

Company Profile

Engineering Consultant
Bureau, Basra.

2023 - 2024



Many fields
Engineering, Chemical, and Electrical

More than 5 types
Of laboratory and testing examinations

Index

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This profile provides an overview of the Engineering Consultancy Office and its relationship with the University of Basra, detailing its administrative and organizational structure, the services it offers, and the locations where these services are provided.

About the Office

Office Name:

Engineering Consultant Bureau

Speciality:

Consultancy services in all engineering specialties

Address:

College of Engineering - University of Basra - Karma Ali Campus

Chairman of the Board of Directors:

Dean of the College of Engineering at the University of Basra

Director of the Office:

A faculty member at the College of Engineering, University of Basra

Board of Directors Office:

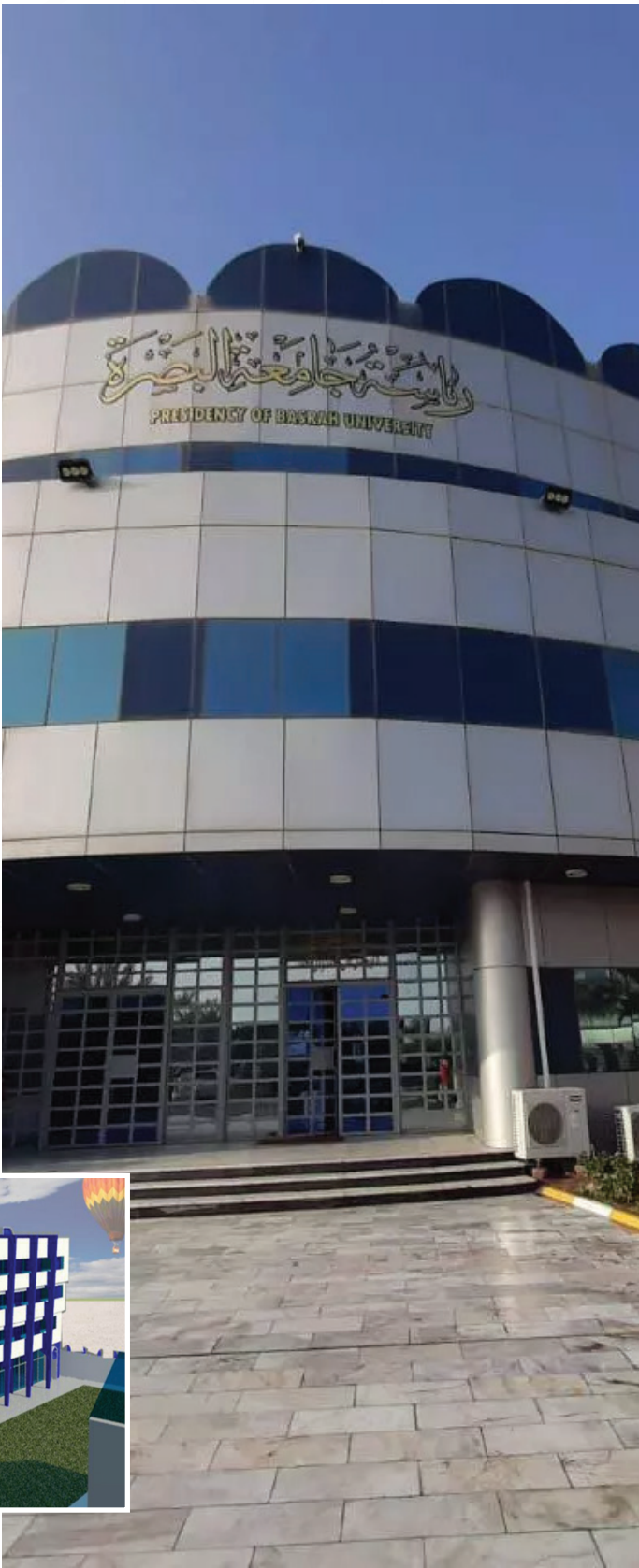
a group of faculty members at the College of Engineering, University of Basra

The goal of our office:

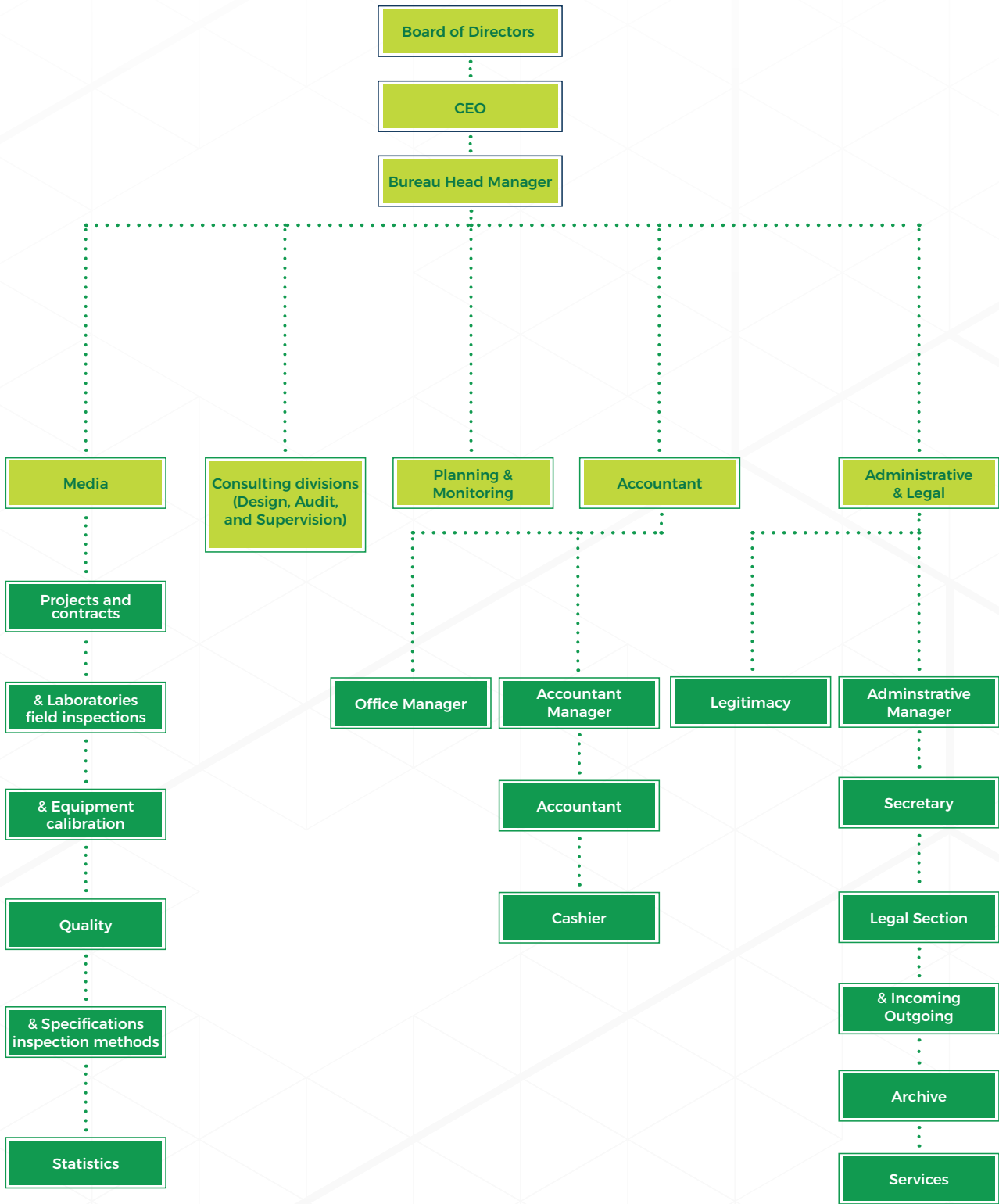
Community service through the practice of consultancy activities in all engineering specialties for public and private sector institutions, organizing specialized scientific courses to qualify personnel in various fields. The Engineering Consultancy Office employs groups of experienced researchers and consultants in different specialties.

Introduction

The Engineering Consulting Office of the University of Basra was established in 1980 according to Law No. (64) of 1979 for Engineering Offices and Consultancies under the Ministry of Higher Education and Scientific Research, aiming to activate the role of science and scientists in the process of building and developing the country. It seeks to maximize the utilization of scientific research to serve society, utilize the capabilities of university professors, enhance their practical and field experience, and prepare distinguished local scientific cadres among university staff to support the implementation of developmental plans for community development. Since then, the office has played a leading role in the field of designs and has provided all consulting services to the general southern region of Iraq. While affiliated with the University of Basra, the Engineering Consulting Office operates with full administrative and financial independence, drawing its technical and human resources from those available at the College of Engineering and the university.



Organizational Structure



Office management:

The office is supervised and managed by a board of directors composed of faculty members from the College of Engineering. The board is chaired by the Dean of the College of Engineering, and the office director is elected from among the board members. The diagram below illustrates the administrative structure of the office.



The **best choice** for engineering inspections.



We distinguish ourselves with our hierarchical and sequential administrative structure, enabling us to make appropriate decisions at the right time and place, and at minimal costs.

Distinguished and fully equipped staff.

In the Engineering Consulting Bureau, we appoint the most qualified experienced professionals to achieve optimal and sustainable results.

Our Services

Preparation of engineering designs, engineering supervision, preparation of engineering treatments, engineering consultations and assessments, laboratory and field tests, soil investigations, mechanical, electrical, and chemical tests, electrical and mechanical designs, preparation of engineering estimates, designs of concrete and asphalt mixes, validation and auditing of designs, preparation of engineering reports and studies, non-destructive testing of concrete (ultrasonic and hammer), specification compliance, preparation of environmental impact reports, preparation of economic feasibility studies, conducting tests for concrete piles (Integrity, Cross-Hole, Loading), and conducting specialized engineering courses in all fields.

The activities of the Engineering Consulting Office cover a wide range of

Preparation of engineering designs, engineering supervision, preparation of engineering treatments, engineering consultations and assessments, laboratory and field tests, soil investigations, mechanical, electrical, and chemical tests, electrical and mechanical designs, preparation of engineering estimates, designs of concrete and asphalt mixes, validation and auditing of designs, preparation of engineering reports and studies, non-destructive testing of concrete (ultrasonic and hammer), specification compliance, preparation of environmental impact reports, preparation of economic feasibility studies, conducting tests for concrete piles (Integrity, Cross-Hole, Loading), and conducting specialized engineering courses in all fields.



01

Civil Works



06

Marine Engineering Services



We provide a variety of services and tests.

02

Materials Engineering



03

Architecture Services



07

Telecommunication Works



04

Chemical Engineering Services



08

Computer Engineering Services



05

Electrical Engineering Services

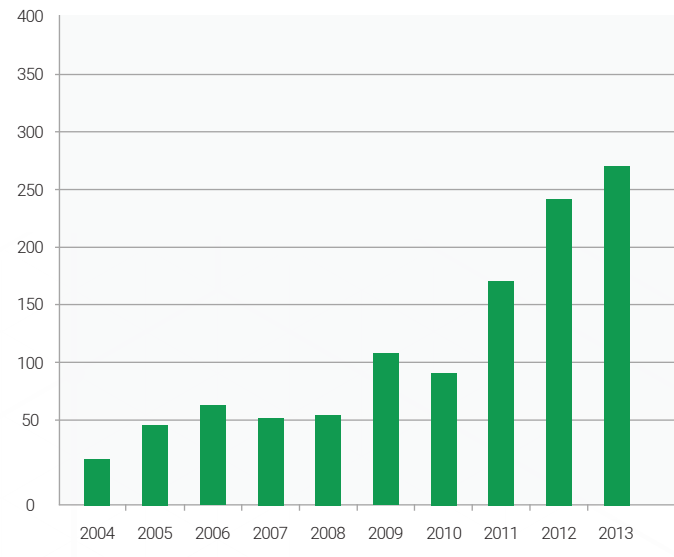


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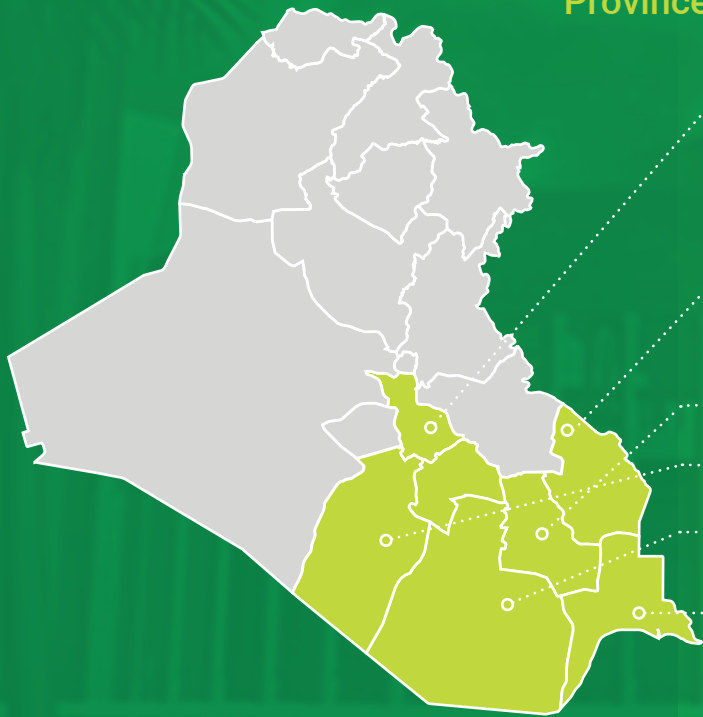
Petroleum Engineering Services

The provinces covered by our services

The office is proud to provide consulting services to the entire southern region of the country. The following figure shows the cities where consulting projects have been completed.



Provinces that are covered by our services:



- Babylon
- Misan
- Dhi Qar
- Najjaf
- Muthana
- Basra

Our Clients

The Engineering Consulting Office has distinguished itself by providing consulting services to foreign companies through contracts signed with these companies. Below, we list the names of some of these companies:

Foreign Companies we deal with:

- METKA (Greek)
- Alphaconsult
- Bamboosh (Indian)
- TEX (Austrian)
- Dorçe (Turkish)
- EID (Turkish)
- STX (Korean)
- Anka (Turkish)
- Global
- Al Samama (Jordanian)
- Bureau Veritas
- Biok
- Anhui (Chinese)
- Gung (Turkish)
- BP
- Allore
- Amaish (Iranian)
- Offshore (Lebanese)
- Al Osb (Emirati)
- Fluor (American)
- ENI (Italian)

Examination

Engineering Examinations

#	Type of Test:	Speciality
1	Maximum Dry Density (Proctor)	Civil Engineering
2	On-site Soil and Subbase Density	Civil Engineering
3	California Bearing Ratio (CBR)	Civil Engineering
4	Gradation for Sand, Gravel, and Subbase	Civil Engineering
5	Asphalt Test	Civil Engineering
6	Mastic Test	Civil Engineering
7	Flankote Test	Civil Engineering
8	Triaxial Test for Soil	Civil Engineering
9	Unconfined Compression Test for Soil	Civil Engineering
10	Consolidation Test for Soil	Civil Engineering
11	Felt Test	Civil Engineering
12	Asphalt Core	Civil Engineering
13	(Plasticity Index and Liquid Limit (LL, PL	Civil Engineering
14	Asphalt Mix Test	Civil Engineering
15	Integrity Test for Concrete Piles	Civil Engineering
16	Load Test for Concrete Piles	Civil Engineering
17	Cross-Hole Test for Concrete Piles	Civil Engineering
18	Plate Load Test for Soil	Civil Engineering
19	Soil Investigations	Civil Engineering



Mechanical Examinations

#	Type of Test:
1	Tensile testing of all types of steel, including reinforcement steel, in all sizes and diameters
2	Tensile testing of steel sections for all thicknesses from 1 mm
3	Tensile testing of steel sections thicker than 16 mm
4	Hardness testing
5	Bending test
6	Torsion test
7	Impact test
8	Tensile testing of prestressed bridge strands
9	Bolt tension test
10	Bolt hardness test
11	Screw thread strength test
12	Chemical composition analysis of screws
13	Chemical composition analysis of all metals
14	Microstructural analysis
15	Dimensional inspection of plastic and steel pipes
16	Internal pressure test of plastic and steel pipes
17	External pressure test of plastic and steel pipes
18	Tensile testing of plastic and steel pipes
19	Ductile iron pipes testing (tensile, hardness, dimensions, coating thickness)
20	Dimensional inspection

#	Type of Test:
21	Bridge crane inspection
22	Cork inspection
23	Iron weight inspection (kg/m)
24	Density test
25	Glycol degree inspection
26	Water stop inspection
27	Tensile test for BRC steel mesh
28	Welding wire tensile test
29	Rubber pads inspection for bridges
30	Cathodic protection electrodes inspection of all types
31	Weld inspection (visual, dye penetrant, ultrasonic waves)
32	Welders inspection (PQR)
33	GRP pipes inspection



Electrical Examinations

#	Materials Tested	Type of Test:
1	Electrical connectors and terminals	Insulation testing , Dimensional inspection of connectors according to international standards
2	Electrical insulators	Electrical insulation testing
3	Circuit breakers	Breakdown time testing using a primary current injection device , Electrical insulation testing
4	Soil (in electrical context)	Breakdown time testing using a primary current injection device
5	Electrical grounding	Specific resistance testing
6	Electrical transformers	Oil insulation testing , Coil insulation testing

Chemical Examinations

#	Type of Test:
1	Density testing of petroleum products
2	Viscosity testing of all petroleum products
3	Refractive index testing of all petroleum products
4	Ash content testing of all petroleum products
5	Color grade testing of all petroleum products
6	Organic element testing of petroleum products
7	Inorganic element testing of petroleum products
8	Tensile testing of prestressed bridge strands
9	Component analysis of petroleum products
10	Flash point testing of petroleum products
11	Sulfate content testing in construction materials
12	Chloride content testing in construction materials
13	Chemical properties testing of cement
14	Hydrostatic properties testing of polyethylene pipes
15	Water hardness testing

#	Type of Test:
16	Testing of dissolved chloride content in water
17	Testing of total acidity and alkalinity of water
18	Chemical and biological oxygen demand testing
19	Water conductivity testing
5	Total suspended solids testing in water
6	Carbon steel corrosion rate testing
7	Pressure gauge calibration
8	Efficiency testing of RO water desalination membranes
9	Corrosion-resistant paint efficiency testing
10	Testing of total dissolved salts content in water



15 Diffiremt
Mechanical Device Types

Available Equipment in
the Chemical Engineering
Laboratory:

#	Type of Device
1	UV-Vis Spectrophotometer
2	Gas Chromatograph
3	Conductivity Meter
4	Atomic Absorption Spectrometer
5	Total Dissolved Salts Meters
6	PH Meter
7	Oil Viscosity Meter
8	Petroleum Product Colorimeter
9	Density Meter for Petroleum Products and Oils
10	Refractometer
11	Chemical Demand Meter
12	Corrosion Rate Meter
13	Solar Radiation Intensity Meter
14	Water Turbidity Meter
15	Water Bottle Blowing Machine

25 Diffiremt
Mechanical Exam Types

Oil & Chemical Exams:

#	Type of Test:
1	Viscosity test
2	Viscosity index test
3	Density test
4	Flash point test
5	Haze point test
6	Water content test
7	Color test
8	Ash content test
9	Acidity test
10	Physical state test

Construction Material Exams:

#	Type of Test:
1	Chemical analysis of sand
2	Chemical analysis of gravel
3	Chemical analysis of subbase
4	Chemical analysis of soil
5	Chemical analysis of ceramics
6	Chemical analysis of stone
7	Chemical analysis of cement
8	Chemical analysis of paint
9	Chemical analysis of paint
10	Chemical analysis of moisture barrier

Water Exams:

#	Type of Test:
1	Water turbidity
2	Total dissolved salts
3	Acidity
4	Electrical conductivity
5	Total suspended solids
6	Dissolved oxygen
7	Chloride
8	Sulfates
9	Hardness salts
10	Na, Ca, K, Mg ions in water



Some of the equipment we have available for conducting the aforementioned tests:

The laboratories have played an active role in the development of the college's research output by conducting experiments and laboratory tests for a large number of researchers, professors, and both undergraduate and graduate students. These laboratories are periodically supervised by committees formed by the heads of the academic departments. These committees consist of competent professors with extensive experience in their fields of specialization. The laboratories are staffed by engineers and technicians who possess accumulated experience in performing various types of laboratory tests. Below is an overview of the scientific equipment available in each department of the college.



Hardness testing machine
Calculating hardness values for metals using Brinell and Vickers methods.



Optical microscope for examining the microstructure of metals
It's a type of microscope that uses light and a lens system to generate magnified images of metal surfaces. It is used to examine metals and engineering materials.



Impact testing machine for metallic materials
Determining material toughness, which is the resistance of a metal to fracture under sudden stress, involves assessing the energy absorbed in breaking a sample. It also provides insight into how the presence of cracks affects the material's resistance to impact loads (impact toughness).



Electric furnace for thermal processing labs
Conducting engineering inspections on metals following heat



A device that provides a measurement of surface
The device calculates surface smoothness.



Tensile testing machine
A device that provides mechanical properties of both metals and non-metals, with a measurement range of up to 20 kiloNewtons.



Creep testing machine
This device provides mechanical properties of metals and non-metals by applying a constant load and extracting the relationship between strain and time.



Slack checking device
It is used in mechanical design to calculate the number of fatigue cycles a metal can withstand under applied load.

Our Labs

The Civil Engineering Department at the College of Engineering, University of Basra, includes 9 labs and agencies.



The concrete laboratory

Students in the second stage are considered graduation projects for the fourth stage in various departments of the college, utilized by graduate students, faculty researchers, as well as students from other universities, who use one of the department's primary laboratories. Raw material tests for concrete, aggregate, cement, and additives are conducted, with concrete tests using standard inspection samples, field tests, and non-destructive testing.



Building Material Lab

The laboratory is used by undergraduate students in the first stage and graduate students. Additionally, the laboratory plays a crucial role in serving the community by conducting laboratory tests on construction materials (gypsum, terrazzo tiles, building units, precast concrete, bricks, etc.) used in various projects in both the public and private sectors.

Some of our lab devices



Flexural Strength Testing Machine



Compression Strength Testing Machine



Compression Strength Testing Machine for Cement and Mortar



Universal Testing Machine (UTM)



Tile and Concrete Block Abrasion Testing Machine.



Aggregate Sieve Shaker



Sand and Aggregate Density Weighing Scale



Concrete Compression Strength Coefficient

Some of our concrete devices



Cement Air Permeability Tester



Compression Strength Tester



Density Measurement Cylinder for Sand and Gravel



Slump Cone for Fresh Concrete



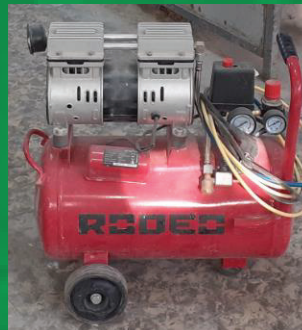
mixer



supersonic laboratory



jackhammer for concrete



Air compressor



Cement mixer



Dry oven



strain gauge



Rebar Detector and Cover Thickness Gauge



Aggregate Sample Divider



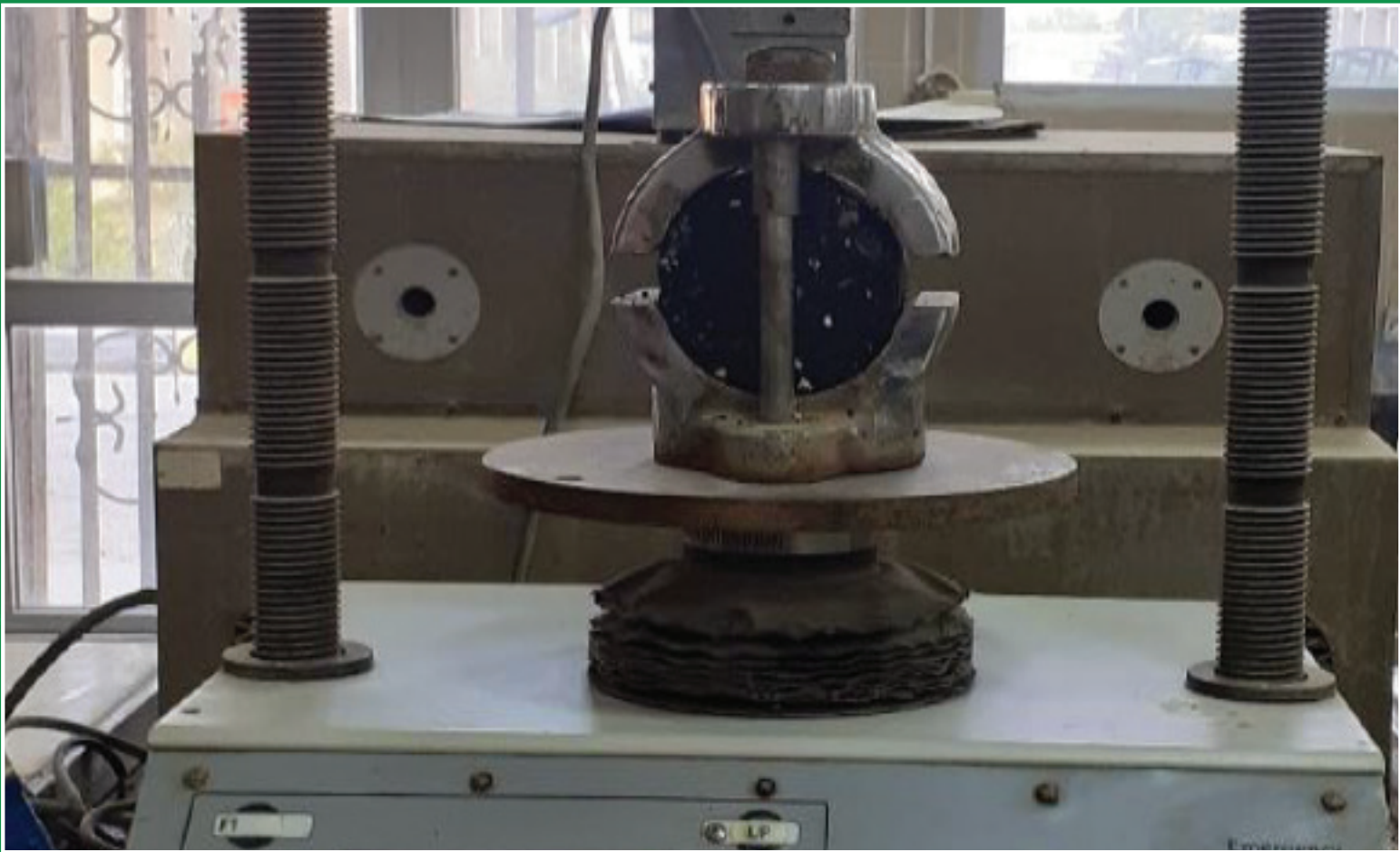
Cement Paste Cube Stacking Machine



Cylinder Cover Set



Reinforcement Detector



Flexural Strength Testing Machine



Compression Strength Testing Machine



Compression Strength Testing Machine



Compression Strength Testing Machine for Cement and Mortar



Abrasion Testing Machine for Tiles and Concrete Blocks



هزاز تحليل الركام



Aggregate Sieve Shaker



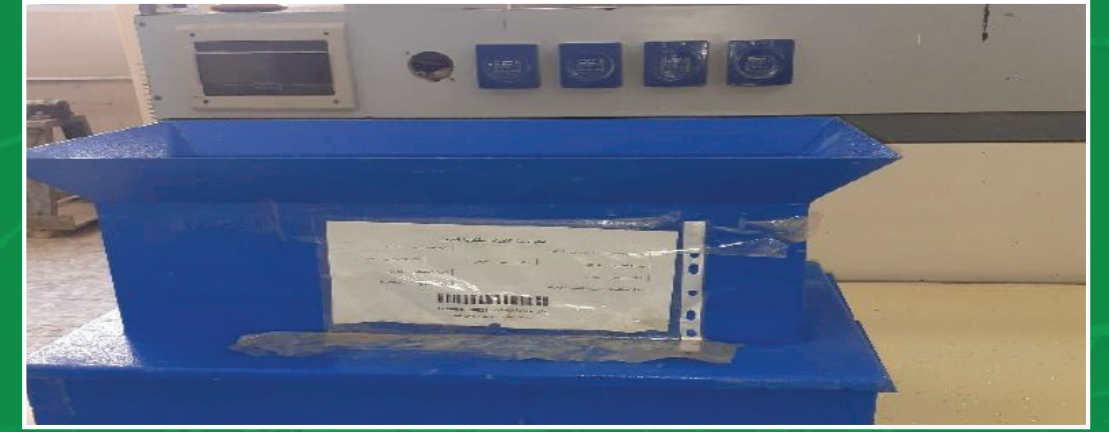
Concrete Compression Factor



Geotechnical Engineering Laboratory

The Soil Engineering Laboratory focuses on soil testing such as permeability and density using the sand cone method, liquid and plastic limits determination, sieve analysis for subgrade layers, and others. It also conducts field investigations on soil for both public and private sectors. The laboratory is utilized by third-year students, fourth-year graduation projects, graduate students, and faculty research.

We conduct
precise tests to
ensure the best
implementation



Direct Shear Apparatus for Soil



Device for Sedimentation of Clayey Soil



Soil Density Calculation Template



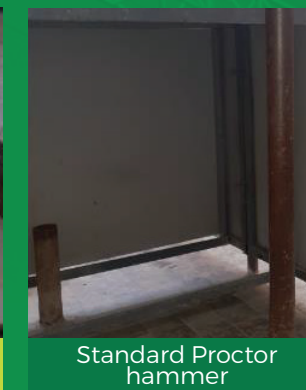
Sand Cone Test for Field Soil Density



Soil Plasticity Index Meter



Proctor mold



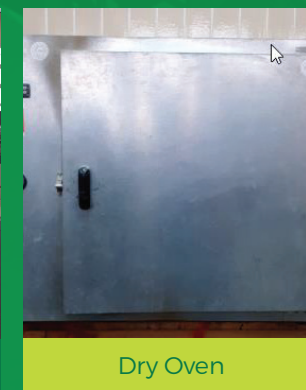
Standard Proctor hammer



Proctor Modified Device



CPR Device



Dry Oven



The vibrating table for testing using a hydrometer



Soil direct cut machine



Road Layers Laboratory

It is concerned with soil testing in the laboratory, such as permeability tests and density using the sand cone method, liquid limit and plastic limit measurements, sieve analysis of the subgrade, and more. Additionally, it involves field investigations of soil for both public and private sectors. The laboratory is used for third-year students, fourth-year graduation projects, postgraduate students, and faculty research



Asphalt Material Elasticity Machine



The Extraction Centrifuge



Marshall Stability Test



Gravel and Stone Crusher



Mobile High and Low Variation Detector



Automatic Marshall Compactor

Surveying Laboratory

It includes several devices such as the Dumpy leveling device, Laica Automatic, theodolite, TOPCON ES105 total station, and GPS system for accurate point monitoring. The laboratory is used for second-year students.



TOPCON ES 105 Total Station



Theodolite

A theodolite is used for measuring horizontal and vertical angles.

Levelling

The most commonly used type is the Dumpy Level, known for its lightweight when used for multiple point setups and transfers, as well as its accuracy, ease of operation, and easier horizontal leveling adjustment compared to older devices like the tilting level and the Laica automatic type.





Environmental Health Laboratory

The Environmental Health Laboratory includes a variety of chemical devices and equipment specialized in water testing for concrete mixtures, sewage, and soil. This laboratory primarily



Linking Device



Sewage Water Testing Device



Chlorine Dissolved Concentration Meter



Dissolved Oxygen Concentration Meter



Digital Response Slot



Biological Oxygen Demand (BOD) Testing Device



PH Measurement Device



أجهزة قياس الرقم الهيدروجيني



Oxygen Concentration Measurement Device



A device to measure fine turbidity of the table



The HQ40D portable PH meter



Molecular Weight Scale



Water Distillation Apparatus



Portable Spectrophotometer



Spectrophotometer



Colony Counter



Fluid Mechanics Laboratory

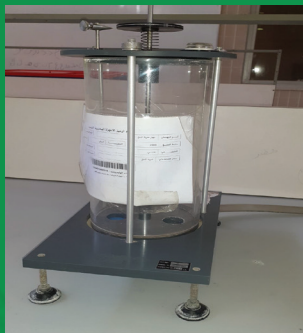
The Fluid Mechanics Laboratory conducts various experiments, including the effect of pressure center on submerged bodies, hydraulic jumps, flow over rectangular weirs, flow through orifices, and open and closed channel flows. It supports both second-year students and graduate students



Geology Lab

The laboratory studies the physical properties of metals and various structures of volcanic, sedimentary, and metamorphic rocks. It examines soil layers for engineering suitability and deals with topographic maps.

Here are some of the devices in the Fluid Mechanics Laboratory:



Digital Displacement Transducer



Flow Over a Triangular Weir



Flow Over a Rectangular Weir



Hydraulic Jump Apparatus



Manning Tester



Bernoulli Gauge



Energy Loss in Pipes Apparatus



Flow Initiation Device



Volcanic Rocks



Volcanic Rocks



Samples of Rocks and



Samples of Rocks and Minerals



Computer Lab

The laboratory includes a computer-equipped hall for studying engineering software and programming languages, primarily catering to first, second, and third-year graduate students



Mechanical and Metallurgical Engineering Testing Laboratory

The Mechanical Engineering Testing Laboratory at the College of Engineering, operational since 2004, is renowned for its precise and clear testing services. They have earned a leading position in material testing and analysis through dedicated efforts and a commitment to quality. Located in Southern Iraq, they adhere to international standards in their testing and analysis processes. Their team of experienced professionals manages state-of-the-art testing equipment, ensuring they meet the diverse testing needs of metals, alloys, polymers, and more. Dr. Hasnin Ibrahim Khalaf, specializing in fracture mechanics, leads the department with over 15 years of experience in testing and quality assurance. Dr. Mortada Ali Al-Maliki, a faculty member specializing in engineering materials, supervises the laboratory with over 20 years of experience in testing and quality assurance. They maintain ISO/IEC 17025:2017 certification to ensure customer satisfaction and continuous improvement in their services.

Basic Info

Nature of the field	Mechanical and Metallurgical Engineering Testing
Registered address	Mechanical Engineering Department / College of Engineering (Qarma Ali Branch), Basra, Iraq
Number of employees	10
Year of establishment	2004
Legal status	Public sector institution

Quality Assurance

Our laboratory is accredited by the Iraqi Accreditation Authority and specializes in providing customized solutions for our diverse clientele. Our supervisory team inspects each testing process to ensure error-free procedures. Our equipment is calibrated annually by professional committees to guarantee the quality of tests provided. All tests conducted by our professionals adhere to international standards.

The following standards are followed for product quality testing:

- ◆ ASTM
- ◆ JIS
- ◆ EU
- ◆ ISO
- ◆ BS
- ◆ UN



Our Team

Your experienced team includes talented industrial experts with a comprehensive understanding of testing operations. They aim to meet customer needs through deep understanding and dedication, providing a wide range of testing solutions. Staff members undergo continuous training programs to stay updated with the latest developments in various testing operations and standards.

Our workforce contains:

- ◆ Scientists
- ◆ Quality managers
- ◆ Mechanical Engineers
- ◆ Lab Technicians
- ◆ Mechanical Technicians

Departmental tests

Tensile Test

We determine the mechanical properties of various materials such as flexural strength, ultimate tensile strength, elongation, etc., using carefully designed laboratory testing methods, data analysis, and expert interpretation. This is done using the calibrated computerized tensile testing machine depicted in Figure (1), model INSTRON, made in the USA, model 600DX with a maximum capacity of 600 kilonewtons.

Hardness Test

Our laboratory uses calibrated hardness measurement devices to accurately measure the resistance of materials to local plastic deformation, including:

- Rockwell Hardness Test
- Vickers Hardness Test

Impact Test

The impact test evaluates a material's ability to withstand sudden changes or impact loads, helping to determine its transition temperature from ductile to brittle behavior. This assists in understanding material behavior in low-temperature applications. Our testing laboratory is equipped to perform these tests across a range of temperatures, from room temperature to as low as -60 degrees Celsius.



Corrosion Testing

Expansion of our corrosion testing services focuses on providing early detection of corrosion and minimizing material failures under corrosive conditions. This is crucial across various industries, particularly in oil and gas fields where corrosion impact is significant. Testing these materials before installation is a prudent choice. Therefore, we recommend conducting corrosion testing and proper assessment by our team according to recognized standards.



Chemical analysis

Testing material composition is crucial for understanding mechanical properties. Optical Emission Spectroscopy (PMI/OES) plays a vital role in determining the chemical composition of both ferrous and non-ferrous metals. PMI-OES testing on-site provides an advantage for testing materials with complex shapes. Our SPECTRO Optical Emission Spectrometer performs this analysis effectively.



Metal testing

Specialists in our laboratory offer complex metal analyses both on-site and in the lab tailored to our clients' needs. We specialize in microscopic analysis, metallurgy, fracture mechanics, scanning electron microscopy, energy-dispersive analysis, case studies, investigation, and metallurgical consulting. Clients benefit from expert evaluation and advice in areas such as cracking, deformation, fatigue, corrosion, damage, pollution (trace analysis), corrosion monitoring, materials, and more. We provide detailed metal testing and failure investigations, helping to identify failure causes from a metallurgical perspective.

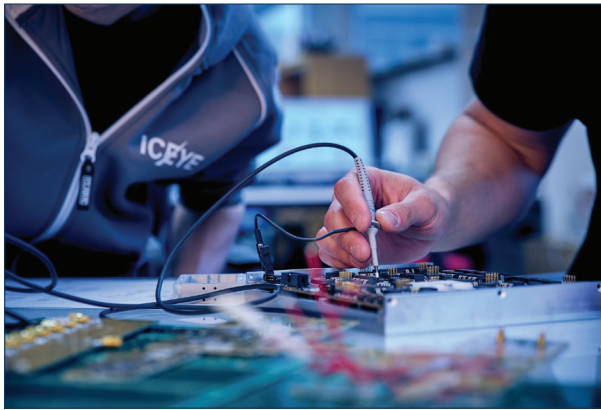
- ◆ Ferrite Count Test.
- ◆ Welding Properties.
- ◆ Penetration Depth.
- ◆ Fusion Zone Size and Pass Count.
- ◆ Heat Affected Zone (HAZ).
- ◆ Grain Size.
- ◆ Ferrite Determination and Sigma Phase.
- ◆ Heat Treatment Evaluation.
- ◆ Area Ratio.
- ◆ Root Cause Failure Analysis.
- ◆ Sample Preparation
- ◆ High Magnification using Scanning Electron Microscope (SEM)
- ◆ Microscopic Examination
- ◆ Fracture Mode and Mechanism
- ◆ Metallographic Samples
- ◆ Microhardness Indentation
- ◆ ASTM E112 - Grain Size Measurement
- ◆ ASTM E45 - Determining Inclusion Content in Steel
- ◆ ASTM E1077 - Depth of Decarburization in Steel
- ◆ ASTM E1268 - Directional Microstructure Etching
- ◆ ASTM A247 - Graphite Microstructure in Iron Castings
- ◆ Particle Size/Distribution
- ◆ Coating Thickness and Case Depth
- ◆ Ferrite/Pearlite Ratio
- ◆ Porosity



Our tests are
**precise and
adhere to
international
standards.**



Examination standard	Type of examination	Class	
As required by the job requirements	Shallow and deep foundation capacities and soil composition.	Soil examination	
ASTM 1194, ASTM 1195, ASTM 1196, g BS 1377	Shallow bearing capacity and road design.	Plate load test	
General Specifications for Roads and Bridges (R9)	Concrete and asphalt mix design and analysis. Asphalt compression.	Hot mix asphalt concrete layer	
General Specifications for Roads and Bridges (R8A) for the subbase layer and (R8B) for the tack coat layer.	Sampling, moisture content, viscosity, and distillation.	Asphalt base layer and tack coat	
ASTM D4318	Liquid and plastic limits.	Material filling	Earth works
BS 1377	Chemical analysis.		
ASTM C136, ASTM D422, or ASTM D1140	Sieve analysis.		
ASTM D698 (Standard Proctor) / ASTM D1557 (Modified Proctor)	Standard Proctor test, Modified Proctor test.		
ASTM D4253, ASTM D4254	Indirect density, specific gravity, and relative density.		
One of the following methods: Sand Cone Method (ASTM D1556) Nuclear Method (ASTM D6938) Rubber Balloon Method (ASTM D2167)	Moisture content and dry density test on-site.	Compact material wars	
ASTM C33M	Sieve analysis.	Chemical requirement measuring device	
ASTM C33M	Bulk density.	Silica materials	Aggregate for concrete
Solar radiation intensity measuring device	Chemical analysis.	Stone materials	
ASTM C33M	Sand purity test.	Other materials	
Device for measuring dissolved chlorine ratio	Acidity (PH) value.		
ASTM C1602M, Iraqi specifications	Sulfates, chlorides, alkaline carbonates, and bicarbonates.	Water for concrete	
ASTM C1602M, Iraqi specifications	Chemical analysis.		
ASTM C150M, Iraqi specifications	Soundness test.	Cement	
ASTM C150M, Iraqi specifications	Viscosity and hardening time.		
ASTM C150M, Iraqi specifications	Viscosity and hardening time.		



Laboratory of the Electrical Engineering Department

The Electrical Engineering Department Laboratory at the Engineering Consulting Office serves as a vital hub for research and development. The laboratory adopts a comprehensive approach focusing on innovative and advanced engineering applications in diverse fields such as renewable energy systems and smart control. The team possesses extensive experience in electrical device testing and electrical system analysis. Activities include electronic circuit analysis, device performance testing, and research in clean energy technologies. The laboratory promotes sustainable development and provides pivotal engineering solutions for client projects, reflecting its commitment to advanced technology and innovation in electrical engineering.

Unfortunately, I am unable to provide the translation at the moment



Device for inspecting diameters and dimensions



Device for testing soil



Testing circuit breakers (trip time testing + contact resistance testing)



Insulation tester



Light intensity meter



Water and dust resistance



Transformer oil testing



Resistance tester

Quality policy

The quality policy at the engineering consulting office reflects a commitment to delivering exceptional engineering services that meet the highest quality standards. The office aims to achieve customer satisfaction by providing innovative and effective engineering solutions that precisely meet their needs. The cornerstone of the quality policy lies in embracing continuous improvement and applying advanced quality management methods. The office pledges to ensure compliance with relevant legal and regulatory standards and requirements. The focus is on delivering high-quality consulting services in diverse fields such as engineering design, project management, and environmental consulting. A culture of quality is reinforced through continuous training for staff and encouragement to contribute to continuous improvement processes. Regular monitoring and evaluation of quality performance are conducted to ensure ongoing compliance and achieve optimal outcomes for clients. Dedication to quality permeates all aspects of engineering work, enhancing the office's reputation as a leading provider of exceptional and reliable engineering solutions.



Quality management in the fields of electrical and mechanical inspections:

Quality management in both electrical and mechanical inspections is essential to ensure the delivery of professional and reliable services to customers. In electrical inspections, adhering to high-quality standards is crucial to accurately detect any issues within electrical systems. This involves utilizing advanced techniques and precise measuring devices. Technicians are trained to the highest levels of proficiency to conduct inspections correctly and effectively.

In the mechanical field, quality management requires conducting precise tests to assess the properties of materials and mechanical components. Quality of inspections is regularly controlled to ensure reliability and accuracy. Quality procedures in this field include using advanced equipment and modern techniques.

Documenting processes and results is fundamental in quality management to maintain accurate and traceable records. Continuous process improvement is emphasized based on performance evaluations and learning from past experiences.

Quality management is integral to our commitment to providing excellent services and meeting customer expectations in the fields of electrical and mechanical inspections.

The optimal
choice for
engineering
inspections



Our Proud Clients

Ministry of finance

- Rasheed Bank
- Khor Al Zubair Free Zone
- Central Bank of Iraq
- Rafidain Bank

Ministry of electricity

- Free Electric Power Station
- Najibiya Power Station
- General Directorate of Electricity Production in Nasiriyah
- General Directorate of Electricity Production / Basra
- Power Station in Nasiriyah
- eneral Directorate of Electricity Distribution in Southern Iraq
- Transformer Station in Babil Province

Ministry of Industry & Mineral Wealth

- Ministry of Transport and Communications
- Iraqi Government Company for Iraqi Ports
- Iraqi Government Company for Railways
- Iraqi Government Company for Water

Ministry of Water Resources

- General Directorate of Irrigation and Maintenance Projects

Ministry of Oil

- Southern Refineries Company.
- Southern Oil Company.
- Southern Gas Company.
- Petroleum Training Institute / Basra.
- Majnoon Oil Field.

Ministry of Housing & Reconstruction

- Government Company for Industrial Designs and Consultations
- Government Company for Roads and Bridges / Basra
- Al-Farouq Company for Structural Construction Contracts

Ministry of Higher Education

- Basra University
- Fhi Qar University

Ministry of Industry & Mineral Wealth

- Government Company for Paper Industries.
- Government Company for Sugar Industry/ Maysan.
- Government Company for Petrochemical Industries.
- Ibn Majid Government Company.
- Government Company for Chemical Fertilizers in the Southern Region.
- Government Company for Chemical Fertilizers in the Northern Region.

Ministry of Transportation and Communications

- Iraqi Ports Company.
- Iraqi State Railway Company.
- Iraqi Maritime Transport Company.

Ministry of Public Works

- Directorate of Basra Water Drainage.
- Basra Municipality Directorate.
- Maysan Municipality Directorate.
- Faw Municipality Directorate.
- Basra Provincial Council.
- Maysan Provincial Council.

Ministry of health

- Basra General Hospital.
- Teaching Hospital in Basra.
- Teaching Hospital in Nasiriyah.
- Nasiriyah Hospital Directorate

Quality Certificates





ecb-basrah@uobasrah.edu.iqd



Engineering College - University of Basra - Karmat Ali Site
Basra - Al-Abbasiya - Behind Fattouh Restaurant

