



مختبر ابتكار المواد والمعرفة
للفحوصات الانشائية



Company
Profile

About Us

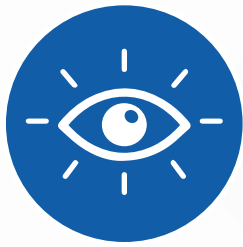
MIK Lab. for Engineering Tests is an Iraqi entity specializing in engineering inspections, testing, assessments, and consultancy services across structural, mechanical, and electrical disciplines. The laboratory operates within a specialized professional framework and is registered with the Iraqi Engineers Union, reflecting its role as a specialized engineering entity in this field.

We combine engineering expertise with technical capabilities to deliver inspection, assessment, and consultancy services in accordance with the specific technical requirements of each project, with particular emphasis on the accuracy of results, the integrity of procedures, and the clarity of reports and deliverables. Our working environment is built around the integration of diverse engineering disciplines, enabling us to effectively address the varied technical requirements of projects and facilities.

Customer satisfaction and the continuity of professional partnerships are among our top priorities, alongside maintaining consistent standards of quality and commitment in every engagement. We strive to make every professional relationship the foundation for lasting collaboration built on trust, clear requirements, and fulfillment of agreed commitments.



Our Vision



To be a trusted engineering reference in testing and technical assessments, transforming accurate engineering data into knowledge that supports safer, more efficient, and sustainable decisions.

Our Mission



We are committed to delivering real engineering value that begins with understanding the problem, extends through verification and analysis, and culminates in clear, reliable technical decisions.



Our Objectives

01



Activating integration between engineering disciplines to enable the comprehensive handling of technical requirements associated with projects from an integrated structural, mechanical, and electrical perspective

02



Enhancing customer satisfaction and maintaining lasting partnerships by providing organized services with clear requirements, consistent standards, and a focus on the needs of each project

03



Expanding our expertise and engineering disciplines to support the laboratory's ability to handle a wider range of diverse and complex requirements and projects

04



Developing technical and knowledge-based capabilities and keeping pace with modern technologies and practices in the fields of testing, inspection, and engineering assessment

05



Building an adaptable work system that integrates human expertise, technical capabilities, and organized procedures to ensure sustainable performance and enhance operational efficiency



Our Values

01

Accuracy & Reliability

02

Integrity & Objectivity

03

Professionalism
& Responsibility

04

Safety & Commitment

05

Development &
Innovation

OUR SERVICES

Structural Testing and Consultancy

01



Structural Materials Inspection and Testing:

We conduct technical tests on materials used in construction works to verify their properties and compliance with approved specifications and technical requirements. The service covers the assessment of materials such as concrete, cement, aggregates, soil, and other materials related to construction works, in accordance with the nature of the project and testing requirements. The results of these tests contribute to verifying material quality before use or during construction, supporting acceptance and handover decisions, and enabling the early detection of any variations or deficiencies that may affect the structural performance of the project.



Inspection and Assessment of Concrete and Existing Structures

We assess the condition of existing concrete elements and structures using inspection methodologies appropriate to the nature and condition of the structure. The objective is to determine the level of performance and identify signs of damage, deterioration, or defects that may affect structural safety and efficiency. The scope includes visual inspection, destructive and non-destructive testing when required, analysis of results, and correlation with the actual condition of the elements, culminating in a technical report outlining the observations, findings, and necessary recommendations.



Our Services



Non-Destructive Testing of Structural Elements

We use non-destructive testing techniques to obtain technical indicators regarding the condition of structural elements without materially affecting the safety or functionality of the element. These tests help assess uniformity, detect certain internal defects, and identify indicators related to concrete quality or the condition of structural elements, while interpreting the results within the appropriate engineering context and avoiding reliance on a single reading in isolation from the other available data



Soil and Foundation Testing

We analyze soil properties at project sites to determine their suitability for construction works and foundations and to provide the technical data required for engineering studies and designs. This includes evaluating soil properties, bearing capacity, and behavior under loads, as well as studying factors that may affect the stability of foundations and earthworks. The results are used to determine the appropriate technical requirements and support design and construction decisions





Our Services



Assessment of Structural Defects and Problems

We diagnose deficiencies and defects that appear in structures, such as cracks, settlement, separations, surface deterioration, and other indicators that may require specialized engineering assessment. The assessment is based on studying the nature, location, and extent of the defect and the potential factors associated with it, while analyzing available test results and correlating them with the structural condition, leading to technical recommendations that help determine the appropriate course of action for repair, remediation, or monitoring



Structural Consultancy and Assessments

We provide specialized engineering consultancy services to support project owners, consultants, and contractors in matters related to structures and structural elements, whether during the design and construction stages or when assessing existing structures. This includes investigating technical problems, reviewing test results, analyzing field observations, and providing technical opinions and appropriate recommendations based on the project's data and requirements.





02

Mechanical Testing and Consultancy

01 Inspection and Assessment of Mechanical Systems and Equipment

We inspect mechanical equipment and systems in accordance with the nature of each project and its operational requirements, with a focus on technical condition, performance, efficiency, and the extent to which components comply with design and operational requirements. Inspection and assessment activities help identify indicators of malfunction or reduced efficiency, support acceptance, commissioning, and maintenance activities, and provide technical data that can be relied upon when making decisions related to equipment and systems

02 Mechanical Engineering Consultancy

We support projects with mechanical consultancy services covering the study of systems and equipment, analysis of technical requirements, and provision of appropriate recommendations based on the nature and use of the facility. The consultancy aims to improve engineering selections, enhance system efficiency, and reduce operational issues, while taking into account safety, performance, and reliability requirements throughout the project lifecycle

03 Mechanical Systems Efficiency and Performance Assessment

We measure performance and efficiency indicators for mechanical systems according to the nature of each system and its operating conditions, and analyze the results to determine the extent to which actual performance meets the expected requirements. This service provides a technical basis for identifying areas for improvement and potential deficiencies, supporting enhanced operational efficiency, optimized resource consumption, and reduced unplanned downtime

03 Electrical Testing and Consultancy



Electrical Safety and Performance Assessment

We assess safety and performance indicators of electrical systems to identify observations or conditions that may affect operational stability or the safety of users and equipment. Assessment activities help identify potential hazards and technical deficiencies and provide practical recommendations for addressing observations and improving the level of protection and reliability of electrical systems



Electrical Engineering Consultancy

We develop engineering consultancy solutions in the electrical field to support projects throughout the design, construction, inspection, acceptance, and commissioning stages. Our solutions cover the study of technical requirements, review of proposed solutions and systems, and provision of recommendations that contribute to improving performance, safety, and reliability, while taking into account the nature of the facility, electrical loads, and operating conditions



Inspection of Electrical Systems and Installations

We test electrical systems and components to verify the safety of connections, operational condition, and compliance with applicable technical requirements. The service is carried out according to the nature of each project and includes reviewing components, connections, panels, circuits, and electrical systems, along with documenting technical observations and identifying areas that require corrective action or improvement



Our Services

04 Technical Reports and Studies

01 Preparation of Technical and Engineering Reports

We document the results of inspections and assessments in structured technical reports that include the scope of work, methodology followed, data and findings, technical observations, conclusions, and recommendations. We ensure that our reports are clear and easy to reference, accurately reflecting the actual inspection results without exaggeration or conclusions that are not supported by technical data

02 Technical Studies and Assessments for Projects

We prepare the technical studies and assessments required by projects to analyze the condition of elements, systems, or materials and provide a technical basis for making appropriate decisions. These studies rely on collecting and analyzing data and correlating the results with technical requirements, the nature of use, and operating conditions, helping to identify the most suitable alternatives and solutions for the project



Structural Laboratory Equipment

We equip structural inspection activities with specialized equipment that combines concrete core sampling with non-destructive testing methods to accurately assess the actual condition of concrete elements in accordance with sound technical practices. These capabilities support the collection of reliable data for structural condition assessment and the preparation of reports and recommendations based on actual test results, including:

Portable Coring Machine: Used to extract cylindrical concrete core samples for laboratory testing and assessment of concrete properties.

Ultrasonic Tester for Concrete: Used for non-destructive testing to assess concrete uniformity and detect certain internal defects or variations.



Portable Coring Machine



Ultrasonic Tester



Specific Gravity Frame



Water Bath



Laboratory Equipment



Universal Sample Splitter



Laboratory Drying
700Lt Lab. Oven



Concrete Curing Tank



Concrete Slump Test Set



Concrete Test Hammer



Plastic Cube Moulds (15*15*15)



Laboratory Equipment



Cement Fineness Testing Apparatus



Set of 15 Sieves



Automatic Soil Compactor



LOS Angeles Abrasion Tester



Modified Proctor Mould



Soil Core Cutter Set



Laboratory Equipment



Sieve Shaker



PrecisionBalance 300g/0.001g



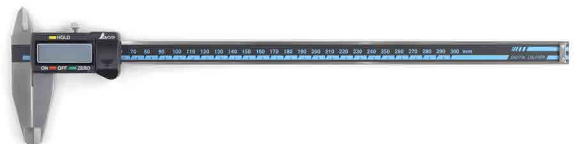
Digital Vernier Caliper 15 cm



Standard Proctor Mould



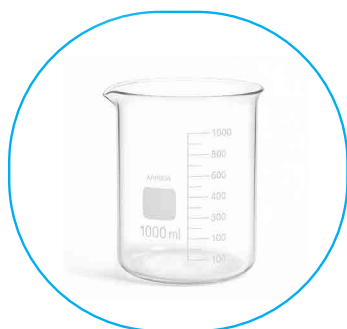
CBR (California Bearing Ratio)
Test Device



Digital Vernier Caliper 30 cm

CHEMICAL LABORATORY EQUIPMENT AND TOOLS

Our laboratory equipment represents one of our key operational strengths. We operate a well-equipped chemical laboratory featuring a diverse range of specialized equipment and tools that enable us to meet chemical testing and analysis requirements with efficiency and accuracy.



Glass Beaker
1000 ml



Flask Shaker



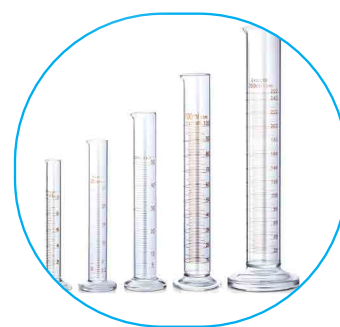
Hot Plate



Conical Flask
1-Liter



Potassium Chromate
500 g



Glass Cylinders in Various Sizes
(1000-500-250-100)



Plastic Wash Bottle



Heat-Resistant Gloves

EQUIPMENT AND TOOLS

And other equipment, including a range of laboratory



opaque bottles in
200 liter



opaque bottles in
100 liter



opaque bottles in
1-liter



measuring tools



porcelain crucibles



glass beakers



Quality Policy

We are committed to providing engineering testing and consultancy services that achieve the highest levels of accuracy, objectivity, and reliability through the application of structured procedures for planning, inspection, measurement, results analysis, and report preparation. We strive to ensure data integrity and the quality of technical deliverables, while complying with the requirements, specifications, and standards relevant to the scope of work. We also continuously review our work methods and develop our technical competencies to enhance the quality of the services we provide



Occupational Health and Safety

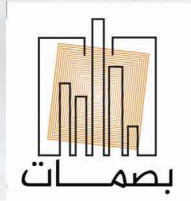
We place occupational health and safety among our highest priorities when carrying out all inspection, consultancy, and field visit activities. We work to provide a safe working environment for engineers, technicians, workers, and all personnel interacting with project sites. We are committed to identifying potential hazards before commencing work, implementing appropriate control measures, using personal protective equipment suitable for the nature of each task, and complying with safety instructions and site requirements. We also ensure the safe handling of equipment and devices and maintain safe working conditions across all work areas





Our Clients

الحامم
للإستثمارات العقارية والسياحية



مكتب المهندس الإستشاري
عبدالله بن سبيح
للتصاميم والإستشارات الهندسية



مختبر ابتكار المواد والمعرفة للفحوصات الانشائية



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