacuum /Leak Testing for Tanks
- Holiday/spark Testing/Pin Hole Sponge Testing.
- Hardness testing
- Video Inspection –Bore scope
- Temperature Mapping

9 TRAINING

We offer specialized training for the application of NDT Instrument. Miqias provides a variety of training courses in its facilities in Erbil, with collaboration and an official joint venture with Advanced Technology Group (ATG) for API 650, ASME Codes, ASNT level II, writing NDT procedures, Coating, Asset integrity and Fitness for service (FFS) and Risk-Based Inspection (RBI).

10 CONSULTANCY

We offer consultancy services in welding steel fabrication, NDE, Quality Control and Inspection. Consultancy in any or all of the following areas is available:

- Compliance with ASME, AWS, API, AISC & other Codes, specifications and standards.
- Preparation of Quality Assurance & Control Manual & Procedures.
- preparation and/or review of welding procedures & specifications (WPS, PQR, WQR)
- Preparation of Testing & Inspection plans.
- Welding Designs and Estimates
- Equipment and process selection
- Productivity & Quality Improvements.

11 CALIBRATION SERVICES

A. Pressure Instrument:

- Pressure Gauges (Air, Pneumatic, Vacuum, Digital gauges)
- Pressure Safety Valves (PSV)
- Pressure Relief Valves (PRV)
- Pressure Indicators & Calibrators
- Pressure Hose
- Pressure Transmitter
- Pressure Recorder

C. Hardness Testers:

- Portable Type Brinell Leap
- Vickers
- Rockwell

E. Dimensional Hand Tools and Gauges:

- Vernier Calipers (Digital, Analogue)
- Depth Gauge
- Dial Indicators
- Height Gauges-M micrometers
- Rulers
- Tape Measures
- Pit Gauge
- Step Blocks
- Force Gauges

G. Coating Instruments:

- Surface Profile Gauges (SPG)
- Roughness Gauges (RTR)
- Coating Thickness Gauges
- Soluble Salt Tester (SST)
- Pull of Tester (ATM, ATA)

J. Light Instruments:

- Radiographic Test Viewers
- Densitometers

B. Temperature Instruments:

- Temperature Gauges & Indicators
- Temperature Recorder
- Thermometers (Dial, Digital)
- Infrared Thermometers
- Ovens (Portable, mobile)
- Liquid-In-Glass Thermometers
- Temperature Transmitter
- Humidity and Temperature Meters (DPM)

D. Ultrasonic Instruments:

- Ultrasonic Thickness Gauge (UTG)
- Step Block

F. Electrical Instruments:

- AC/DC Clamp meter
- Multimeters
- Insulation Tester
- Holiday Tester
- Loop Calibrator
- RTD Calibrator
- mA Source
- Thermocouple Calibrator

H. Magnetic Instruments:

- Yoke (AC, DC, Permanent)
- Test Block
- UV Light

K. Torque Wrench

I. Safety Equipment & Gas Detectors

- Multi Gas Detectors (4 Gas detectors, Gas detectors) (BW, MSA, Drager)

L. Welding Machine



STEEL PRODUCTS TEST

Material testing of a steel bar, Anchor bolt, and plate is very important, they put under testing to recognize their various specific uses. It involves the estimation of characteristic and behavior under varying conditions, the test on metal include

Tensile and elongation test ④

Rockwell hardness test ⑤

Brinell hardness test ⑥

Dimension test ①

Bending test ②

Chemical composition analysis ③

CONCRETE TESTS

STANDARD TESTS FOR FRESH CONCRETE INCLUDE

- Workability by slump test
- Air content test
- Temperature test

HARDENED CONCRETE INCLUDE

DESTRUCTIVE TESTS ①

- Compressive strength test for cube or cylinder specimens
- Split-tensile test
- Flexural strength test
- Permeability test
- Compressive strength test of drilled cores

NON-DESTRUCTIVE TESTS ②

- Rebound hammer test
- Ultrasonic pulse velocity test

CONCRETE MIX DESIGN

Concrete mix design is the process of selecting the ingredients for a concrete mixture and deciding on their proportions. When designing a concrete mix, it should always consider the desired strength, durability, and workability according to project requirements and specifications. Concrete mixes are designed to follow the guidelines provided by ACI Committee 211 Standard or BS EN 206-1 Practice for Selecting Proportions for Normal, A concrete mix can be designed using the tables and calculations provided in the standard

CONCRETE RAW MATERIALS

1 Aggregate tests:

Aggregates play a major role and influence in the properties of both fresh and hardened concrete. Changes in gradation, maximum size, unit weight, and moisture content can all alter the character and performance of your concrete mix. The following tests can be identified more commonly in the construction industry

- Grading test of fine and coarse aggregate.
- Specific gravity test
- Moisture content test
- Loose bulk density test
- Flakiness index test
- Elongation index test
- Water absorption test
- Organic impurities test
- Chloride content test
- Sulphate content test
- Potential alkali-silica reactivity test
- Soundness test

3 Water Test:

Chemical test of water used in concrete should meet with specifications requirements

- PH Value Test
- Chloride Test
- Sulphate Test
- Acidity Test
- Alkalinity Test
- Suspended Matters
- Organic and Inorganic Solids

2 Cement tests:

Cement used in construction should have proper strength and characteristic properties. For this various tests are done on the cement to check the quality of the cement

- Fineness test
- Compressive strength test
- Initial and final setting time test
- Loss of Ignition test
- Chemical test (Insoluble, Al_2O_3 , Fe_2O_3 , MgO , SO_3 , C_3A , C_3S , C_2S , C_4AF)

4 Admixture test:

An admixture is used as an ingredient of a cementitious mixture to modify its freshly mixed, setting, or hardened properties and that is added to the batch before or during its mixing and tested per its datasheet

CONSTRUCTION MATERIALS

MASONRY UNITS TEST

BRICK TESTS

- Compressive strength test
- Absorption test
- Effloresce test
- Thermal conductivity test

CONCRETE MASONRY BLOCKS

- Dimensional test
- Compressive strength test
- Absorption test
- Density test

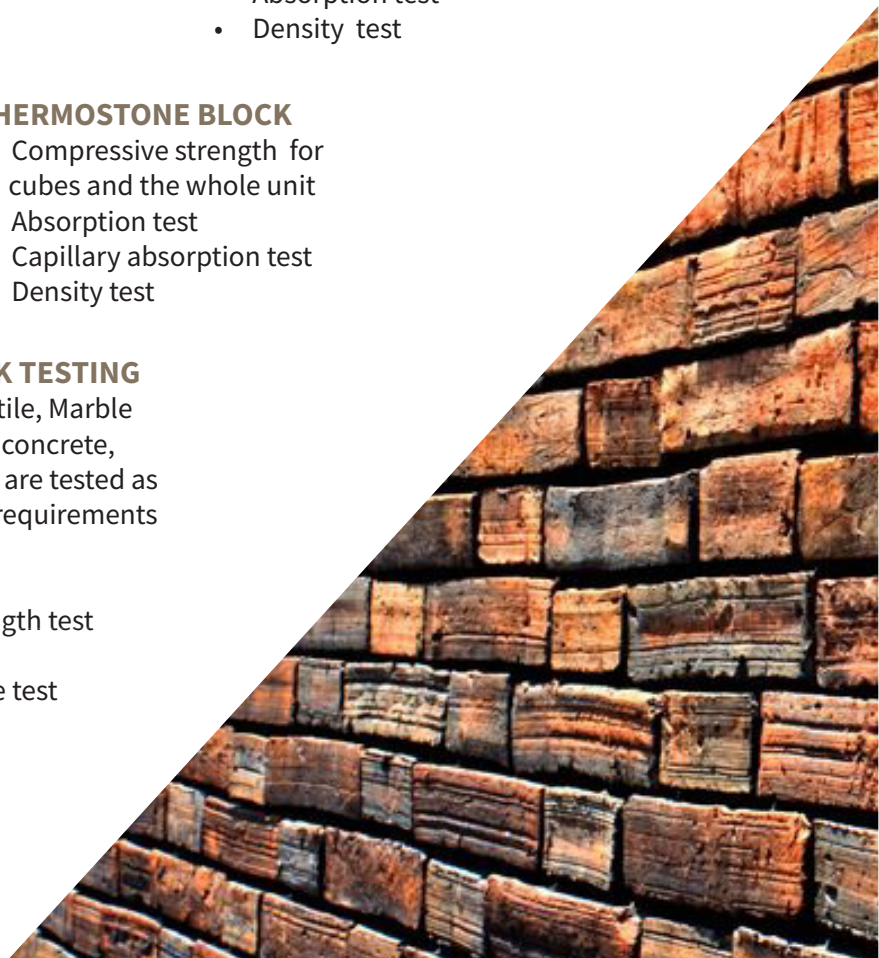
THERMOSTONE BLOCK

- Compressive strength for cubes and the whole unit
- Absorption test
- Capillary absorption test
- Density test

TILES & INTERLOCK TESTING

(Mosaic tile, Ceramic tile, Marble tiles, Granite, Precast concrete, curbstone, Interlock) are tested as per the specification requirements

- Visual test
- Dimensions test
- Compressive strength test
- Absorption test
- Modules of rupture test
- Abrasion test
- Effloresce test



GEOTECHNICAL TEST

The geotechnical investigation essential part of the planning and construction of all types of projects, it is the knowledge of the subsurface conditions.

The geotechnical investigation with its respective services shall be carried out. Their nature and extent depend on the structure's type, the size of the structure, and the expected ground conditions.

Geotechnical testing is conducted by site characterization, laboratory testing, and professional interpretation of data obtained to complete the design and construction of the site improvement.

Laboratory tests on Soils

1 SITE INVESTIGATION (ONSHORE & OFFSHORE)

- Standard penetration test (SPT)
- Cone penetration test (CPT)
- In situ vane shear test.
- Measuring water level.
- Piezometer test
- Plate load test
- In situ California bearing ratio (CBR) test
- Trail pit sampling and testing
- Thermal conductivity test
- Electrical resistivity test
- Seismic down hole and bore hole

2 LABORATORY TESTING

Classification and Index Property Tests

- Water Content determination
- Density-Void ratio determination
- Atterberg Limits (liquid and plastic limit)
- Particle Size Distribution (Sieve Analysis and hydrometer)
- Specific Gravity of soil
- Max dry density

3 STRENGTH AND DEFORMATION TESTING

- Unconfined (Uniaxial) Compression
- One-Dimensional Consolidation or Swell Test
- Direct Shear Test
- Vane Shear test
- Triaxial Compression (UU, CU, CD) - Triaxial Extension test





PAVEMENT SYSTEM

To ensure quality and reliability several tests must be done :

1 SUBBASE, BASE COURSE AND SUBGRADE TEST

- Sieve analysis
- Maximum dry density & Optimum moisture content
- California bearing ratio (CBR %)
- Liquid limit & Plasticity index
- Abrasion by Los Angeles
- Flat & elongated Particles
- Soil Compaction Testing (Site density ,water content ,max dry density ,optimum moisture content ,compaction ratio)

2 EMULSIFIED ASPHALT ANALYSIS (PRIME COAT, (PRIME COAT, TACK TESTCOAT,... ECT)

Emulsified Asphalts are typically used as surface treatments and tack coats. They fall into four categories: quick setting, rapid setting, medium setting, and slow setting. Emulsions can also be cationic and anionic. Depending on the type, several combinations of tests can be required to verify adherence to specification. Both the properties of the asphalt emulsion and the asphalt after distillation or evaporation are measured. Testing May Include:

- Kinematic Viscosity
- Flash Point
- Water Percent
- Distillation Test
- Residue from Distillation
- Absolute Viscosity of residue
- Ductility of residue
- Solubility of residue

Pavement System Consists of the pavement and its foundation materials, which are layers of subbase and subgrade, A good pavement provides comfort riding, structural integrity, and safe skid resistance.

3 ASPHALT

A TESTS ON BITUMEN

There are several tests to assess the properties of bituminous materials. The following tests are usually conducted to evaluate the different properties of bituminous materials.

1. Penetration test
2. Ductility test
3. Softening point test
4. Specific gravity test
5. Viscosity test
6. Flash and Fire point test
7. Water content test
8. Loss on heating test

B HOT ASPHALT ANALYSIS

Its Standard procedure to verify that plant-produced hot mix asphalt will meet mix design requirements.

The tests may include :

1. Sieve Analysis test
2. Asphalt Ratio test
3. Marsha Stability and flow test
4. Lab Density test
5. Air Voids test
6. Voids in mineral Aggregate test
7. Compaction ratio and thickness of the layer
8. Surface Roughness

C HOT ASPHALT DESIGN

Hot mix asphalt (HMA) consists of two basic ingredients: aggregate and asphalt binder. HMA design is the process of determining what aggregate to use, what asphalt binder to use, and what the optimum combination of these two ingredients ought to be.

D AGGREGATE USED IN THE HOT ASPHALT MIX TESTS

Sieve Analysis test for all sizes of aggregate (coarse, medium, fine)

1. Abrasion by Los Angeles
2. Soundness
3. flakiness and elongation
4. Crushing Value
5. Deleterious Material
6. Coal Lignite
7. Plasticity index



PILE TEST

DYNAMIC LOAD TEST

This test method is used to provide data on strain or force and acceleration, velocity or displacement of a pile under impact force. The data are used to estimate the bearing capacity and the integrity of the pile, as well as hammer performance, pile stresses, and soil dynamics characteristics, such as soil damping coefficients and quake values

STATIC LOAD TEST

one of the most common methods for testing the actual in-situ capacity of a pile. The test procedure is based on the direct measurement of pile head displacement in response to a physically applied load and there are three types of its :

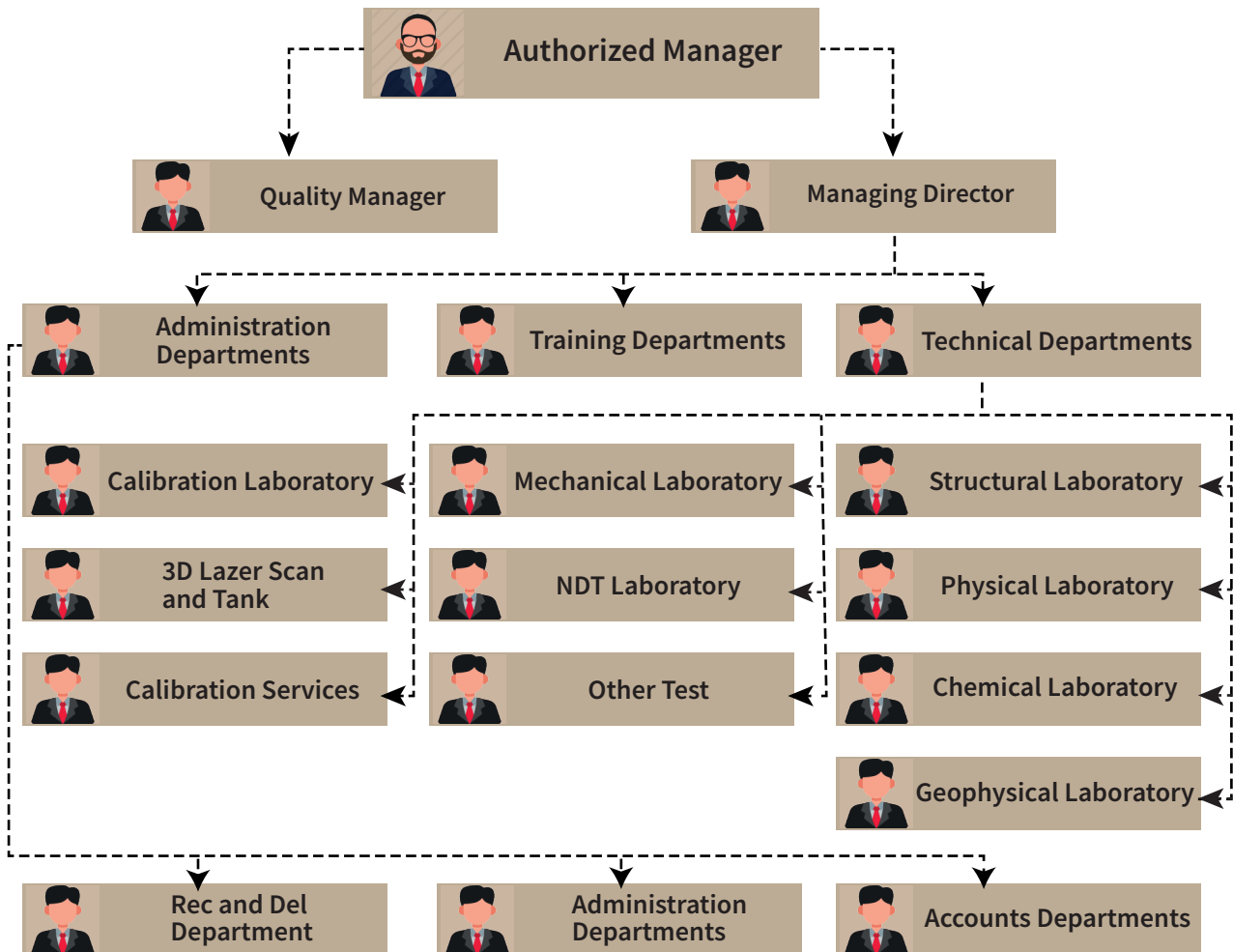
- A Compression load test.
- B Tension load
- C Lateral load

PILE INTEGRITY TEST

Used to discover and assess flaws before further damage occurs.

ORGANIZATION CHART

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	شركة المقياس للخدمات الهندسية والتجارة العامة المحدودة	FO 5-5/1	الرمز
	قائمة الاجهزة المختبرية والصور	1 of 11	رقم الصفحة
		ISO/IEC17025	المواصفة

ت	اسم الجهاز Machine Name	الرقم التسلسلي S/N	رمز الجهاز	المنشأ	القسم	التخصص
1	جهاز فحص الانضغاط Compression testing machine 2000 KN	625.270.400-KT	MQEL-EQ-1	Dinc Makina	الفيزيائي Physical	فحوصات الكونكريت Concrete Test
2	جهاز فحص الانضغاط Compression testing machine 2000 KN	21/002788	MQEL-EQ-2	U Test	الفيزيائي Physical	فحوصات الكونكريت Concrete Test
3	جهاز فحص قوة الكسر Flexural test machine	21/002806	MQEL-EQ-3	U Test	الفيزيائي Physical	فحوصات وحدات البناء Tiles Test
4	جهاز فحص البري Abrasion test machine 300 KN	/	MQEL-EQ-4	U Test	الفيزيائي Physical	فحوصات الكونكريت Concrete Test
5	جهاز فحص الشد Tensile testing machine 800 KN Capacity	626.180.140.100.PT	MQEL-EQ-5	Dinc Makina	الفيزيائي Physical	فحوصات الحديد Steel Test
6	جهاز فحص نفاذية الكونكريت Permeability Test device with air compressor (50 lt Air Tank)(8 Bar capacity)	/	MQEL-EQ-6	Dinc Makina	الفيزيائي Physical	فحوصات الكونكريت Concrete Test
7	خلاطة اسمنت Cement mortar mixer	21/002809	MQEL-EQ-7	U Test	الفيزيائي Physical	فحوصات الاسمنت Cement Test
8	هزاز فحص الاسمنت Cement mortar shaker	21/002803	MQEL-EQ-8	U Test	الفيزيائي Physical	فحوصات الاسمنت Cement Test
9	جهاز فحص نعومة الاسمنت (بلين) Blain air permeability	/	MQEL-EQ-9	U Test	الفيزيائي Physical	فحوصات الاسمنت Cement Test
10	جهاز فايكت vicat apparatus	/	MQEL-EQ-10	Dinc Makina	الفيزيائي Physical	فحوصات الاسمنت Cement Test
11	حوض معالجة Curing tank	21/002959	MQEL-EQ-11	U Test	الفيزيائي Physical	فحوصات الكونكريت Concrete Test
12	هزاز مناخل Sieve shaker	/	MQEL-EQ-20	Dinc Makina	الفيزيائي Physical	فحوصات التربة Soil Test
13	هزاز مناخل Sieve shaker	21/002796	MQEL-EQ-21	U Test	الفيزيائي Physical	فحوصات التربة Soil Test
14	جهاز فحص القص ثلاثي المحاور Triaxial Shear test	/	MQEL-EQ-22	U Test	الفيزيائي Physical	فحوصات التربة Soil Test

	شركة المقياس للخدمات الهندسية والتجارة العامة المحدودة	FO 5-5/1	الرمز
	قائمة الاجهزة المختبرية والصور	2 of 11	رقم الصفحة
		ISO/IEC17025	المواصفة

15	جهاز فحص الانضمام للتربة Consolidation Test apparatus	/	MQEL-EQ-23	U Test	الفيزيائي Physical	فحوصات التربة Soil Test
16	جهاز فحص القص للتربة Direct shear machine	340184	MQEL-EQ-24	Dinc Makina	الفيزيائي Physical	فحوصات التربة Soil Test
17	جهاز فحص قوة التحمل الكاليفورني (CBR) Digital CBR testing machine (50 KN)	340143	MQEL-EQ-25	Dinc Makina	الفيزيائي Physical	فحوصات التربة Soil Test
18	جهاز فحص الـ CBR الموقعي In situ CBR test apparatus	/	MQEL-EQ-26	U Test	الفيزيائي Physical	فحوصات التربة Soil Test
19	مايكرو اوفن Micro oven	21 10084504	MQEL-EQ-27	U Test	الفيزيائي Physical	فحوصات التربة Soil Test
20	فرن حرق Furnace	21/002804	MQEL-EQ-28	U Test	الفيزيائي Physical	فحوصات التربة Soil Test
21	فرن Oven 125 lt	340188	MQEL-EQ-29	Dinc Makina	الفيزيائي Physical	فحوصات التربة Soil Test
22	فرن Oven 700 lt	21/002912	MQEL-EQ-30	U Test	الكيميائي Chemical	فحوصات التربة Soil Test
23	ميزان 30 كيلو Weighing balance 30kg	Necklife DVLAL 20206123	MQEL-EQ-31	Necklife	الاسفلت Asphalt	فحوصات الاسفلت Asphalt Test
24	ميزان 30 كيلو Weighing balance 30kg	Necklife terazi DVLAL 20206124	MQEL-EQ-32	Necklife	الفيزيائي Physical	فحوصات التربة Soil Test
25	ميزان حساس 3 كيلو Weighing balance 30kg	DVLAL 20206123	MQEL-EQ-33	Necklife	الكيميائي Chemical	فحوصات التربة Soil Test
26	جهاز فحص اللدونة Liquid & plastic limit set	/	MQEL-EQ-34	Dinc Makina	الفيزيائي Physical	فحوصات التربة Soil Test
27	مطرقة بروكتر و CBR Procter & CBR hammer	340161	MQEL-EQ-35	Dinc Makina	الفيزيائي Physical	فحوصات التربة Soil Test
28	قدمة قياس الكترونية طول 300 ملم Verner caliper 300mm	07414226	MQEL-EQ-36	Mitutoyo	الفيزيائي Physical	فحوصات الكونكريت Concrete Test
29	سيت مناخل متكامل Sieve Set ASTM	/	MQEL-EQ-37	U Test	الفيزيائي Physical	فحوصات التربة Soil Test
30	سيت مناخل متكامل Sieve Set ASTM	/	MQEL-EQ-38	U Test	الفيزيائي Physical	فحوصات التربة Soil Test
31	سيت مناخل Sieve Set BS	/	MQEL-EQ-39	Dinc Makina	الفيزيائي Physical	فحوصات التربة Soil Test
32	مرطاب Humidifier DT-2	/	MQEL-EQ-40	Elitech	الفيزيائي Physical	/

	شركة المقياس للخدمات الهندسية والتجارة العامة المحدودة	FO 5-5/1	الرمز
	قائمة الاجهزة المختبرية والصور	3 of 11	رقم الصفحة
		ISO/IEC17025	المواصفة

/	غرفة النماذج Sampling Room	Elitech	MQEL-EQ-41	/	مرطاب Humidifier DT-2	33
فحوصات التربة Soil Test	الفيزيائي Physical	U Test	MQEL-EQ-42	/	مخروط رملي Sand Cone	34
فحوصات التربة Soil Test	الفيزيائي Physical	U Test	MQEL-EQ-43	/	مخروط رملي Sand Cone	35
فحوصات الكونكريت Concrete Test	الفيزيائي Physical	UNI-T	MQEL-EQ-44	H150800432	محرار ليزري Thermometer 300 c	36
فحوصات الكونكريت Concrete Test	الفيزيائي Physical	U Test	MQEL-EQ-45	/	جهاز فحص الفراغات الهوائية Air content in concrete	37
فحوصات التربة Soil Test	الفيزيائي Physical	U Test	MQEL-EQ-46	/	جهاز فحص القص للتربة Vane shear set	38
فحوصات الاسفلت Asphalt Test	الاسفلت Asphalt	U Test	MQEL-EQ-47	21/002795	حمام مائي Water bath	39
فحوصات الاسفلت Asphalt Test	الاسفلت Asphalt	U Test	MQEL-EQ-48	21/002806	جهاز فحص ثبات مارشال Marshal Stability	40
فحوصات الاسفلت Asphalt Test	الاسفلت Asphalt	U Test	MQEL-EQ-49	21/002776	لوس أنجلوس Los Angeles	41
فحوصات الاسفلت Asphalt Test	الاسفلت Asphalt	U Test	MQEL-EQ-50	/	اطار ميزان الوزن النوعي Specific weighing scale frame	42
فحوصات الاسفلت Asphalt Test	الاسفلت Asphalt	U Test	MQEL-EQ-51	21/002805	مطرقة مارشال Marshal hammer	43
فحوصات الاسفلت Asphalt Test	الاسفلت Asphalt	U Test	MQEL-EQ-52	21/002794	جهاز فحص الفراغات الهوائية Air void test device	44
فحوصات التربة Soil Test	الفيزيائي Physical	Mitutoyo	MQEL-EQ-53	414860	مبين قياس Dial Gauge	45
فحوصات التربة Soil Test	الفيزيائي Physical	Mitutoyo	MQEL-EQ-54	421716	مبين قياس Dial Gauge	46
فحوصات التربة Soil Test	الفيزيائي Physical	Mitutoyo	MQEL-EQ-55	921236	مبين قياس Dial Gauge	47
فحوصات الكونكريت Concrete Test	الفيزيائي Physical	U Test	MQEL-EQ-60	/	جهاز فحص الكور للكونكريت Core cutter	48
فحوصات الكونكريت Concrete Test	الفيزيائي Physical	U Test	MQEL-EQ-61	/	جهاز فحص مطرقة شميت Schmidt Hammer	49
فحوصات الكونكريت Concrete Test	الفيزيائي Physical	U Test	MQEL-EQ-62	/	جهاز فحص موجات فوق الصوتية للخرسانة Ultra-Sonic device	50
فحوصات التربة Soil Test	/	/	MQEL-EQ-63	/	جهاز فحص تحمل الصفيحة للتربة Plate Load	51

	شركة المقياس للخدمات الهندسية والتجارة العامة المحدودة	FO 5-5/1	الرمز
	قائمة الاجهزة المختبرية والصور	4 of 11	رقم الصفحة
		ISO/IEC17025	المواصفة

فحوصات اللحام Welding Test	الميكانيكي Mechanical	/	MQEL-EQ-64	/	جهاز الفحص المغناطيسي Magnetic Test	52
فحوصات اللحام Welding Test	الميكانيكي Mechanical	/	MQEL-EQ-65	/	معدات فحص الإصباغ النافذة Penetration Test	53
فحوصات اللحام Welding Test	الميكانيكي Mechanical	/	MQEL-EQ-66	/	جهاز فحص بالموجات فوق الصوتية Ultra-Sonic Test	54
فحوصات اللحام Welding Test	الميكانيكي Mechanical	/	MQEL-EQ-67	/	جهاز فحص الأشعة السينية Radiographic Test	55
فحوصات اللحام Welding Test	الميكانيكي Mechanical	/	MQEL-EQ-68	/	جهاز فحص الاختبار البصري Visual Test	56
فحوصات الركائز Piles Test	الميكانيكي Mechanical	امريكي USA	MQEL-EQ-69	/	جهاز فحص سلامة الركائز (Integrity Test)	57
فحوصات الركائز Piles Test	الميكانيكي Mechanical	امريكي USA	MQEL-EQ-70	/	جهاز فحص الديناميكي للركائز Dynamic Test	58
فحوصات الركائز Piles Test	الميكانيكي Mechanical	امريكي USA	/	/	جهاز فحص التحمل الاستاتيكي Static Test للركائز	59



	شركة المقياس للخدمات الهندسية والتجارة العامة المحدودة	FO 5-5/1	الرمز
	قائمة الاجهزة المختبرية والصور	5 of 11	رقم الصفحة
		ISO/IEC17025	المواصفة



	شركة المقياس للخدمات الهندسية والتجارة العامة المحدودة	FO 5-5/1	الرمز
	قائمة الاجهزة المختبرية والصور	6 of 11	رقم الصفحة
		ISO/IEC17025	المواصفة



	شركة المقياس للخدمات الهندسية والتجارة العامة المحدودة	FO 5-5/1	الرمز
	قائمة الاجهزة المختبرية والصور	7 of 11	رقم الصفحة
		ISO/IEC17025	المواصفة



	شركة المقياس للخدمات الهندسية والتجارة العامة المحدودة	FO 5-5/1	الرمز
	قائمة الاجهزة المختبرية والصور	8 of 11	رقم الصفحة
		ISO/IEC17025	المواصفة



	شركة المقياس للخدمات الهندسية والتجارة العامة المحدودة	FO 5-5/1	الرمز
	قائمة الاجهزة المختبرية والصور	9 of 11	رقم الصفحة
		ISO/IEC17025	المواصفة



	شركة المقياس للخدمات الهندسية والتجارة العامة المحدودة	FO 5-5/1	الرمز
	قائمة الاجهزة المختبرية والصور	10 of 11	رقم الصفحة
		ISO/IEC17025	المواصفة



	شركة المقياس للخدمات الهندسية والتجارة العامة المحدودة	FO 5-5/1	الرمز
	قائمة الاجهزة المختبرية والصور	11 of 11	رقم الصفحة
		ISO/IEC17025	المواصفة

