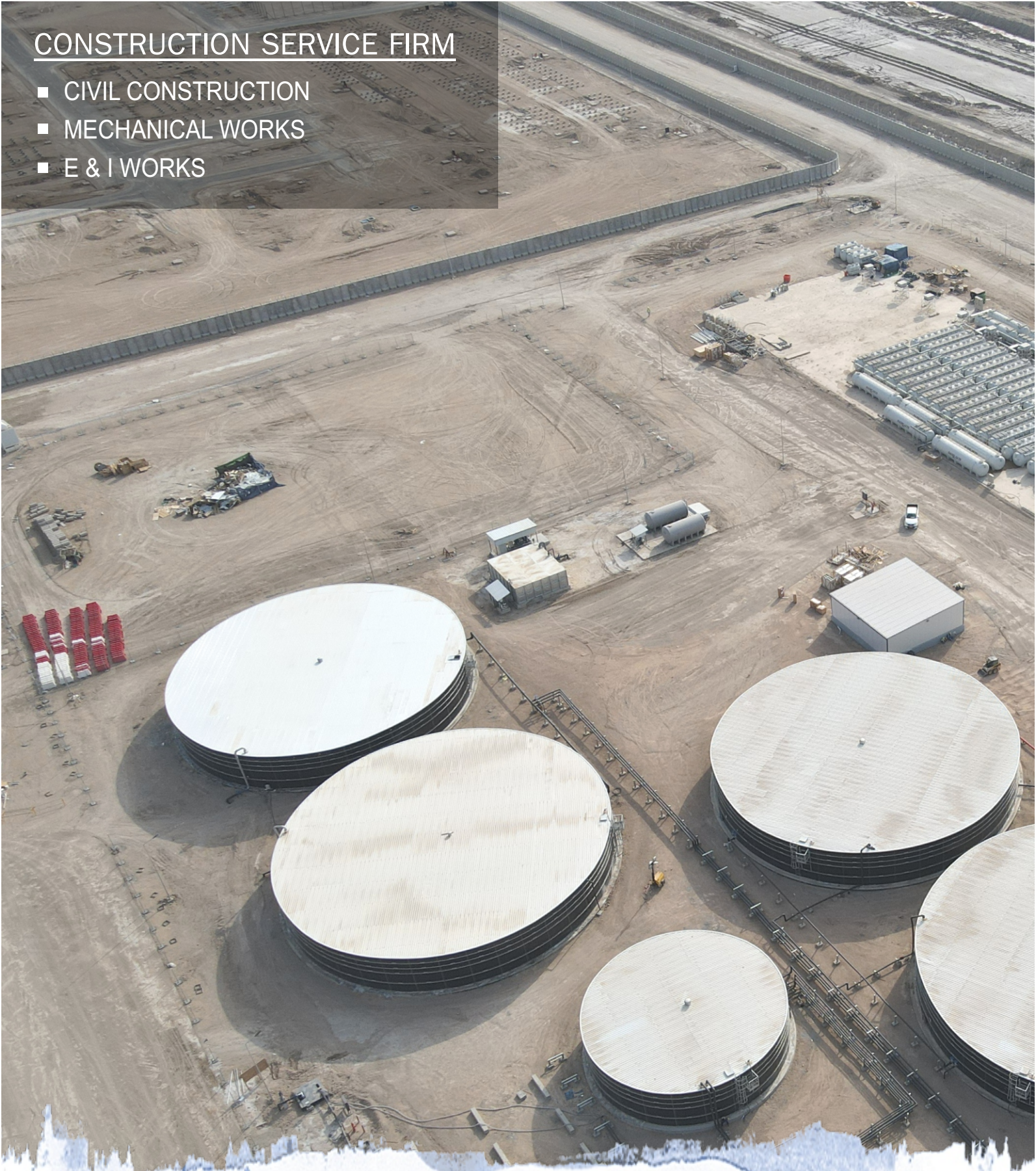


CONSTRUCTION SERVICE FIRM

- CIVIL CONSTRUCTION
- MECHANICAL WORKS
- E & I WORKS



We build up great things

AEC
ALTAAKHE ENGINEERING
FOR GENERAL CONTRACTING LTD.

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INDEX

About Us / Vision & Mission	04
Company Policy	05
CEO Message	06
Our Values	07
Area of Expertise	08
Our Services	10
- Engineering	10
- Procurement	12
- Construction	15
- Civil Works	15
- Electrical	16
- Mechanical	17
- Instrumentation	18
- Piping	19
- Project Management	20
- Operation & Maintenance	21
- Testing & Commissioning	23
- Calibration & Testing Services	28
- Supply Chain	35
Manpower	36
Organization Chart	38
Our List of Equipments	39
Quality	42
HSE Policy	43
Our Certification	44
Past Projects	46
Our Clients	55



Company Policy

AEC is a private company established in Iraq. Involved in various aspects of oil & gas activities including field development and rehabilitation, drilling operations, Spare parts supplying, oil & gas installation and engineering services, design and manufacturing of oil tank and pressure vessels and general transport.

We established a clear understanding of clients needs right from the start to provide precisely what is required. Our clients enjoy significant cost, security, and quality benefits that result in a more efficient use of resources supplied. Our part is to make sure that the right people are in the right place doing the right thing at the right time. Our aim is to provide professional, cost-effective services of uncompromising quality and integrity.

AEC depend on skilled Iraqi and foreigners' specialists (workers and engineers) who gained a lot of their experience working in IRAQ. For the time being we believe that we and our joint ventures companies are capable of implementing various types of oil & gas services and oil industry. Our aim is to protect natural environment and to leave a livable world to next Our employees are being trained about HSE continuously, concerning human health, safety working and environment.

AEC is a limited liability company specialized in general contracting, the construction of buildings, infrastructure, Trading, Transportation, Oil Services & Commercial Agencies, as well as operations and maintenance.

It is more than 13 years since Political Change in Iraq has made use of the God's blessings such as tremendous resources and its strategic location to assume an international status as well as a popular destination for international investments. The Iraqi government has provided development plans for the achievement of the highest possible levels by taking advantage of the growing construction and development process.

Like other emerging constructions companies, (AEC) Company is benefitting from this economic growth and favorable construction movement. We contribute to moving forward the construction wheel by developing different construction plans and diversification in government and private projects in order to meet local construction market demands. Furthermore, we provide job opportunities to the youth of the country and building professional cadre in addition to achieving the higher goal of the development plans. This has been our objective since the establishment of the company in Basra region and we have strived to extend our projects to other cities in Iraq.



Vision & Mission About us

AEC's construction expertise includes civil, structural, architectural, process, electrical, mechanical, piping and instrumentation & control; as well as advanced specialties, including simulation, enterprise integration, integrated automation processes, and interactive 3D modeling.

AEC construction engineering, procurement, fabrication, construction, maintenance and project management and aims to become the leading engineering services in the Thermal Power Plants and Oil & Gas Projects.

The project design process incorporates early involvement of construction and commissioning expertise, to ensure projects are designed to be constructed and operated in the most efficient manner.

AEC Engineering Energy maintains Integrity and Seamless Engineering among own design groups and develops a common language and understanding by using the International Standards, Reputable Norms, and Procedures.

AEC Engineering Energy offers the best Basic and Detail design for:

- Oil and Gas Process Projects,
- Combined Cycle Power Plants (CCPP) Projects,
- Simple Cycle Power Plants (SCPP) Projects,
- Coal Fired Power Plants,
- Desalination Plant Projects,
- Marine Projects,
- Dam Projects,
- Pipeline Projects,
- Pump Stations,
- Well Pad Facilities,
- Tank Farm Projects.

AEC Engineering Energy seeks, shares and builds the projects upon experiences and lessons learned. AEC Engineering Energy ensures that the projects are optimized;

- Technically,
- Environmentally, and
- Economically.

AEC's projects are implemented;

- Ahead of schedule,
- Within Budget Constraints,

To the Full Satisfaction of the Clients with reliability.

CEO Message

AEC success is built on strong partnerships, technical expertise, and a proven ability to deliver superior operational results. With customers across various markets, we are utilizing talent and technology to diversify our offerings and achieve sustainable development. We continually invest in the company and our employees proactively innovate to improve processes, results, and strive to meet the highest standards of integrity and safety in the workplace.

The Company has a commercial role to play across the petroleum value chain and plans to grow into an oil and gas entity with local and international presence. AEC also aims at increasing participation of Iraqis in the oil and gas sector through employment and provision of goods and services.

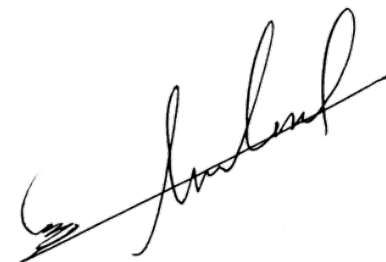
We are committed to maximizing the value of our oil and gas assets and to remain a trusted and reliable energy supplier for the long-term benefit of our country and our customers. We will do so by focusing on four strategic areas: enhancing the company's performance, increasing profitability, optimizing efficiency, and investing in our people.

Our clients always come first; identifying their needs and wants is the driving force that pulls us towards our eagerness to deliver. We have a clear vision of what we want to be – leaders in the Petroleum industry and we guide our business using our core values: Professionalism, Commitment, Collaboration, Integrity, Excellence, and Sustainability.

We are obligated to conduct our business such that we safeguard our employees, protect our environment, benefit neighboring communities, and strengthen our economy. AEC is a performance-driven organization, and we work hard to ensure that we consistently merit the confidence of our investors, partners, and other stakeholders around the world.



Hussian Hula Amer
CEO



Our Values

Excellence

We are in a hazardous business, and are committed to excellence through the systematic and disciplined management of our operations. We follow and uphold the rules and standards we set for our company. We commit to quality outcomes, have a thirst to learn, and to improve. If something is not right, we correct it

One Team

Whatever the strength of the individual, we will accomplish more together. We put the team ahead of our personal success and commit to building its capability. We trust each other to deliver on our respective obligations.

Respect

We respect the world in which we operate. It begins with compliance with laws and regulations. We hold ourselves to the highest ethical standards and behave in ways that earn the trust of others.

Courage

What we do is rarely easy. Achieving the best outcomes often requires the courage to face difficulty, to speak up and stand by what we believe. We always strive to do the right thing. We explore new ways of thinking and are unafraid to ask for help

Our Team

What we do is rarely easy. Achieving the best outcomes often requires the courage to face difficulty, to speak up and stand by what we believe. We always strive to do the right thing. We explore new ways of thinking and are unafraid to ask for help



Area of Expertise

Our extensive experience across multiple markets enables us to take a big-picture approach, apply best practices, and achieve supreme essences on your projects, serving you in more ways than ever before.

Energy | Oil & Gas

Scope of Oil & Gas:

1. Piping & Pipe line Installation
2. Static & Rotating Equipment Installation.
3. Electrical & Instrument Installation
4. Fire Proofing.
5. Insulation of equipment & piping.
6. Chemical & Mechanical cleaning for equipment & pipes.
7. Operation & Maintenance.
8. NDT & Hydrotest .



Water

1. Conveyance
2. Utility Management
3. Drinking Water Infrastructure
4. Water Resources & Ecosystem Management
5. Wastewater Infrastructure



Environmental:

1. Hazardous Waste
2. Wastewater Treatment
3. Water Supply
4. Environmental Science
5. Environmental Sustainability
6. Environmental Management
7. Laboratory Analysis



Procurement

Over the Years, AEC provide Equipment and Material Procurement and Supply Service to the oil and gas industry throughout Iraq and the rest of the world.

Procurement in the Oil & Gas Industry has become an essential service in today's competitive marketplace.



Supply Chain

1. Ports & Maritime
2. Highway & Trac Safety
3. Sustainable transportation services



Our Services

Engineering

AEC provides a host of engineering services for the Oil & Gas industry, in IRAQ. With very senior engineering experts from the Oil & Gas sector on staff, AEC plays a pivotal role in providing engineering support for greenfield and brownfield projects.

The Oil and Gas sector is always challenged with expanding energy needs, while the available organic resources are really not unlimited and the costs need to be under check. This drives the need for them to get smarter, to improve on efficiencies and reduce the time to scale up, so that end market needs are being met.

Apart from several new projects that are coming up at any point in time, there are several facilities which need to go through capacity upgrades, facility revamp or upgradation. Many of the projects also have a tight budget and schedule, which makes it critical to find a reliable and experienced partner, so that any risks associated with the project are minimized.

AEC supports clients in a variety of areas including

- Process engineering
- Piping layout
- Pipe stress analysis
- Mechanical design
- Civil and structural engineering
- Electrical Engineering
- Instrumentation engineering
- Procurement engineering

Apart from core engineering, AEC also provides support for creating As-Built drawings, in cases where there is a delta between the engineering documentation on hand and the actual facility.

There are also engineering support services available from AEC, such as 2D to 3D conversions, CAD migrations and generation of fabrication drawings.



Procurement

Over the Years, AEC provide Equipment and Material Procurement and Supply Service to the oil and gas industry throughout Iraq and the rest of the world. Procurement in the Oil & Gas Industry has become an essential service in today's competitive marketplace.

Our role is to find and supply all the manufactured goods associated with the exploration and delivery of oil and gas.

Our customers expect an exceptional level of service and we fulfil that expectation by delivering a reliable, honest, diligent and conscientious service that meets their specific demands.

Our extensive expertise and knowledge of the Oil and Gas industry make AEC one of the key players in Oil and Gas plant procurement, and our continued work with international blue chip companies is testament to our success in continuously meeting the rigorous purchasing and supply chain demands of the industry.

Oil producers and gas plant operators onshore and offshore are met with ever more challenging problems which must be overcome.

Our comprehensive procurement service offers you full support infrastructure considering all aspects of execution including sustainability, cost implications, logistics and technology.

Acting as your one-stop procurement provider, with our Outsourced Procurement Service we take responsibility for your purchasing portfolio, commissioning purchases, managing administration and dealing with logistical procedures. For individual requests we utilise our Day to Day Procurement Service to offer you advisory consultations and adhoc projects.

The nature of the Oil and Gas industry commands that projects are carried out in some of the most hostile landscapes on earth. Our highly developed procurement services integrates innovative solutions for reaching these environments along with the most up to date execution methods, ensuring we deliver to your facility on time and in line with your project strategy. We have full and comprehensive Incoterms knowledge and capability to enable us to operate in any destination utilising any model of transport.

The following list provides typical examples of the type of equipment we are asked to supply:

- General Equipment
- Valves, Actuators, Regulators
- Pumps
- Hoses and Fluid Handling
- Hose Fittings
- Pipe Fittings and Flanges
- Pipe and Tubular Products
- Separators and Filters
- Gauges and Meters
- Pipeline accessories
- Generators
- Cranes and lifting equipment
- Marine Services
- Steelworks
- Safety Equipment
- Personal Safety Equipment
- Coatings, resins, paints
- Compressors
- Lighting and Electrical Products
- HVAC Equipment and Supplies
- Subsea Pipes & Fittings
- Non Corrosive Fittings
- Stainless Steel Fittings
- Stainless Steel Pipe
- Hazardous Area Electrical Equipment
- ATEX Equipment
- Non Sparking Tools





Construction

AEC provides construction, project management services using established technologies, systems and work processes to provide most favourable results for clients.

By designing a building production system, AEC is able to reduce waste of materials, time and effort through a master builder model that generates value for all parties.

Civil Works

AEC has designed and managed most of the civil works related to with oil and gas process facilities as well as the pipelines facilities.

- Fabrication all types of steel structure
- Execution all types of concrete footing, slabs and piles
- Fabrication and installation all types of steel pipe support
- Soil investigation
- Earthing works
- Road paving
- Camps Construction
- Concrete Works
- Road Construction
- Plumbing Works
- Technical Works (grouting, etc)
- Precast Workshop
- Communication Towers
- Steel Prefabrication
- Warehouses Construction
- Piling Works (Pored, precast, and sheet pile)
- Buildings Construction
- Concrete Batch Plant
- Asphalt Plant

Our procurement experts manage contracts from request for quotation to contract close-out. This includes tender support, bid evaluation, supplier selection, and audits.

As part of our strategic sourcing solution, we can supplement our client's procurement function with experienced manpower during periods of project peak work load.

Our procurement services for the oil and gas industry cover:

- Inquiry/tender
- Bid clarification and evaluation
- Supplier and subcontractors pre qualification, approval and monitoring
- Follow-up/expediting/quay check
- Transport, logistics, warehousing and handling of backload
- Receipt of goods, invoice handling and reporting
- Framework agreements, procurement strategy, budget and planning
- Technical integrity and timely delivery

We Service Major Oil & Gas Companies in Iraq and they enjoy the highest quality level of Procurement & Supply Services of the goods.

Please contact us today with your requirements and let us show you what we can achieve.



Electrical

- Installation and Commissioning of Diesel Generator Set.
- Power Transformer (132/33kv,33/11kv,11/0.4kv,)
- EHV GIS panel.
- Dummy panel.
- LV Power Distribution Panel.
- LV Switchgear and MCC Panel.
- MV Switchgear Panel.
- NGR and VSD Panel.
- Power Capacitor System, Power Monitoring System , SCADA PMS/ECS
- Bus duct Systems (indoor and outdoor)
- Power System (Cable tray, Cable pulling LV &HV (1.5mm2 to 630mm2), Glanding and Termination
- Installation of Fiber Optic Cables
- CCTV Systems
- Communication Systems (Paging, P/A, Wireless Radio)
- Grounding System
- Fire Alarm System
- Telephone System
- Lighting System



Mechanical

- Installation of Rotating Equipment (Gas Turbine Generator, Compressor, Pumps, Electrical Cranes, Chemical Injection Units, TEG Refrigeration Package).
- Installation of Stationary Equipment (Vessels, Drums, Columns, Heat Exchangers, Filters).
- Fabrication and Installation of Storage Tanks.
- Installation of Fire Fighting Systems.
- Specialized of Hot Tapping.
- Cathodic Protection Services.
- Insulation of Stationary Equipment, Pipeline and Piping Systems.
- Hydrostatic Testing and Cleaning Services.
- Chemical Cleaning for Process and Stationary Systems.
- NDT Services.



Instrumentation

- Analyzer Common Cabinet
- Cable Tray and Fittings, Ladder and Straight
- DCS, EWS, HIS (OWS), Marshaling Panel,
- Network Panel, PIMS
- ESD, EWS, Marshaling Panel, System Panel
- Fire and Gas Panel
- Fiber Optical Cable
- Flame Detector, UV/IR
- Flow Gauge Panel
- Flow Transmitter Gas Detector &
- Combustible
- Instrument Cable (Different Sizes)
- Junction Box
- Level Gauge, Level Transmitter
- Metering System
- Metering EWS
- MMS, EWS/MCS
- MMS Panel
- Temperature Gauge, Transmitter, Indicator
- Pressure Transmitter, Pressure Gauge
- Process Stream Analyzer
- Control Valves
- PLC Panel
- All Tubing and Conduits Works
- Calibration Services



Piping

- AEC provides the construction of the following piping and pipeline systems.
- Custom Pipe Fabrication (Shield Metal Arc Welding (SMAW), Gas Tungsten Arc Welding (GTAW) & Plasma Cutting)
- Fabrication and Installation of Piping Systems (CS, SS, Alloy Steel).
- Installation of Pipeline.
- Fabrication and Installation of Wellhead and Manifold Systems.
- Compressor and Pump Station Construction
- Meter and Regulator Station Construction
- Launcher and Receiver Fabrication and Installation
- Turn-around Services.
- Hot tapping Services
- Installation of Valves and Other Piping Elements.
- Sandblasting, Panting and Coating Services.
- NDT
- Hydro Testing Services
- Pigging and Cleaning Services.
- Flange Torqueing and Bolt Tensioning.
- Installation of GRP Piping and Fittings
- Installation of HDPE, PE Piping and Fittings.
- Cathodic Protection Services.

Project Management

AEC is commitment to deliver complex projects in challenging locations around Iraq.

AEC's project management expertise offers tailored project management services to support our clients' specific needs. With our flexible approach we can provide a full project management team or specific specialist support.

We work with our clients to identify the specific project management services that each client requires and then build a team of specialists with the experience and skills to provide the necessary support.

We understand the aims of each phase of a project and ensuring the most cost-effective yet safe solutions to the required outcomes.

We have extensive experience in providing a complete project management team for all stages of the project life from conceptual development to FEED and Detailed Design, Construction, Commissioning and Operational Support.

We also work with clients to provide specialists to integrate with and strengthen the client team.

In addition to the discipline engineering and project controls support, we also provide specialist support in the following areas:

- Cost Estimating
- Planning and Scheduling Management
- Construction Advice
- Procurement and Supply Chain Management.
- Installation Management
- Construction Management (MEI&P)
- Commissioning Support
- Surveying and Basic Design Management
- Technical Safety Support and Studies.



Operation & Maintenance

AEC is dedicated to planning and managing the operation and maintenance of oil and gas plants to ensure that safe operational performance is optimized, that availability is maximized and that cost is minimized.

With up to 100 technical and craft personnel have been worked at more than 7 client sites around the country, AEC is a provider of operations and maintenance (O&M) services.

In short, we are specialized in maintaining our clients production facilities so that they do what they should at minimum cost while upholding the highest safety and environment standards in the industry.

Our thorough knowledge of all the major types of oil and gas plant, equipment and components means that otherwise disparate and specific maintenance activities can be consolidated, coordinated and managed by a trusted independent partner.

A comprehensive, specialized activity

Operation & Maintenance services is a comprehensive, specialized activity that starts with understanding the plant and its processes, together with the objectives of the owner. Effective maintenance increases the up-time of the facilities and the time the plant is available for production. In addition to increasing operating revenue, professional maintenance also extends the productive lifetime of the assets, resulting in a reduction in the clients capital expenditure as well as environmental risks.



Testing & Commissioning

Electrical Testing & Commissioning

AEC provides services for Electrical System Testing including Pre-commissioning, Commissioning & Maintenance. We are dedicated to serve industrial sector, as well as academic and government institutions through awareness of modern scientific and engineering problems applied in Quality and Material testing, Development of leading edge, cost-effective technologies, Optimal selection of new and emerging methods, Efficient and cost saving applications.

We improve safety and reliability. We inspect, test, and evaluate our customers critical assets, reducing liability, and safeguarding their consistent performance.

Electrical Testing

- Protection Relay Test
- AEC is Definitely your one stop service provider.

Primary Testing

- Secondary Testing
- Functional Testing

Electrical system tests will be executed by specialists according to international and national standards. These specialists are certified in accordance with IEC, IEEE, NEMA & NEC is well-equipped to handle nearly any reliability program.



An unrivalled understanding

A number of major international and national oil companies entrust us with the Operation & Maintenance of their oil, gas and LNG production facilities. In doing so, they are able to focus on their own core activities while benefiting from 13 years of experience AEC has accumulated in operating and maintaining hundreds of production installations around the world. This has enabled us to develop an unrivalled understanding of how, when and where to apply the most effective operational methods and specialist maintenance technology.



Optimum performance at minimum cost

As the market leader, we maintain an installed base of tens of thousands of different pieces of equipment and parts, for all production facility components, in multiple configurations. The equipment and parts are suitable for the extremes of environment in which we work, from the Arctic to the Tropics, and from arid deserts to humid rainforests. Similarly, we have accumulated a wealth of experience concerning the effects on plant, equipment and parts of the variety of products processed, from aggressive high-acid oil to sulphur gas. All this information is continuously analysed and applied in the Integrated Operation & Maintenance of our clients extremely valuable assets, ensuring the optimum performance of their facilities at minimum costs.



Transformer Test

Transformer is the main Equipment in the Electrical System. Our Company provide the Experience & Testing Equipment to implement the following Main Tests of the Transformer.

- Turn Ratio (Per Tap)
- Winding Resistance(Per Tap)
- Vector Group
- Insulation Resistance
- Power Factor (CH,CL,CH-CL)
- Oil Break Down Test BDV (ASTM & IEC)
- Cooling system test
- Protective Devices Testing
- Stability Test
- Tap Changer (AVR test)
- Functional & Interlock check
- Bushing CT Test (BCT)
- VT test
- Our Other Testing Services Include;
- C.B and Circuit Breaker



Gas Isolated Circuit Breaker (GI C.B) , Air Circuit Breaker (ACB), oil isolated Circuit breaker & Vacuum Circuit Breaker (VCB) are the Main Switches in the Electrical Power System .For Protect the Grid & Reliability , Many testing performed on the C.B at site During Pre commissioning, Commissioning & Maintenance as following Tests

- Conductivity Resistance Measurement
- IR test
- Pot Test
- On-off Timing test
- VIDAR test(VCB only)
- Interlock check
- Earth System Test

Earth system is the first Protective line for Human beings & Electrical Equipment. The soil resistive measurement During Design any project due to fault calculation & Earth system specification .The soil resistivity & earth system measurement has been tested by our company for many project by use a modern method (Bird's Eye Method & 62 % method).

Grid & SWGR Test

Switches are one the part of the Electrical power system. Our Company provide the Experience & Testing Equipment to implement the main following required testing of the GIS & AIS Grid, MV & LV SWGR.

- | | |
|----------------|--------------------------------|
| ▪ CT & VT test | ▪ Partial Discharge test |
| ▪ B test | ▪ Functional & interlock check |
| ▪ IR test | ▪ Protection Relay test |
| ▪ Pot Test | ▪ Partial Discharge test |
| ▪ CRM check | |



VT and Voltage Transformer Test

VT is one of the Metering, Protection & Isolation Instrument device in the Electrical System. For reliability & Conformity many testing performed on the VT at site During Pre commissioning, Commissioning & Maintenance as following Tests;

- Ratio Test
- Winding Resistance Measurement
- IR test
- Burden Measurement
- Polarity Check
- CT Current Transformer

CT with the VT are one of the Metering, Protection & Isolation Instrument device in the Electrical System. For reliability & Conformity many testing performed on the CT at site During Pre commissioning, Commissioning & Maintenance as following Tests

- Ratio Test
- Winding Resistance Measurement
- IR test
- Burden Measurement
- Polarity Check point
- Commissioning



Secondary Testing

- Advanced Secondary Test
- Omicron GMBH CMC356 & CMC256 plus

Secondary Injection Kit which we use it for Testing the Advice Distance Relay, Advanced Differential relay & Generator Protection Relay Is one of the Best Secondary Injection Kit for Testing the Advanced relay which provide ability to deal with the GOOSE Grid.

Advanced Primary Test

Omicron GMBH CPC 100 & It's Accessories Primary Injection Kit which we use it for Testing the primary side of the Electrical Equipment (Transformer ,SWGR ,CT,VT & C.B).

CALIBRATION & TESTING SERVICES

AEC Laboratory provides state of art Calibration Services , we deliver calibration services by understanding our client's needs and through a partnership approach, which offers flexible contracting options.

We are committed to ensuring the ongoing performance, accuracy and compliance of your instruments and equipment through calibration and repair. Our knowledge and experience extends to a range of regulatory industries & Laboratory accreditation bodies. We use standards that specifically assess factors relevant to the laboratory's technical competence.

We at AEC are proud to offer you one-stop solutions for all of your calibration services with hi-tech Master Equipment for best results and client satisfaction. Some of the Services We Provide include;

Pressure Calibration

Our pressure calibration services include tool calibration for a variety of measuring hand tools as well as calibration of masters and standards. Routine pressure calibration will help ensure the accuracy and precision of your pressure instruments. The use of reliable instruments is essential for efficiency, quality and safety.



We at AEC perform pressure calibration from vacuum to 15,000 PSI. With every pressure calibration you receive a Calibration Certificate from us, with all the information you need about the condition of your instrument, calibration results, traceability and adjustments made. We offer calibration facility of following instruments in our lab as well as at site:

- Pressure Transmitter & Transducer
- Pressure Recorder & Switch
- Pressure Gauge (Digital & Analog)
- Pressure Calibrators / Manometer
- Dead weight Tester
- Control Valves

Temperature Calibration

We utilize a number of different processes to perform temperature calibration on a wide range of instruments both in our lab and on the field. Digital recorder and thermometer calibration takes place on a Fluke Multi-process Calibrator.

Temperature-Calibration22

Thermometer calibration are completed using dry-wells and liquid bath with temperature ranges from -30 °C to 650 °C. The liquid in temperature baths and atmosphere in Dry wells/blocks are set to a specific temperature for calibration. Once the appropriate temperature is reached, the test instrument and a standard are placed into the bath or well for a comparison of readings.

Calibration Capability

- Temperature Transmitter & Transducer
- RTD/ TC Calibrators/ Temperature Bath
- Temperature Elements & RTD
- Multi-Function Process Calibrator
- Bi-Metallic Gauge
- Bi-Metallic Gauge
- Thermometer (IR, Digital, Glass)
- Recorders (Digital, Analogue)
- Weather Stations
- Flow

Flow Calibration

Flow measurement has an impotent role in process industries. Regular calibrations of your flow meter instruments ensure that the flow meter's measurements are as accurate as their specifications say they are.

AEC provides fully-accredited flow meter calibration services. Our comprehensive flow meter calibration services can be custom-tailored to meet your specific requirements either at your site or through our network of mobile and depot labs.

Calibration Capability

- DP Flow Transmitter
- Ultrasonic Flow Meter
- Mass Flow meter
- Turbine type Flow Meter
- Gas-detector

Gas Detectors & Alarms

Gas Detection equipment must be calibrated and serviced regularly to provide protection for both plant and personnel. The manufacturer recommends that calibration is carried out at least every six months and more frequent calibration may be required where the detectors are exposed to gas for extended periods of time.

In order to ensure safe and accurate operation of Fixed Gas Detectors, they need to be periodically calibrated against reference test gases that are traceable to National Physical Laboratory standards. The recommended calibration period for fix gas detectors is six months although the frequency may need to be increased where continual exposure to the target gases is experienced. In this aspect AEC provides calibration solution for wide range of fixed gas detectors as well as personal portable detector.



Calibration Capability

- Fixed Multi Gas Detector
- Portable Multi Gas Detector
- Data Logger
- Gas Sensors
- Smoke detectors
- IR Flame Detectors
- Flame

Humidity calibration is a necessity for keeping humidity-reading instruments operating reliably and within accuracy specifications for a reasonable length of time.

We provide humidity calibration services at our lab in Basra, Iraq. You will receive a Calibration Certificate with full details for each calibrated item.

Calibration Capability

Thermometer calibration are completed using dry-wells and liquid bath with temperature ranges from -30 C to 650 C. The liquid in temperature baths and atmosphere in Dry wells/blocks are set to a specific temperature for calibration. Once the appropriate temperature is reached, the test instrument and a standard are placed into the bath or well for a comparison of readings.

- Hygrometer
- Data logger
- Psychrometer
- Recorder (Analog, Digital)
- RTD Probe (ITS-Coefficient)
- Temperature & Humidity Recorder
- Relative humidity (RH) sensor calibration
- Dimensions



Dimensional Calibration

In order to achieve accurate results, the quality of a measurement needs to be assured. Calibration of equipment, both before and after use is required to establish both the metrological traceability of the measurement and its compliance with ISO9000 quality standards.

Without proper calibration the results can prove catastrophic to a system in which the incorrectly dimensioned component is then integrated. Reliability, operating life, functionality, safety and cost can all be impacted by a lack of calibration conducted by an approved laboratory.

Calibration Capability

Dimensional calibration services from AEC includes:

Micrometer

- Analog & Digital (Inside, Outside)
- Vernier Caliper
- Analogue and Digital)
- Depth and Height
- Gauge block set
- Inches, Millimeter
- Ruler
- Steel
- Measuring Tape
- Leaser gauge
- UIT Detection Tape
- Angle Instruments
- Bevel Protector
- Digital combination set
- Electronic and Dial Test Indicators (Lever and Plunger)
- Levels
- Electronic, Laser, Spirit
- Straight Edges:
- Ruled, Beveled, Specials
- Feeler Gauges
- Surface Plate



Mass & Weighing Calibration

AEC activity in this area underpins the work of a wide range of industries, from providing traceability for very small weights used in the pharmaceutical industry to calibration of high range weighing bridges up to over 500kg.

The Mass Measurement Lab at MSL is equipped with state of the art Mettler Mass comparators and E2 Class reference Masses ranging from 1 mg to 30 kg, F1 Class Masses from 1 mg to 100 kg.

Calibration Capability

- Precision weights
- Ordinary weights
- Electronic balances
- Industrial / Mechanical balances
- Torque

Force & Torque Calibration

Force & Torque Laboratory at AEC is well equipped to with reference standards such as high precision load cells for verification / calibration of Universal Tensile Testing Machines & Compressional testing machines along with our capability to calibrate load cells. We offer calibration services both onsite and in our lab. Whereas we have an efficient and robust system for calibration of torque wrenches and other torque related equipment. Our Digital calibrators for Torque cover a wide range of torque measurements from 1 N.m to 2000 N.m. Our services in Force and Torque are reliable and traceable to international standards.





Supply Chain

Oil and gas supply chain require experienced, dedicated services. There is no room for error. Mistakes can be costly. Companies demand excellence from their resources. Plus deep domain knowledge of all areas within the sector.

It is a matter of trust. The peace of mind you get when you have complete confidence in your resources.

AEC Oil & Gas experts provide a full range of onshoren services. Customized supply chain solutions for specific needs and turnkey solutions 24/7.

We operate multiple strategic bases inn Iraq, some in extremely challenging environments, to provide our support services to the industry. Whether itis the transportation of a drill pipe to a landbased yard, rig mobilisation, agency services for supplies and personnel, or delivering specialised heavy equipment and spare parts through an integrated supply chain, AEC is your one-stop solution.

We understand that one day lost in construction or production can significantly impact development costs, and as such are completely transparent in our approach to oil and gas supply chain, providing you with more than one solution to every challenge.

Delivering Multimodal Transport Solutions

- Our focus extends beyond moving cargo - we help you translate complex supply chain requirements into transportable solutions.
- By giving our clients complete visibility of the impact supply chain has on the overall cost of an item, we empower you to consider alternate supply sources and engage multiple transport modes to meet your operational and financial objectives.

Calibration Capability

- Compressive Strength Machine
- Compressive / Tensile Load Cell
- Torque Tester
- Torque wrench
- Torque Multiplier
- Torque Screwdriver

Oil Analysis

Imagine being able to see the damage happening to your equipment from extremely minute wear particles and debris. Oil analysis is a preventive maintenance tool that uncovers fixable problems before they become catastrophic failures. For you, it means less unscheduled downtime and increased equipment reliability, productivity and profitability. Oil analysis with AEC can;

Extend oil drain interval

- Extend equipment life
- Identify problems before equipment failure site



Manpower

Assessment and Recruitment

Our proven recruitment, assessment and selection methods ensure that we identify the talent with the necessary skills and personal attributes that will add value to AEC organization.

With more than 70 high education Engineering and Administration staff and more than 530 technician and skilled labours, we can achieve our services and reach our goals.

Basic classification to AEC staff is as following classification

- Management 27
- Engineering 33
- Administrators 10
- Security 25
- Technician 240
- Labors 170
- Others 36

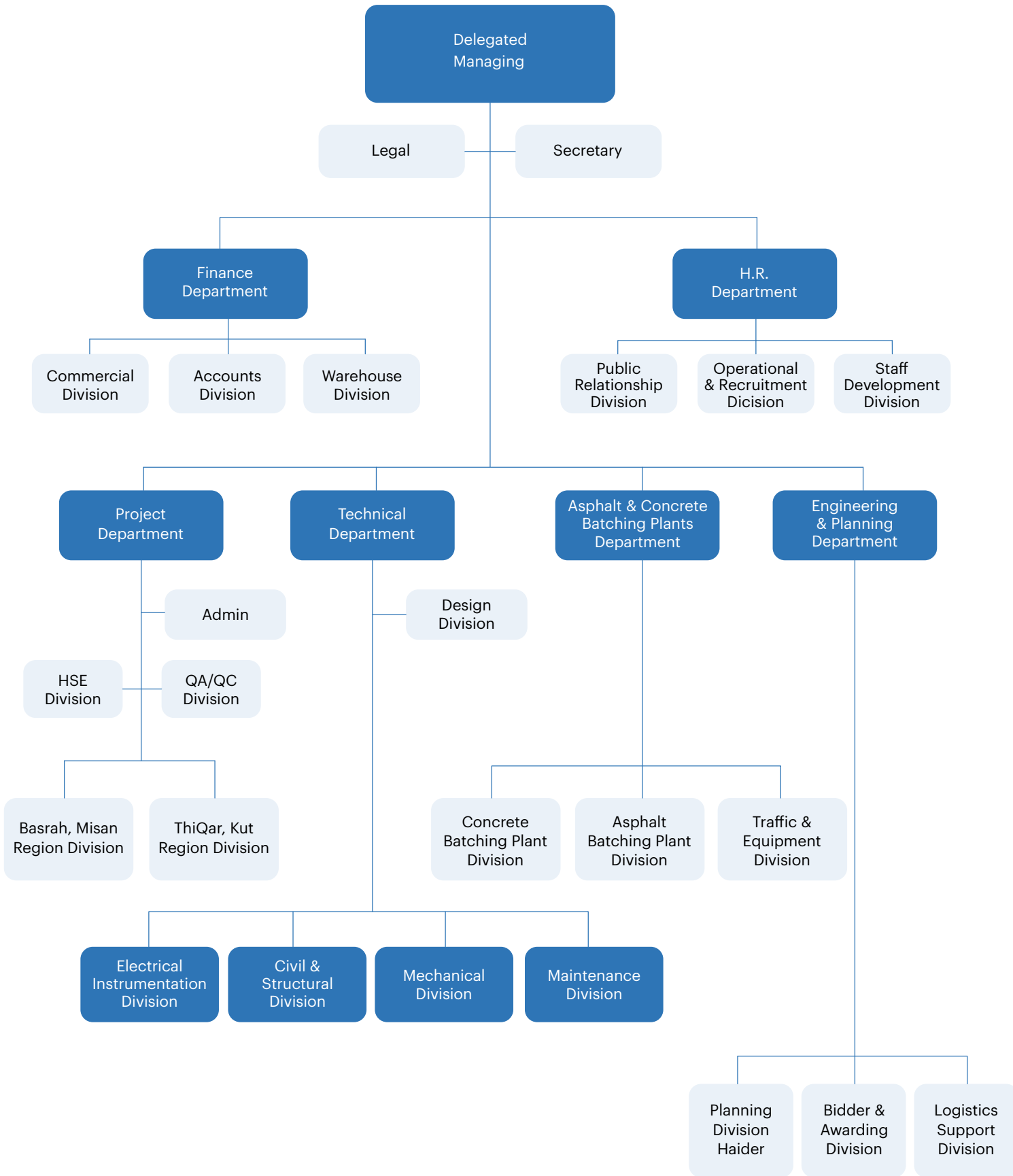


Manpower

Position / Type of work	No.
Project Director	1
Project Architect Director	1
Deputy Director	1
Construction Manager	1
Senior Construction Manager	1
Associate Project Manager (MEP)	3
Associate Project Manager (Structures)	3
Quality Control Manager	3
Senior Project Manager	4
Associate Project Manager (Buildings)	3
Senior Architect / Design Manager	6
Planning Engineers	1
QA & QC Engineers	2
Senior Project Engineer (Mechanical)	6
CAD Operator	3
Senior Project Engineer (Electrical)	5
Senior Project Engineer (Civil)	5
Health & Safety	5
Structural Engineer	5
Senior Administrator	2
Project Cost Consultant	2

Position / Type of work	No.
Contract Administrator	2
Quantity Surveyor	2
Administrator Assistant	4
Security	15
Barbender	3
Painter	4
Technician	8
Fabricator	8
Carpenter	10
Fitter	15
Mechanic	17
Electrician	20
Scaffolder	25
Welder	30
Laborer	170
Store	3
Supervisors (Mechanical, Civil & General)	8
Light Drivers	8
Heavy Drivers	12
Purchaser	5

Organization Chart



Our List of Equipment

Sr. No.	RESOURCE DESCRIPTION	Quantity In Peak	Manufacturer's Name	Year Of Manufacture	Capacity
1	DOZER	1	Dozer Cat D 6	1990	
		2	Dozer Cat D 8	1990	
2	MOTORGRADER	1	Motorgrader Cat 12G	1992	
		2	Motorgrader Cat 14G	1995	
3	LOADER	1	Wheel Loader Cat 980	1997	
		1	Wheel Loader Cat 950	1997	
		2	Wheel Loader Cat 966	1996	
		2	Track Loader Cat 973	1998	
4	EXCAVATOR	1	Excavator Cat 320	2000	
		1	Excavator Cat 325	2000	
		1	Rock Hammer x Cat 325	2001	
		1	JCB 3C Excavator	2001	
		1	Rock Drill ROC 45	2000	
		1	Concrete Batching Plant (120m3/hr)	2007	
5	MECHANICAL	2	Roller Compactor 10 Ton	2001	
		2	Plate Compactor	2004	
		2	Pocket Vibrator	2006	
		2	Pile Hammer x Sheet Piling	2000	
		1	Mud Dewatering Pump	2009	
		4	Truck Concrete Mixer 8 m3	2010	
		4	1000 gpm Fill Pump incl. Hoses	2010	
		2	2000 gpm Fill Pump incl. Hoses	2010	
		3	3000 gpm Fill Pump incl. Hoses	2011	
		5	5 HP Water Pump	2011	
		4	Nitrogen Purging Kit	2012	
		1	Grinding Machine	2013	
		1	Drilling Machine	2013	
		2	Pipe Cold Cutting Machine	2013	
		3	30 Ton Hydraulic Jack	2005	30Ton
		2	50 Ton Hydraulic Jack	2005	50Ton
		3	Pressure Testing Kit	2010	
		2	Primary Injection Kit	2010	
		2	Secondary Injection Kit	2009	
		3	Oil Testing Kit	2013	
		3	Chart Recorder	2013	
		4	Argon Welding Torch Set	2013	
		3	Resistance Mat heating set	2009	
		3	Internal Gas Purge Chamber	2008	
3	Air Less Pump	2008			
5	Sand/Grit Blasting Set	2010			
5	Vacuum Lift Equipment	2005			
6	5 Ton Forklift Truck	2010			
4	Survey Equipment	2012			

6	PIPELAYER	3	Pipelayer Cat 594	1995	
7	STRINGING	2	Stringing Tractor 180 hp	1996	
8	CRANE	3	FUSO, Tadano (FROM 3 TO 45TON)-Please see attached files of Technical Specifications of (20Ton,30Ton & 45ton)	2003-1998	20 Ton
		2	Mobile Crane50 Ton	2001	50 Ton
		1	Mobile Crane 110 Ton	2002	110 Ton
9	BENDING AND FACING	1	Pipe Bending Machine 48"/60"	2010	"60 / "48
		1	Pipe Bending Machine 38"/48"	2010	"48 / "38
10	WELDING	2	Induction Heating Seat	2009	
		2	Induction Coils	2010	
		3	Propane gas heating set	2005	
		2	Wheel Tractor 4 x 4	2005	
		2	Tow Tractor Cat D6	2004	
		2	Motor Welding Machine 400 amp	2008	
		2	Electrical Welding Machine 400 amp	2008	
		3	Pay welder 1 holder	2010	
		3	Pay welder 2 holder	2010	
		3	Pay welder 2 holder x Automatic Weld/System	2010	
		2	Pay welder 4 holder	2010	
		2	Pneumatic Internal Clamp 6"-16"	2009	"16-"6
		2	Pneumatic Internal Clamp 18"-28"	2009	"28-"18
		1	Pneumatic Internal Clamp 30"-40"	2009	"40-"30
		2	Pneumatic Internal Clamp 42"-50"	2009	"50-"42
		1	Cut & Bevelling machine	2005	
		1	Auger Boring/Pushing machine	2008	
		2	External Line Up Clamp	2008	
11	HYDRO TEST EQUIPMENT	5	Hydrotest Water Tank	2010	
		5	Feeding Pump 300m3/hr 5 barg	2011	300m3 /hr 5 barg
		4	Filling Pump 210+300m3/hr 40+45 barg	2011	210+300m3 /hr 40+45 barg
		4	Filling Pump 100+200m3/hr 40+45 barg	2011	100+200m3 /hr 40+45 barg
		3	H. P. Pump 200 l/min 300 barg	2011	200 l/min 300 barg
		2	H. P. Pump 30 l/min 300 barg	2011	30 l/min 300 barg_
		2	H.P. Test Headers	2011	
		2	Cleaning Filter Set (400+600 m3/hr)	2011	(400+600 m3/hr)
		2	Hydrotest Equipment Set	2011	
		2	140 cfm Compressor	2005	140 emf
		2	250 cfm Compressor	2004	250 emf
		1	350 cfm Compressor	2006	350 emf
		1	600 cfm Compressor	2007	600 emf
		1	750 cfm Compressor	2005	750 emf
1	1200 cfm Compressor	2004	1200 emf		
1	Air Dryer Equipment	2004			
1	Vacuum Drying Equipment	2008			
12	NDT	1	Internal X-ray apparatus	2010	
		1	External X-ray apparatus	2010	
		1	Mobile X-ray laboratory	2010	
		1	Darkroom Facilities	2010	

13	TRAILER	1	Flat Bed Trailer 20 ton with Prime Mover	2010	20 ton
		1	Flat Bed Trailer 25 ton with Prime Mover	2011	25 ton
		1	Low Bed Trailer 30 ton with Prime Mover	2011	30 ton
		1	Low Bed Trailer 50 ton with Prime Mover	2011	50 ton
		1	Flat Bed Truck 5 ton	2012	5 ton
		1	Flat Bed Truck 10 ton	2010	10 ton
		4	Truck 5 ton with Hiab Crane	2010	5 ton
		3	Truck 7.5 ton with Hiab Crane	2009	7.5 ton
		2	Truck 10 ton with Hiab Crane	2009	10 ton
		4	Truck 15 ton with Hiab Crane	2008	15 ton
		2	Overhead Line Bucket Truck	2005	
		5	5 Ton Tipper Truck	2010	5 ton
		1	7.5 Ton Tipper Truck	2009	7.5 Ton
		2	10 Ton Tipper Truck	2008	10 Ton
		2	15 Ton Tipper Truck	2008	15 Ton
		1	20 Ton Tipper Truck	2008	20 Ton
1	25 Ton Tipper Truck	2007	25 Ton		
14	TANKS	4	6000 litre Water Bowser	2010	6000 litre
		2	9000 litre Water Bowser	2011	9000 litre
		3	20000 litre Water Bowser	2011	20000 litre
		1	1 m3 Hydraulic Dump Truck	2011	1 M
		2	Vacuum Tanker 9000 litres	2007	9000 L
		2	Vacuum Tanker 20000 litres	2007	20000 L
15	BUS	2	5000 litre Fuel Truck	2007	5000 litre
		2	10000 litre Fuel Truck	2008	10000 litre
		2	Pick up Truck 4 x 4 single/double cabin	2012	
		2	Passenger bus 15 seater	2012	15 seater
16	GENERATOR	2	Passenger bus 25 seater	2012	25 seater
		2	Passenger bus 50 seater	2012	50 seater
		3	3.5 kv A Diesel Generator	2013	3.5 KVA
		3	Diesel Generator from 20 KVA up to 100 KVA	2012	20 KVA
		3	Diesel Generator from 101 KVA up to 200 KVA	2012	80 KVA
2	Diesel Generator from 201 KVA up to 350 KVA	2010	100 KVA		
3	Diesel Generator from 351 KVA up to 500 KVA	2010	120KVA		

Quality

Quality Policy Statement

AEC will strive to provide the highest quality of trading and engineering services complying with the requirement of ISO 9001:2008 and any other statutory requirements.

To achieve company objectives and customer's satisfaction, AEC will:

Inculcate understanding among employees that quality is everybody's responsibility and require their total involvement and commitment.

Enhance employee's performance by providing proper tools, equipment's, trainings and competencies.

Deliver services on time and within budget according to our customer needs.

Professional management on every task or project.

Practice the principle "Get it right first time" to maintain the quality standard.

Obtain customers feedbacks and continually improve processes to suit to the organization's needs and improve effectiveness of Quality Management System.

Quality Objectives

- To achieve average 90% customer satisfaction per annum.
- To achieve not more than 5 cases of delayed project completion per year.
- To achieve not more than 5 cases of customer complaints per project.
- To provide average 2 courses of training per employee per annum.
- To ensure not more than 1 case of accident per project.
- To achieve not more than 3 cases of supplier/sub-contractor non-conformance per annum



HSE Policy (Health, Safety and Environment)

AEC is committed to achieving and maintaining excellence in all aspects of its activities while operating safely and with integrity as detailed in our Business Code of Conduct. Economic considerations are not allowed to have an adverse impact on our people, assets, the environment and communities. AEC recognizes that all incidents are preventable and strives for zero harm to serve the needs of current and future generations.

Health, Safety, Security, Environment and Social Responsibility (HSE) principles are integrated in our risk management, business planning and processes. Our passion for innovation combined with our culture of continual improvement in HSE increases our competitive advantage.

Scope

This policy applies to all AEC employees and contractors under prevailing influence.

Compliance

AEC recognizes all underlying international ILO conventions and laws, and complies with all applicable national and industry HSE regulations.

We contribute to advancing industry standards and seek to apply best practices.

HSE Principles

AEC provides a healthy, safe and environmentally friendly workplace and promotes the awareness of workplace hazards.

We protect our employees, contractors & assets against criminal, hostile or malicious acts.

We regularly monitor our employees' health program and promote wellness.

We are committed to promoting a working environment that is free from illicit substances and tobacco use.

We apply ecodesign principles and mitigation to prevent and remediate harmful effects on the environment.

We respect and promote human rights, maintain mutually beneficial relationships with local communities and develop local content where practicable.

Leadership, Commitment & Responsibilities

The commitment and cooperation of all employees and contractors is essential, including the right and obligation to stop work and intervene. Willful breach of the Golden Rules will not be tolerated. Line management is responsible for implementing this policy in full compliance, setting relevant HSE objectives and ensuring resources are in place to achieve those.

HSE OMS

AEC Health, Safety, Security, Environment and Social Responsibility Operating Management System (HSE-OMS) provides a framework for a company-wide integrated approach to Risk and Opportunity Management.

We conduct risk assessments for each site, on all activities from product development to customer support, and implement controls to reduce the risks to as low as reasonably practicable.

We analyze incidents and potential incidents to prevent recurrence with a focus on high-risk activities. Opportunities for improvement are assessed and implemented as appropriate.

We ensure the competency of our employees through HSE training programs.

Line management regularly reviews HSE risk controls, rewards performance and demonstrates continual improvement.

Partners

AEC selects partners and contractors acknowledging our HSE principles and supports them in fulfilling their responsibilities.

We openly engage and dialogue on HSE with our main stakeholders and publicly disclose our performance.

Past Projects (Civil)

Sr. No.	Description of Works	Client	Start	End
1	Al Aballah School rehabilitation	Save The Children Organization	2004	2004
2	Construction of a laboratory for Medicine Collage	UN	2006	2006
3	Construction of Al-Ferzdaq Secondary School In Al Qurna.	UN	2006	2006
4	Rehabilitation of the roofing of Arts Collage	Government Of Basrah	2006	2006
5	Construction of Civil Engineering department building in Bab Al Zubair	SOC	2006	2007
6	Construction of Dormitories	Thi-Qar University	2007	2007
7	Construct of AL_Hurria Diesel Power Plant 62MW (Wartsila10x6.2 MW).	Ministry of Industry	2007	2007
8	Al Furat River stone laying	Water resources directorate	2008	2008
9	Al Habanya Base projects	Areebel	2009	2009
10	Construction of Service & administrative Buildings for new Maysan refinery	Maysan refinery	2009	2009
11	Construction of MCC Building for AL_ Qudes Power	State company for industrial design	2009	2009
12	Tunnel excavation for the sport city feeding pipe	Youth Ministry	2011	2011
13	Al Fyhaa bridge rehabilitation	Road and bridges directorate of Basrah	2011	2012
14	Construction of concrete cooling towers with different capacities at the South Refineries Co. site	State Company for Industrial Design	2011	2012
15	Supply concrete for SRC projects	South Refineries Company	2013	2013
16	Construction of water treatment Unit with capacity of (2000m3/day) at the SRC	State Company for Industrial Design	2013	2014
17	Implementation of Water Treatment plant 10,000m3/h for Basra Sport City	Ministry of Sports	2013	2014
18	Supplying and install 4 units of water treatment for Hay Al Hussain Water project in Basrah , capacity of each unit is 400 m3/h	Basra Water directorate	2016	2016
19	Supplying and install 4 unit of water treatment for Shat Al Arab Water project in Basrah , each unit capacity is 400 m3/h	Basra Water directorate	2015	2016
20	Design and construction of Square shoot for 10th battalion in Nasryah.	Corps of Engineers	2015	2016
21	Rehabilitation of al garage pump station and construction the Administration buildings, Service buildings and generator room ,Site works, Civil works for sewage collecting tank and Warehouse shed	Basra sewer directorate	2015	2016
22	Supply material, equipment and labors to construct a complete packaged sewage treatment plant and standby generator suitable for a population equivalent of 50,000 people as in the design drawings and the specification	Basra sewer directorate	2015	2016
23	Design and construction of Al-Sabla canal of lining and the work is including, excavation, dewatering and pouring concrete	Ministry of Water Resource	2016	2017

24	The installation of 11KV, 22 KV and 33KV, substations. Our services also include CT, PT & LA, Isolators, gantries and towers	JCCI/Babil	2016	2017
25	Construction of Emergency building in Azubair Hospital in Basrah Governorate (2000m2) with 2 stories, this project including Excavation and filling, and concrete works for fundation, columes, slabs, ... (more than 2000m3 reinforced concrete)	Basrah support rebuild and services committee	2016	2017
26	Equipment's Installation of Liquefied Petroleum Gas Unit/ at the South Refineries Co	South Refineries Company	2017	2017
27	Rehabilitation of Khalid Bridge at Basra city (consist of support, pilling, Lifting	Ministry of Housing & Construction	2017	2017
28	Supply and installation of 730 concrete pile	General Company for South Oil Refineries	2017	2017
29	Implementation of the earthworks for the Fluidized Catalytic Cracking project (4 million m3) at the site of south refineries	State Company for Industrial Design	2016	2017
30	Steel Structure for AL-Shabah printing house	Ministry of Industry	2016	2017
31	Rehabilitation of ALBUFRAJ Bridge	Directorate of Roads and Bridges	2016	2017
32	Fluidized Catalytic Cracking-FCC (Extensional Adjacent Area)	State Company for Industrial Design	2016	2017
33	Installation of Mechanical, Electrical and Instrument works such 1. Static Equipment Installation 2. Rotary Equipment Installation 3. Piping Installation 4. Valves Installation 5. Supports 6. NDT 7. Hydro-Test 8. Sand Blast 9. Painting 10. Flushing 11. Pre commissioning 12. Cable Installation 13. LV Transformer 14. ML Transformer 15. Electrical Equipment Installation 16. Electronic Equipment Installation 17. Power Panels 18. Power Generator Installation	Petrofac International (UAE) LLC .	2017	2018
34	Providing all the requirement and manpower to provide 125m3 + 175 m3 of Fire Protection Concrete	Sajer	2017	2018
35	First Commercial and Production (FCP) Garraf Oil and Gas project in Southern Iraq. The project includes the EPC of storage tanks and the construction of piping systems, process units, LP & ATM. The current FCP Garraf project is designed for 100kbpd oil from the Mishrif formation utilizing two (2) oil processing trains of 50 kbpd capacity each.	Lakeshore Toltest Corporation	2017	2018
36	Design and Engineering , Procurement , Construction and commissioning of Basrah Crude Distillation No.4 Unit , LPG Unit and Boiler	TECHNOEXPORT	2018	2018

37	Installation of prefabricated steel structural buildings for LCR ,LER ,Gurd House and four guard towers each one consist of three stories. The project is located in WQ1, the work includes but not limited steel structure installation, electrical work, cable try installation, HVAQ system installation, G&F system.	EMIL	2018	2019
38	Installation of prefabricated steel structural building for LCR ,The project is located in WQ1, the work includes but not limited steel structure installation, electrical work, cable try installation, HVAQ system installation, G&F system	EMIL	2018	2019
39	Providing various required Scaffolding along with required skilled manpower, Scaffolding materials. The scope will start from mobilization/ demobilization of skilled & experienced manpower, required scaffolding materials, equipments, tools & tackles to COMPANY site for erecting or dismantling of Scaffolding as per COMPANY Scaffolding procedures and permit requirements and the types of scaffolding is including but not limited to the following : 1. Supply and install Tube and Coupler cantilever scaffolding type. 2. Supply and Install Tube and Coupler suspendable scaffolding Type. 3. Supply and install Tube and Coupler mobile Scaffolding type. 4. Supply and install Tube and Coupler Tower scaffolds type.	Bp Iraq N.V	2018	2019
40	Installation of Mechanical, Electrical and Instrument works such as vessels, pumps, electrical panels, .. Etc.	STX/SOC	2018	2019
41	Installation of Piping and Pipeline	ZFOD	2017	2020
42	Mechanical,Electrical,Insrtrumentationa and Piping works at Badra Oil Field	Petrofac	2017	2020
43	1. Provisions of competent, experienced and a professional manpower and equipment/vehicle as further described in this scope of service to support: • Pre commissioning • Commissioning • Maintenance • Shutdown activities • Scaffolding Services	Petrofac International (UAE) LLC .	2018	2020
44	Water Station supply & Installation	Haione Ind Co.Ltd.	2020	2020
45	Site Preparation Work	Hyundai Livert	2021	2021
46	Equipment Supply	Haione Ind Co.Ltd.	2021	2021
47	Site Preparation for Laydown area	Hyundai Engineering	2021	2021
48	T-Wall & Site Preparation for Camp Area	Hyundai Livert	2021	2021
49	Rental Caravan Supply	Haione Ind Co.Ltd.	2021	2021
50	Concrete Slab for water Station (Supply & installation)	Haione Ind Co.Ltd.	2021	2021
51	Supply of Material (Soil)	Hyundai Engineering	2021	2021
52	Asphalt Road Paving Work For Temporary Facilities	Hyundai Livert	2021	2021
53	Supply & Installation of Masque Tent	Hyundai Engineering	2021	2021
54	Supply of Well graded granular (16mm-50mm)	Hyundai Engineering	2021	2021
55	Geogrid Mixing & Installation Work	Hyundai Engineering	2021	2021
56	RO tank foundation Work	Haione Ind Co.Ltd.	2021	2021

Past Projects (Mechanical)

Sr. No.	Description of Works	Client	Start	End
1	Water pipe installation to Al Mayahe Street in Abu Al Khaseeb	Save The Children Organization	2004	2004
2	Pipeline installation (28 in) from Sweeb station to Majnoon oil field	SOC	2006	2007
3	Construction of Service & administrative Buildings for new Maysan refinery	Maysan refinery	2009	2009
4	Installation of Hydrogenation unit pressure plants at South Refinery Co. site	State Company for Industrial Design	2011	2012
5	Construct of Baiji GasTurbine power plant 6x160MW sgt5-pack2000E siemens	Ministry of Electricity	2012	2012
6	Rehabilitation of pumps, motors, generators, power and control cables, and electrical panels	Water directorate-Basra	2013	2014
7	Design and construction of water pipe line at Al-Meshraq Area.	Mott MacDonald	2013	2014
8	Paving and repair of Al Tamimiyah Road ,including excavation, filling, grading, compacting, leveling and paving with asphalt, of 10Km length. The works includes concrete works for intersections of 25cm depth and total 1400 m3.	Ministry of Municipalities and Public Works	2013	2014
9	Construction of water treatment Unit with capacity of (2000m3/day) at the SRC	State Company for Industrial Design	2013	2014
10	Implementation of Water Treatment plant 10,000m3/h for Basra Sport City	Ministry of Sports	2013	2014
11	Excavation Laying of pipeline (1000 mm. Dia.x18KM.L) from pump station to Water Water pipe feeding (900 mm) Dia, 18 km length for Basra Sport city	Ministry of Sports	2013	2014
12	Ductile Pipeline,22 Km length in AL-Nasiriya Industrial City	Ministry of Industry	2013	2014
13	Supply material, equipment and labors to Excavation, supplying and Laying sewer network piping and manholes for Hay Al Hussain	Basra sewer directorate	2015	2015
14	Supply and install difference size of pipes, Replace unsuitable materials, Reinstatement and other works for successfully finishing project	Basra Water directorate	2015	2015
15	Design and construction of a pump system with piping for KHOR AL ZUBYAR harbor.	Iraqi tankers co.	2015	2015
16	Fabrication , welding and laying pipe line and pipe fittings at Majnon Oilfield – Basra - Iraq	Shell - Iraq	2015	2015
17	Supply material, equipment and labors to supplying and install (INLET CHAMBER , TRASH SCREEN, LIFTING CRANES, SUBMERSIBLE PUMPS, PIPING AND FITTINGS) , including all necessary buildings and fences.	Basra sewer directorate	2015	2015

18	Install the water pipes network containing supply and install difference size of pipes, Replace unsuitable materials and other works for successfully finishing project	Basra Water directorate	2014	2015
19	Supplying and install 4 units of water treatment for Hay Al Hussain Water project in Basrah , capacity of each unit is 400 m3/h	Basra Water directorate	2016	2016
20	Maintenance and Widening Bradhyaa Water Project including supply and install different sizes of pipes, maintenance all water pumps, filters, valves and other works for project success	Basra Water directorate	2015	2016
21	Supplying and install 4 unit of water treatment for Shat Al Arab Water project in Basrah , each unit capacity is 400 m3/h	Basra Water directorate	2015	2016
22	Rehabilitation of al garage pump station and construction the Administration buildings, Service buildings and generator room ,Site works, Civil works for sewage collecting tank and Warehouse shed	Basra sewer directorate	2015	2016
23	Supply material, equipment and labors to construct a complete packaged sewage treatment plant and standby generator suitable for a population equivalent of 50,000 people as in the design drawings and the specification	Basra sewer directorate	2015	2016
24	Piping Process networks for AL-Shaiba Refinery including : sandblasting , welding , NDE ,PWHT Thermal Insulation , cladding and coating	South Refineries	2015	2016
25	Line Polyethylene water pipeline network in the 14 Tamoze street size 500 mm and 450 mm	Basra Water directorate	2016	2017
26	Fabrication, welding and laying pipe line with installing manifold and pipe fittings at Majnon Oilfield	Shell - Iraq	2016	2017
27	The installation of 11KV, 22 KV and 33KV, substations. Our services also include CT, PT & LA, Isolators, gantries and towers	JCCI/Babil	2016	2017
28	Equipment's Installation of Liquefied Petroleum Gas Unit/ at South Refineries Co	South Refineries Company	2017	2017
29	Hydro test and Pneumatic test at Badra CPF	Petrofac	2018	2018
30	Installation of Mechanical, Electrical and Instrument works such 1. Static Equipment Installation 2. Rotary Equipment Installation 3. Piping Installation 4. Valves Installation 5. Supports 6. NDT 7. Hydro-Test 8. Sand Blast 9. Painting 10. Flushing 11. Pre commissioning 12. Cable Installation 13. LV Transformer 14. ML Transformer 15. Electrical Equipment Installation 16. Electronic Equipment Installation 17. Power Panels 18. Power Generator Installation	Petrofac International (UAE) LLC .	2017	2018

31	Fabrication, welding and installing flow line and piping system will all pipe fittings at Hamar Mushrif gas compressor station Basra - Iraq	ENI	2017	2018
32	First Commercial and Production (FCP) Garraf Oil and Gas project in Southern Iraq. The project includes the EPC of storage tanks and the construction of piping systems, process units, LP & ATM. The current FCP Garraf project is designed for 100kbpd oil from the Mishrif formation utilizing two (2) oil processing trains of 50 kbpd capacity each.	Lakeshore Toltest Corporation	2017	2018
33	The project is EPCC of the export pipeline for Garraf Contract Area to export the crude oil from the FCP at Garraf to Ahdep Pipeline which exports the crude oil further to the government depot at Nasseryah city.The project consists of 8km of 18" pipeline with the related facilities such as fiber optic, leak detection system, launching and receiving stations, 2 block valve stations and the required tie-ins.	Petronas Caligari Iraq Holding B.V.	2017	2018
34	Scope of Work in KAZ area as follow: • Installation and hook-up of gas treatment facility. • Erection of ME&I equipment and structures • Tie-ins in gas treatment facility existing • Interconnecting to gas treatment facility • Installation of power and control cables. • Installation of piping system with all insulation works	KBR	2017	2018
35	Complete of the external evaluation of the crude oil export pipeline in Bazargan – ALFAO	State Company for Inspection &Engineering Rehabilitation (SIER)	2017	2018
36	Design and Engineering , Procurement , Construction and commissioning of Basrah Crude Distillation No.4 Unit , LPG Unit and Boiler	TECHNOEXPORT	2018	2018
37	Hvac Works For Control & Substation Buildings :Supply And Install Galvanized Steel With Corosion Resistance Coating And Insect Screen, Galvanized Steel Frame, Blade & Accesoreis. Stainless Steel Frame, Blade & Accessories, Low Leakage Type, Amca Class li (Min.)	CCC/Shell	2018	2019
38	Installation of prefabricated steel structural buildings for LCR ,LER ,Gurd House and four guard towers each one consist of three stories. The project is located in WQ1, the work includes but not limited steel structure installation, electrical work, cable try installation, HVAQ system installation, G&F system.	EMIL	2018	2019
39	Heat Exchahnger Rehabilitation Service	Bp Iraq NV	2017	2019
40	Installation of prefabricated steel structural building for LCR ,The project is located in WQ1, the work includes but not limited steel structure installation, electrical work, cable try installation, HVAQ system installation, G&F system	EMIL	2018	2019
41	Providing various required Scaffolding along with required skilled manpower, Scaffolding materials. The scope will start from mobilization/ demobilization of skilled & experienced manpower, required scaffolding materials, equipments, tools & tackles to COMPANY site for erecting or dismantling of Scaffolding as per COMPANY Scaffolding procedures and permit requirements and the types of scaffolding is including but not limited to the following 1. Supply and install Tube and Coupler cantilever scaffolding type. 2. Supply and Install Tube and Coupler suspendable scaffolding Type. 3. Supply and install Tube and Coupler mobile Scaffolding type. 4. Supply and install Tube and Coupler Tower scaffolds type.	Bp Iraq NV	2018	2019

42	Installation of Mechanical, Electrical and Instrument works such as vessels, pumps, electrical panels, .. Etc.	STX/SOC	2018	2019
43	Installation of Piping and Pipeline	ZFOD	2017	2020
44	Mechanical,Electrical,Insrtrumentationa and Piping works at Badra Oil Field	Petrofac	2017	2020
45	1. Provisions of competent, experienced and a professional manpower and equipment/vehicle as further described in this scope of service to support: • Pre commissioning • Commissioning • Maintenance • Shutdown activities • Scaffolding Services	Petrofac International (UAE) LLC .	2018	2020
46	Water Station supply & Installation	Haione Ind Co.Ltd.	2020	2020
47	Water Pipeline for Water Station (Supply & Installation)	Haione Ind Co.Ltd.	2021	2021
48	UG Utility Piping Work	Hyundai Livert	2021	2021

10	The installation of 11KV, 22 KV and 33KV, substations. Our services also include CT, PT & LA, Isolators, gantries and towers	JCCI/Babil	2016	2017
11	Installation of a new electrical network by: Supply & installation of an over head line 200 circular & 38 lattice steel poles. Supply & installation of 10 transformers (Capacity 250KVA) with accessories	Mott MacDonald	2016	2017
12	Equipment's Installation of Liquefied Petroleum Gas Unit/ at the South Refineries Co	South Refineries Company	2017	2017
13	Installation of Mechanical, Electrical and Instrument works such 1. Static Equipment Installation 2. Rotary Equipment Installation 3. Piping Installation 4. Valves Installation 5. Supports 6. NDT 7. Hydro-Test 8. Sand Blast 9. Painting 10. Flushing 11. Pre commissioning 12. Cable Installation 13. LV Transformer 14. ML Transformer 15. Electrical Equipment Installation 16. Electronic Equipment Installation 17. Power Panels 18. Power Generator Installation	Petrofac International (UAE) LLC .	2017	2018
14	First Commercial and Production (FCP) Garraf Oil and Gas project in Southern Iraq. The project includes the EPC of storage tanks and the construction of piping systems, process units, LP & ATM. The current FCP Garraf project is designed for 100kbpd oil from the Mishrif formation utilizing two (2) oil processing trains of 50 kbpd capacity each.	Lakeshore Toltest Corporation	2017	2018
15	Design , Supply , Installation , Testing & Commissioning of Substation on Turnkey	GE	2018	2018
16	Design and Engineering , Procurement , Construction and commissioning of Basrah Crude Distillation No.4 Unit , LPG Unit and Boiler	TECHNOEXPORT	2018	2018
17	Electrical and Instrumentation Work (Cable laying, Cable tray & Cable support Installation, cable termination, Instrumentation Works)	CCC/Shell	2018	2019
18	Installation of prefabricated steel structural buildings for LCR ,LER ,Gurd House and four guard towers each one consist of three stories. The project is located in WQ1, the work includes but not limited steel structure installation, electrical work, cable try installation, HVAQ system installation, G&F system.	EMIL	2018	2019
19	Heat Excahnger Rehabilitation Service	Bp Iraq N.V	2017	2019
20	Installation of prefabricated steel structural building for LCR ,The project is located in WQ1, the work includes but not limited steel structure installation, electrical work, cable try installation, HVAQ system installation, G&F system	EMIL	2018	2019

Past Projects (E&I)

Sr. No.	Description of Works	Client	Start	End
1	Installation of 132 kv GIS Substation At Washash Substation	Washington Group Co.	2008	2008
2	Construction of Service & administrative Buildings for new Maysan refinery	Maysan refinery	2009	2009
3	Construct of Baiji GasTurbine power plant 6x160MW sgt5-pack2000E siemense	Ministry of Electricity	2012	2012
4	Construction of water treatment Unit with capacity of (2000m3/day) at the SRC	State Company for Industrial Design	2013	2014
5	Implementation of Water Treatment plant 10,000m3/h for Basra Sport City	Ministry of Sports	2013	2014
6	Supplying and install 4 units of water treatment for Hay Al Hussain Water project in Basrah , capacity of each unit is 400 m3/h	Basra Water directorate	2016	2016
7	Supplying and install 4 unit of water treatment for Shat Al Arab Water project in Basrah , each unit capacity is 400 m3/h	Basra Water directorate	2015	2016
8	Rehabilitation of al garage pump station and construction the Administration buildings, Service buildings and generator room ,Site works, Civil works for sewage collecting tank and Warehouse shed	Basra sewer directorate	2015	2016
9	Supply material, equipment and labors to construct a complete packaged sewage treatment plant and standby generator suitable for a population equivalent of 50,000 people as in the design drawings and the specification	Basra sewer directorate	2015	2016

21	Providing various required Scaffolding along with required skilled manpower, Scaffolding materials. The scope will start from mobilization/ demobilization of skilled & experienced manpower, required scaffolding materials, equipments, tools & tackles to COMPANY site for erecting or dismantling of Scaffolding as per COMPANY Scaffolding procedures and permit requirements and the types of scaffolding is including but not limited to the following : 1. Supply and install Tube and Coupler cantilever scaffolding type. 2. Supply and Install Tube and Coupler suspendable scaffolding Type. 3. Supply and install Tube and Coupler mobile Scaffolding type. 4. Supply and install Tube and Coupler Tower scaffolds type.	Bp Iraq N.V	2018	2019
22	Installation of Mechanical, Electrical and Instrument works such as vessels, pumps, electrical panels, .. Etc.	STX/SOC	2018	2019
23	Electrical Infrastructure Installation	ExxonMobil	2019	2020
24	Installation of Piping and Pipeline	ZFOD	2017	2020
25	Mechanical, Electrical, Instrumentation and Piping works at Badra Oil Field	Petrofac	2017	2020
26	1. Provisions of competent, experienced and a professional manpower and equipment/vehicle as further described in this scope of service to support: • Pre commissioning • Commissioning • Maintenance • Shutdown activities • Scaffolding Services	Petrofac International (UAE) LLC .	2018	2020
27	Water Station supply & Installation	Haione Ind Co.Ltd.	2020	2020

Our Clients





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