EPC
Engineering, Procurement & Construction

Consolidated Contractors Company
CCC Your EPC Company of Choice

Leader in Engineering, Procurement and Construction in the Middle East.

Over half a century of successful execution of projects with the highest management commitment to client’s satisfaction, HSE, Quality and Social Responsibility.

Ranked consistently within the first 20 international contractors by Engineering News Record (ENR) magazine.

Extensive manpower and construction equipment resources.

Unmatched flexibility and quick decision making.

State of the art IT systems and seamless project controls.

Entrusting CCC with the full EPC scope of a project, ensures a one team approach towards achieving client’s satisfaction and avoiding potential conflicts of interest between Engineering, Procurement and Construction teams as is often the case when a project is divided into two contracts (EP and C).
The Consolidated Contractors Group

CORPORATE OVERVIEW
A major player in Engineering, Procurement, Construction and Project Management.

Consolidated Contractors Group, better known as CCC, is one of the largest Engineering, Procurement & Construction companies in the Middle East. CCC is a privately owned company (founded over 50 years ago), having its headquarters in Athens, Greece with offices around the World and 125,000 employees. CCC’s revenue more than quadrupled in the past five years to record levels which in 2008 exceeded US$4 billion. Engineering News Record (ENR) magazine has named CCC the Top Construction Contractor for the Middle East Region for the past ten years and ranked CCC as 19th Top International Contractor Worldwide for the year 2009.

CCC has a diverse portfolio including oil and gas plants, refineries and petrochemical facilities, pipelines, power and desalination plants, light industries, water and sewage treatment plants, airports and seaports, heavy civil works, dams, reservoirs and distribution systems, road networks and high rise buildings.

CCC has excelled in challenging projects and in working in remote locations, bringing an unmatched combination of knowledge, skill, experience, and commitment to every project to the complete satisfaction of its clients.

CCC, in line with its corporate social responsibility policy, implements policies that help to improve the quality of life of the local communities and enrich local economies wherever it executes projects.

CCC’s culture is grounded in integrity and it abides by the highest standards of ethical business culture.

CCC’s policy is to strive for the satisfaction of its valued customers and to achieve business excellence.

HEALTH, SAFETY AND THE ENVIRONMENT
Our Goal: Zero Accidents

CCC has a world-class Health, Safety & Environment (HSE) program setting the standards with record performance on numerous mega projects around the world. CCC’s commitment to the health, safety and the environment filters all the way down from the highest ranks in the company resulting in an outstanding track-record on projects completed each year without a lost-time accident. CCC’s HSE Management System is certified by Bureau Veritas to ISO 14001 for Environmental Management Systems, setting the highest levels for environmental compliance to International Standards. CCC’s HSE Management System is also certified to the Occupational Health and Safety Assessment Series (OHSAS) standard 18001.

QUALITY
Adhering to Quality Standards

CCC operates a fully documented Quality Management System in compliance with ISO 9001 and is certified by Bureau Veritas, addressing all the criteria referenced within the standards. CCC’s reputation for adhering to these standards is one of its most valuable assets. CCC’s quality system covers all aspects of the company’s operations and is supported by various levels of documentation.
EPC Value Chain

SERVICES PROVIDED

- Health, Safety & Environment
- Quality Assurance & Control
- Geographic Information Systems
- Cost Estimation & Proposals
- Conceptual and Preliminary Design
- Detailed Design & Engineering
- Planning & Scheduling
- Procurement
- Construction Management
- Fabrication
- Field Construction & Installation
- Pre-commissioning / Commissioning / Start-up
- Facilities Management
- Operation & Maintenance

FORMS OF CONTRACT

- EPC Contracts
- Convertible Lump Sum Turnkey Contracts (CLSTK)
- Build / Own / Operate / Transfer (BOO / BOT / BOOT)
- Design / Build
- Cost Reimbursable
- Re-measurable

INDUSTRIES

- Oil & Gas Production (Upstream)
- Pipelines
- Power & Desalination Plants
- Water & Sewage Treatment Plants
- Heavy Civil Works
- Transportation, Roads & Bridges
- Airports & Seaports
- Networks and Infrastructures
- Commercial & Institutional Buildings
- High Quality Buildings
  & High Rise Buildings
CCC offers full Engineering and Design services covering the following:

- Process Engineering (Oil & Gas Upstream Plants)
- Pipelines
- Mechanical equipment (static, rotating, heat exchangers, etc) design and selection
- Electrical
- Instrumentation and Controls
- Telecommunications.
- Buildings
- Civil Works
- Water Treatment and Networks
- Sewage Treatment and Networks

CCC’s engineering offices in Abu Dhabi, U.A.E., includes a permanent core staff of about 350 qualified and experienced professionals, capable of providing over 700,000 engineering man-hours per year. Additional engineering and drafting man-hours can be mobilized quickly to cater for increases in workload.

CCC uses an array of CAD/CAE Design software packages that enables it to deliver designs of high quality to clients. The design software packages are also tightly integrated between the various engineering disciplines.

Software in use include HYSYS, HTRI, PDS, MARIAN, SmartPlant P&ID, Intools, CAESAR II, ETAP, STAAD Pro, etc.

CCC is continuously engaged in research and development to enhance quality and productivity during the engineering, procurement and construction phases of projects. Areas of R&D include development of in-house software and new workflows, as well as acquiring and implementing the latest design technology available for EPC projects such as laser scanning of existing facilities for revamp projects, and plant lifecycle data standardization (ISO-15926). CCC in-house software cover specialized requirements as well as gaps between commercially available software.

CCC has established a strong and reliable communications backbone that enables multi-location engineering and procurement collaboration activities, and facilitates optimal and timely exchange of information with job sites and client’s offices.

<table>
<thead>
<tr>
<th>Company</th>
<th>Annual Engineering Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCC</td>
<td>600,000 - 800,000 HRS.</td>
</tr>
<tr>
<td>SICON (Milan - Italy)</td>
<td>300,000 - 350,000 HRS.</td>
</tr>
<tr>
<td>ACWA (Skipton - U.K.)</td>
<td>90,000 - 110,000 HRS.</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>990,000 - 1,260,000 HRS.</strong></td>
</tr>
</tbody>
</table>
Consolidated Contractors

Procurement Services

CCC’s Central Procurement Department in Abu Dhabi provides a full range of professional procurement services to all company projects aimed at achieving the main objectives of procuring the project materials, equipments and services on time and to the specified quality.

The Central Procurement Department performs its duties according to an ISO 9001-2000 approved procurement manual.

In addition to the above, CCC’s E-Procurement Department, based in Dubai has added remarkable contributions to CCC’s procurement capabilities through establishing a unified CCC materials catalogue with standard materials coding, introducing Supply Agreements for standard projects items, identifying competitive sources of materials and providing on-line procurement services.

The Procurement scope of services covers the following activities:

- Purchasing/Sourcing and Market Expertise
- Desk and Shop Expediting Services
- Quality Surveillance (Test / Inspections)
- Traffic & Logistics Expertise
Utilising teams of experienced construction specialists, CCC offers a complete range of capabilities in the field of construction.

CCC’s international experience and network of construction resources, its extensive experience with local country laws and regulations, as well as its ability to adapt quickly to the new requirements of new locations, all facilitate its Project Management in efficiently and quickly mobilizing construction equipment and construction crews. CCC has excelled and is well known in its ability to manage construction workforces that include several ethnic, religious and political backgrounds.

CCC’s declared policy of always employing and training local labour to the degree possible is always an added value to each project and to the local economy.

**Fields covered include:**
Building works, civil engineering, mechanical equipment erection, piping erection, electrical & instrumentation installation, construction of pipelines, electromechanical and HVAC services for building works and specialist finishing trades.

Sophisticated management controls are used for planning and monitoring large complex projects in order to ensure safe, timely and effective quality construction.

CCC has access to a large pool of human resources trained by CCC over the years and a fleet of construction plant owned by CCC, valued at over US $840M.

Successful performance to rigorous safety standards is demonstrated by the award of several industry commendations such as the safety award for the 34 million man-hours achieved without Lost Time Accident (LTA) in the Onshore Gas Development Phase II project, Abu Dhabi and 104 million man-hours without LTA in the Khurasaniyah Gas Project in Saudi Arabia.
ACWA Services Limited

Skipton, North Yorkshire - England

PROFILE
Founded in 1986, ACWA is a Design, Project Engineering and Construction Company offering a total service to the Air, Water and Effluent Treatment industries including Reverse Osmosis Desalination Plants. ACWA was acquired by CCC in 1991 and integrated into the CCC Group.

SERVICES
ACWA Services Ltd is a process engineering and mechanical, electrical, instrumentation, control and automation (MEICA) engineering company providing a design and build (turnkey) service for air, water and effluent treatment systems.

ACWA’s Air Pollution and Control Division, ACWA Air, offers a complete range of gas scrubbing systems and thermal oxidizers which meet the most stringent emission regulations now being imposed on industry. ACWA’s Water Treatment Systems offers a complete range of membrane processes including reverse osmosis, ultra filtration and micro filtration. The range includes fully engineered desalination systems, packaged marine plants, leachate treatment, Silt Density Index (S.D.I.) reduction, colour removal, specialist liquid operation techniques, effluent concentration and its purification for re-use.

ACWA promotes the sale of Sewage Treatment Equipment which, with its expertise and comprehensive product portfolio, ensures that optimum solutions are achieved. In-house products include mechanical and bubble aeration, clarifiers, picket fence thickeners and complete package sewage treatment plants. ACWA’s Quality Management System and Environmental Management System are certified by Lloyds Register Quality Assurance as conforming to BS EN ISO 9001:2000 and 14001.

Sicon Oil & Gas

Milan - Italy

SICON OIL & GAS is a strategic venture that was established by Consolidated Contractors Group and Rolle S.P.A of Italy, offering Italian expertise in the Engineering, Procurement and Construction fields to the Oil and Gas Industry.

Sicon Oil & Gas was formed in 1992 and has gradually expanded its fields of activities to cover Oil and Gas Upstream Projects. Sicon undertakes full responsibility from Process Design to Plant Startup, including Design & Detailed Engineering, Project Management, Procurement Services, Pre-commissioning, Commissioning and Training. Sicon has arranged Italian export credit financing (Sace) for numerous projects.

The experience of Sicon Oil & Gas has evolved to encompass:
1. Upstream Oil and Gas Field Development, including Gathering, Separation, Gas and Oil treatment and Re-injection facilities.
2. Midstream Oil and Gas Conveyance System, including Gas and Oil Pipelines, Gas Compression and Pumping Stations, Tank Farms and Metering, Gas Pressure Reduction Stations and Fuel Gas Supply to Power Plants.

Sicon Oil and Gas, as of late, has been involved in the Distribution of Gas to Industrial and Domestic Users in various countries (e.g. Egypt). Such projects include the supply of Pressure Reduction Stations, High Pressure Pipe Lines, Medium Pressure Pipe Lines and a Distribution Network connecting the end users.
The purpose of the project was the provision of a common cooling seawater system to cater for the needs of future industries and for the expansion of the existing LNG plants operating inside Ras Laffan Industrial City. The intention of constructing this common facility is to make it more efficient and economical to provide cooling water to various customers inside RLIC from a common seawater intake system and to distribute, collect, and discharge the return to the sea via a common discharge system.

The total flow requirement for all consumers is 966,000 m$^3$/hr, out of which a flow of 308,000 m$^3$/hr was made available following the completion of the construction of this project.

The works comprised the engineering, design, procurement, construction, inspection, pre-commissioning, commissioning, start-up, and two and a half years operation and maintenance of the following facilities:

- Seawater intake
- Seawater pump house system
- Hypochlorite injection system
- Distribution and collection piping system (steel & GRP up to 3500mm diameter).
- Discharge system
- Consumer interface system
- Related electrical instrumentation, auxiliary and ancillary facilities such as buildings.
The primary objective of the Project is to process the additional quantities of associated low-pressure gases that are available from ADMA-OPCO as oil production is to be increased to 600,000 BPD.

The Onshore Pipeline runs from the western shoreline west of the headland at Ra’s Al Qila and heads south to intersect the Abu Dhabi to Ruwais highway and then heads further south to where it meets the Ruwais to Habshan pipeline corridor.

CCC’s scope of work consists of Design, Engineering, Construction, Commissioning and Testing of the following facilities:

96 kms, 30 inch diameter carbon steel onshore dense phase sour gas pipeline with a design pressure of 171 barg, running from landfall at Ras Al Qila to Habshan Plant including 6 no. valve stations and a scraper receiver station.

The new Habshan facilities consisting of two process units for feed separation, stabilization and vapour recompression including:

- Scraper Receiver
- Preheater
- HP and MP Separators
- Stabiliser
- Two 50% Motor driven Vapour Recompressors.
- 5 km 12” diameter carbon steel NGL Pipeline from Habshan to Bab, including scraper launcher at Habshan and scraper receiver at Bab.
- Debutaniser column
- Tie-in points to existing plant and new plants for process units, utilities and off-sites for piping, instrumentation and electrical.
Shaybah Infrastructure - Residential & Industrial Complex
Saudi Arabia

**Location:** Shaybah, Saudi Arabia

**Client:** Saudi Aramco

**Value:** US$ 230 Million

**Contract Duration:** 26 Months

**Completion Date:** December 1998

**Type of Contract:** EPC Lump Sum Turnkey

**Scope of Work**

The Shaybah Field is located roughly 612 kms southeast of Abqaiq in a hyper-arid region of Saudi Arabia, commonly referred to as the Empty Quarter. The field is approximately 64 kms long and 12 kms wide. The approximate size of the site is 1.00 MM m². The Infrastructure project for the Shaybah Oil Field consisted of detailed design, procurement and construction of:

1. **Residential Complex** (Total Complex area approx. 150,000 m², total built-up area 63,588 m²).
   - Seven 3 storey permanent residential buildings to house 890 people, each of 5,800 m² built-up area.
   - One storey clinic (435 m²), indoor and outdoor recreation areas (4,620 m²), mosque (495 m²), kitchen and dining hall (2,700 m²).
   - Two storey administration buildings (2,700 m²).

2. **Industrial Complex** (Complex area approx. 180,000 m², total built-up area 14,762 m²)
   - Pre-engineering steel Industrial facilities including maintenance workshops, materials storage building, storage yards (7,000 m²), fire station, fuel station, and ice plant.

3. **Airstrip and aviation facilities** (Total built-up area 2,743 m²) including a 3.3 km long concrete runway, apron, taxi ways, terminal and ground support equipment buildings, hangar, jet fueling facilities, visual and electronic navigation aids and cargo shelter.

4. **Connector roads** (approximately 50 km long, 7 m wide) and 10 km of fencing.

5. **Sewage treatment plant**, waste disposal sites, electrical substations, and all associated electrical and non-electrical utilities, which included water tanks and pumping facility for potable and firewater in addition to sanitary sewer lift stations. A central chilled water plant of 3,200 refrigeration tons served the Complex.

6. **Site development and grading** for the above facilities, street paving, lighting, and irrigation.
   - Excavation: 8 Million m³
   - Pad and road embankment: 5 Million m³
**Doha South Sewage Treatment Plant**

**Qatar**

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Doha South Sewage Treatment Plant, Phase IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Doha, Qatar</td>
</tr>
<tr>
<td>Client</td>
<td>Public Works Authority (ASHGHAL)</td>
</tr>
<tr>
<td>Contract Value</td>
<td>US$ 42 Million</td>
</tr>
<tr>
<td>Contract Duration</td>
<td>40 Months</td>
</tr>
<tr>
<td>Completion Date</td>
<td>August 2007</td>
</tr>
<tr>
<td>Type of Contract</td>
<td>EPC Lump Sum Turnkey</td>
</tr>
</tbody>
</table>

The project comprised the Design, Procurement and Construction of an additional treatment system, modification to the existing works and improvements to the sludge treatment stream to meet the flows and loads expected by the year 2013.

The average flow to be accommodated was 1,230 lit/sec, with a daily peak flow of 1,535 lit/sec and a maximum pumping capacity of 4,241 lit/sec.

The principal elements of the works are as follows:

- New inlet structure including incoming mains reception chamber, screening and grit removal.
- Chamber to distribute the flow between the existing works and the additional treatment stream.
- 8 no. sequencing batch reactor basins.
- 8 no. complete aeration tanks 10,000 m³ each.
- Conversion of 4 no. existing secondary sludge digestors, each 4,000 m³, to aerobic digestion.
- Odor control plant design for 1,000 ppm of H₂S.
- Associated control and blower buildings
- Inter-process piping
- Transformers and standby generators.
- Electrical and power distribution, 11 KV substation, street lighting, lightning protection, telemetry and SCADA system to include monitoring and PLC control for the whole works.
- Site access roads, curbs, soakaways, gullies, street lighting and site lighting.
- Landscaping and Irrigation.
Khafji Field Development, Phase 1 - Onshore Facilities

Saudi Arabia

Project: Khafji Field Development, Phase 1 – Onshore Facilities
Location: Al Khafji, Saudi Arabia
Client: Al Khafji Joint Operations (KJO)
A partnership between Kuwait Gulf Oil Company (KGOC) & Aramco Gulf Operations Company (AGOC)

Contract Value: US$ 507 Million
Contract Duration: 38 Months
Completion Date: October 2009
Type of Contract: EPC Lump Sum Turnkey

Al-Khafji Field Development Plan, Phase-1, Onshore Facilities is a grass roots project. The Client is Aramco Gulf Operations Company Limited “AGOC” and Kuwait Gulf Oil Company (K.S.C.) “KGOC”, jointly operating at and from Al-Khafji, Saudi Arabia for oil and gas exploration development and production in the offshore area of the divided ex-Neutral Zone between Saudi Arabia and Kuwait (“Al-Khafji Joint Operation” or “KJO”). The project was contracted on a Lump Sum Turnkey (LSTK) basis.

The facilities consist of the following five (5) main units:
1. Inlet Separator & Gas Reception
2. Gas Compression & Processing Facilities
3. Flare System
4. Utilities & Offsite Units
5. Buildings and Others including Process Control System (PCS)

Plant Capacity: Oil: 300,000 BOPD
Gas: 120 MSCFD
The Isomerisation and Refinery Revamp Project is located in Mina Al Fahal in Oman, the Client being Oman Refinery Company (ORC). The Project consisted of the engineering, procurement, construction, pre-commissioning, commissioning and performance test runs of an Isomerisation Plant and a refinery revamp comprising of the following:

1. Penex™ Unit – Isomerisation Unit of 10,465 BPD.
2. Revamping of Naphta Hydrotreating Unit (NHTU) to a capacity of 28,700 BPD.
3. Revamping of Naphta Splitter Unit (NSU) to a capacity of 26,900 BPD.
4. Revamping of Gas Tail Unit (GTU) to a capacity of 300 TPD.
5. Revamp of Crude Distillation Unit (CDU) from 85,000 BPD to a capacity of 106,000 BPD.
6. Revamp of Kero-Merox Unit, Net Gas Hydrocarbon Recovery Unit, Sour Water Stripper Unit.
7. Supply and installation of condensate import storage, and pumping facilities.
8. Extension of two substations and revamping of a major electrical substation.
9. Replace existing control system with a Yokogawa CS-3000 System.
10. Associated new and revamped utilities and Offsite facilities.

Laser scanning was used to obtain accurate 3D model of the existing refinery to facilitate engineering and pre-shutdown pre-fabrication work.

CCC construction scope of the Work involved civil works, buildings, equipment (erection, modification, relocation and dismantling), piping erection, steel structure erection, electrical & instrumentation, painting and insulation works. Moreover, the scope of work involved integration and tie-in works to the existing facilities (extremely tight 70 days shutdown).
CCC’s scope of work includes Engineering, Procurement, Construction and Commissioning of the works described below:

1. MARINE STRUCTURES (PACKAGE 1)
   - Two double liquid berths for 300,000 dwt ships including a total of 1,460 m of block work quays -14.5 to +5.5 m, localized dredging, dolphins, access ways and reclamation, walkways, piled loading platform and superstructure, gangway, furniture, oil spill containment equipment, revetment and scour protection, navigation aids and vessel approach system.
   - Two container berths: 770 m of block work quay -14.5 to +5.5 m, piled crane rail, furniture, paving and navigation lights.
   - Berths for 4 no. tugs and 3 no. vessels including 350 x 30 m wide offshore block work paved quay (-9.2 to +3.5 m) linked to main causeway by a 100 m long rubble mound.
   - Navy and coastguard berths block-work construction for 8 no. berths, 2 x 160 m piers, paved reclamation and revetment, quay furniture, navigation lights and relocation/installation of 4 no. existing floating pontoons and walkways supplied by Qatar Petroleum.

2. INFRASTRUCTURES (PACKAGE 2)
   - 45 km roads and parking areas, signs, crossover structure, lighting, crossing duct banks and retaining walls with limited reclamation.
   - 103 no. buildings (38,000 m²) up to six stories and associated HVAC and electromechanical works.
   - Water supply, sewage and drainage networks over the entire port expansion areas.
   - Electrical supply and distribution (132 KV, 33 KV, 11 KV and LV) including 49 no. substations and power management system.
   - Pipe racks and bridge structures for 2 no. Liquid Products berths.
   - Fuel system including diesel tanks and distribution networks plus oil drainage and spill containment.
   - Fire fighting and detection including pumping stations, tanks, water and foam systems.
   - Associated lighting.
   - Associated telecommunications facilities.
   - Security system, fencing and watch towers, CCTV, intruder detection, access control and command center.
New Doha International Airport (2 contracts)
Qatar

The scope of work for the Air Traffic Control (ATC) and Support Facilities includes all services and works necessary for the design and construction of facilities for the New Doha International Airport (NDIA). The ATC Facilities include the following:

- ATC Tower with an overall height of 90 meters, housing a visual control room 75 meters above ground. Installed equipment includes mechanical, electrical, and plumbing (MEP) building equipment, including two elevators and HVAC equipment. Tower facade is LED lighted with the capability of changing colors.

- Four-storey ATC Technical Building (5,827 m²) connected to the ATC Tower, which accommodates a radar approach control room, training room, and offices. Equipment to be installed includes MEP building equipment including HVAC, elevators, and diesel-driven electric generators. This facility includes a small checkpoint building between the parking and the technical building for workers crossing the airside-landside boundary.

- Three-storey Meteorological Building (900 m²) which includes office and balloon launch building. The third floor consists of an observation room. Equipment to be installed in the office building includes MEP building equipment, including HVAC and elevator. The balloon launch building is a one-story building.

- Single storey Radio Transmitter building (300 m²), including MEP and HVAC.

- Single storey Radio Receiver Building (266 m²), including MEP and HVAC.

- All services and special systems external trench and duct routes for air field equipment and instrumentation inside the vicinity of each facility.

- Site improvements adjacent to each of the buildings such as paved vehicle circulation and parking areas, side walks, fencing, exterior lighting, protective bollards, curbs, shade structures, site drainage, underground water supply, high-pressure fire water, waste water collection lines, underground conduits for underground electric power supply lines and fiber-optic telecommunications/IT lines.

- Project: New Doha International Airport, Air Traffic Control & Support Facilities
- Location: Doha, Qatar
- Client: New Doha International Airport (NDIA) Steering Committee
- Contract Value: US$ 51 Million
- Contract Duration: 37 Months
- Completion Date: November 2009
- Type of Contract: EPC Lump Sum Turnkey
## Sample EPC Projects Completed & in Progress

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LOCATION</th>
<th>EPC CONTRACT VALUE (US$ MILL.)</th>
<th>PROJECT START</th>
<th>PROJECT END</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OIL &amp; GAS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Habshan Flare Gas Recovery</td>
<td>Abu Dhabi</td>
<td>120</td>
<td>5/09</td>
<td>11/11</td>
</tr>
<tr>
<td>Common Cooling Water System, Phase II, Category 2</td>
<td>Qatar</td>
<td>590</td>
<td>1/08</td>
<td>6/10</td>
</tr>
<tr>
<td>Khafji Field Development, Phase I - Onshore Facilities</td>
<td>Kuwait/Saudi Arabia</td>
<td>540</td>
<td>8/06</td>
<td>10/09</td>
</tr>
<tr>
<td>Offshore Associated Gas Project (OAG) - EPC Package 3 - Onshore Pipeline &amp; Habshan Facilities</td>
<td>Abu Dhabi</td>
<td>287</td>
<td>6/06</td>
<td>3/09</td>
</tr>
<tr>
<td>Habshan Gas Complex Expansion, EPC Package No. 1 (Fluor/CCC JV)</td>
<td>Abu Dhabi</td>
<td>EPC 999 / CCC 500</td>
<td>5/06</td>
<td>2/09</td>
</tr>
<tr>
<td>Expansion of Khafji Crude Onshore Production Facilities</td>
<td>Kuwait/Saudi Arabia</td>
<td>113</td>
<td>8/05</td>
<td>10/08</td>
</tr>
<tr>
<td>Isomerization &amp; Refinery Revamp</td>
<td>Oman</td>
<td>100</td>
<td>11/04</td>
<td>3/07</td>
</tr>
<tr>
<td>LAM 10 Platform Upgrade (Offshore “Cheleken”)</td>
<td>Turkmenistan</td>
<td>13</td>
<td>1/04</td>
<td>5/05</td>
</tr>
<tr>
<td>Common Cooling Water System (Phase 1) &amp; Supply of Seawater to Qatargas &amp; LNG-1 &amp; Ras Laffan Cracker 2 (W4)</td>
<td>Qatar</td>
<td>420</td>
<td>1/02</td>
<td>12/07</td>
</tr>
<tr>
<td><strong>OIL &amp; GAS PIPELINES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bu Hasa - Habshan 50 km 36” Gas Pipeline, EPC Package 1</td>
<td>Abu Dhabi</td>
<td>52</td>
<td>8/06</td>
<td>10/08</td>
</tr>
<tr>
<td>24”/30” Eastern Gas Distribution System Upgrade Works - East &amp; West Systems</td>
<td>Abu Dhabi</td>
<td>132</td>
<td>5/06</td>
<td>10/08</td>
</tr>
<tr>
<td>Ras Laffan to Mesaieed 126 km 36” Sweet Gas Pipeline</td>
<td>Qatar</td>
<td>86</td>
<td>4/04</td>
<td>12/06</td>
</tr>
<tr>
<td>Baku-Tbilisi-Ceyhan Oil Pipeline &amp; South Caucasus Gas Pipeline (Total 886 km 42”)</td>
<td>Azerbaijan</td>
<td>379</td>
<td>8/02</td>
<td>3/06</td>
</tr>
<tr>
<td>Mina Al Fahal - Sohar 266 km 24” Crude Oil Pipeline</td>
<td>Oman</td>
<td>EPC - 88 / CCC - 44</td>
<td>5/04</td>
<td>1/06</td>
</tr>
<tr>
<td>Mozambique to Secunda (South Africa) 864 km 26” Natural Gas Pipeline</td>
<td>Mozambique &amp; South Africa</td>
<td>275</td>
<td>4/02</td>
<td>1/04</td>
</tr>
<tr>
<td>Fahud – Sohar 302 km 32” Gas Pipeline</td>
<td>Oman</td>
<td>EPC - 122 / CCC - 41</td>
<td>2/01</td>
<td>10/02</td>
</tr>
<tr>
<td>Maqta – Jebel Ali 112 km 48” Gas Pipeline</td>
<td>Abu Dhabi</td>
<td>EPC - 109 / CCC - 44</td>
<td>5/00</td>
<td>2/02</td>
</tr>
<tr>
<td><strong>BUILDINGS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Doha International Airport - Air Traffic Control &amp; Support Facilities</td>
<td>Qatar</td>
<td>51</td>
<td>5/06</td>
<td>7/09</td>
</tr>
<tr>
<td>Sonatrach Building</td>
<td>Algeria</td>
<td>36</td>
<td>5/04</td>
<td>07/10</td>
</tr>
<tr>
<td>Fahd Al Ahmad Housing Project</td>
<td>Kuwait</td>
<td>26</td>
<td>12/05</td>
<td>12/07</td>
</tr>
<tr>
<td><strong>HEAVY CIVIL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ras Laffan Port Expansion - Berths &amp; Port Infrastructure</td>
<td>Qatar</td>
<td>1,801</td>
<td>3/08</td>
<td>3/11</td>
</tr>
<tr>
<td>New Doha International Airport - Midfield Area Access System</td>
<td>Qatar</td>
<td>226</td>
<td>5/07</td>
<td>3/09</td>
</tr>
<tr>
<td>Shaybah Infrastructure - Residential &amp; Industrial Complex</td>
<td>Saudi Arabia</td>
<td>230</td>
<td>8/96</td>
<td>12/98</td>
</tr>
<tr>
<td><strong>NETWORKS &amp; TREATMENT PLANTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ras Laffan ‘B’ 88 km Water Pipeline</td>
<td>Qatar</td>
<td>148</td>
<td>3/05</td>
<td>1/08</td>
</tr>
<tr>
<td>Doha South Sewage Treatment Works, Phase IV</td>
<td>Qatar</td>
<td>42</td>
<td>6/04</td>
<td>8/07</td>
</tr>
<tr>
<td>Al Dhakhira Area Sewerage System</td>
<td>Qatar</td>
<td>14</td>
<td>10/02</td>
<td>10/04</td>
</tr>
<tr>
<td>Sharjah Sewage Treatment Plant, Phase 6</td>
<td>Sharjah</td>
<td>26</td>
<td>5/02</td>
<td>5/04</td>
</tr>
<tr>
<td><strong>ROADS &amp; BRIDGES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dualization of 18th November Street</td>
<td>Oman</td>
<td>17</td>
<td>6/07</td>
<td>11/08</td>
</tr>
<tr>
<td>Internal Roads in Dakhleya, Sharqia, Dahera &amp; Batinah Regions</td>
<td>Oman</td>
<td>26</td>
<td>4/03</td>
<td>6/04</td>
</tr>
<tr>
<td>Khasab Coastal Road, Section I (Bukha - Tibet)</td>
<td>Oman</td>
<td>13</td>
<td>5/97</td>
<td>8/98</td>
</tr>
</tbody>
</table>

- **EPC**: Engineering, Procurement & Construction
- **CCC**: Consolidated Contractors Company Share
your EPC company of choice