



# COMPANY PROFILE

2015

# INTRODUCTION



MCC Petroleum is a world-class Engineering, Procurement, Construction (EPC) Oil and Gas company based in UAE. Our services include oil field environmental remediation. We are TUV ISO 9001:2008, ISO 14001:2014 and OHSAS 18001:2007 certified in ENGINEERING, PROCUREMENT, PIPELINE, TANK CONSTRUCTION AND ASSOCIATED FACILITY, CROSSING.

MCC Petroleum is an indigenous multi - discipline Oil field solutions provider operating under international standards while continuously raising the benchmark of customer satisfaction.

The key to our success is the combination of experienced expatriates with predominant local execution staff.

Our vision, To become a leading provider of oil field Services across the Middle East.



Over  
800 employees in  
the Group



## The MCC PETROLEUM Group in brief



**Bilad Al-Duha**  
Company for Oil Services

- Pipeline Construction and Tank Construction



- EPC Contractor for Tank and Pipeline Construction



- Environmental Remediation Services

## ABOUT US



### Mission Statement

MCC Petroleum is a leading EPC and Environmental Services Contractor providing Services to the Petroleum Industry in the Middle East with focus on Iraq, UAE, Kuwait and Saudi Arabia. The focus of its construction services is mechanical, including shop fabrication and construction of tanks and pipelines. The environmental services are performed via its Scaltech affiliate providing sludge treatment, oil recovery and soil remediation services. In support of these activities the Company also provides engineering and procurement services including full EPC for small to medium size projects.

With its main office in Dubai and regional offices in Kuwait, Basrah, Dammam and Istanbul and its experienced international staff the company has the capability to perform any project in accordance with international standards.

Our mission is to perform all projects to the complete satisfaction of our customers in term of timing and cost. At the same time we perform our work to the expectation of our international clients with respect to health and safety and security requirements.

# HISTORY

In 2014 MCC Petroleum Group successfully passed TUV certification.



The origin of the MCC Petroleum Group dates back to 1986 when the Company started operations in the United States and within 10 years became the leading EPC Contractor in the world for providing secondary Oil Recovery Plants. The Group refocused its efforts to the Middle East in 2011 and builds upstream facilities for Major Oil Companies. The company is also in the world largest environmental project in Kuwait.

## Patents

- Thermal Desorption Process patent awarded in 1998.
- Sludge to COKER recycling patent awarded in 1992.
- Scalfuel process patent awarded in 1995.
- Scalfuel Product patent awarded in 1996.
- Successful development of fuel oil production process in 2005.



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## VALUES

### Customer Satisfaction

We believe that the key to our success is the customer's satisfaction. We are dedicated to satisfying our customers. We strive to exceed their expectations in HSE and QAQC performance as well as on budget and on time delivery.

### Team Spirit

Our team spirit binds us together, surpassing geographic boundaries. We fully grasp the true meaning of teamwork. We cooperate and empower one another in recognition that our efforts will translate into excellent solutions and services.

### Integrity

We are committed to conduct ourselves in a manner coherent with the utmost standards of behavior including honesty and fairness. We keep our word, deliver on our promises, and recognize our mistakes. Our personal and business behavior ensures that we are a company, worthy of trust.





CAPABILITIES



## EPC PROCESS

### *Pre construction*

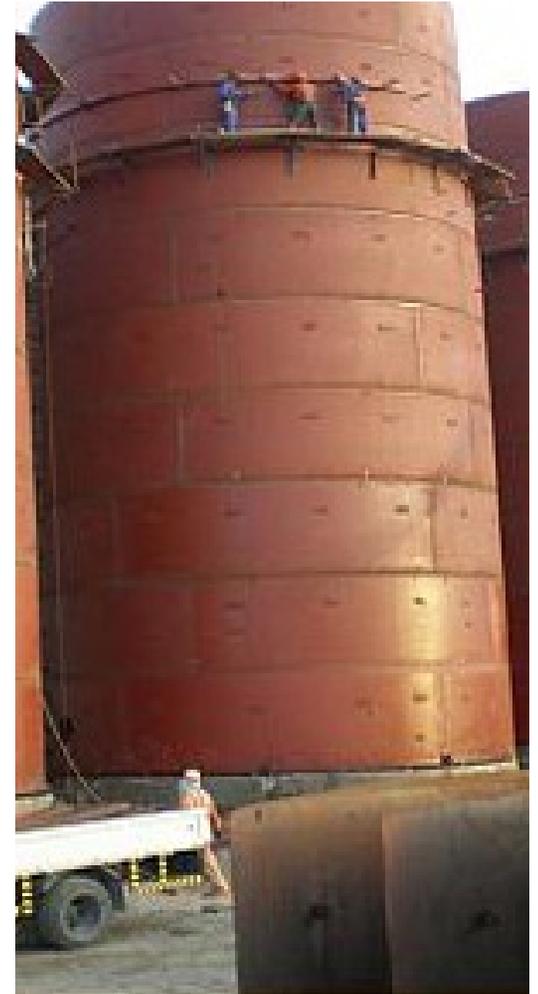
The construction process consists of three distinct phases; Pre-Construction, Construction, and Post Construction. We offer a single source of responsibility for the entire project. The result is streamlined communication which strengthens our relationship with clients, produces quality results and allows to meet client expectations.

The pre-construction phase is one of the most important parts of the construction process. Without proper planning and preparation, we cannot ensure a successful project. The time spent in the front end of a project not only impacts the feasibility & success of the project, but also saves time in the end.



## CONSTRUCTION

Once construction begins, we continue to make it easy for the client to keep up with the construction process. We keep the client informed on a regular basis with daily progress reports, weekly project updates and project coordination meetings. We consistently communicate pro-actively with client staff to avoid unnecessary interruptions to the construction process. In addition, we emphasize safety, job site cleanliness and overall job organization. After construction, we provide to the client a complete set of records and documents for the entire project. This will allow for a quick reference for any of the components relating to maintenance or operation of the facility. We will also make a series of warranty or follow-up visits to ensure total client satisfaction





## CONSTRUCTION MANAGEMENT

To deliver a major project on time and on budget while keeping costs and administrative burdens to a minimum the MCC Petroleum Construction management team provides any or all of the following services:

- Design coordination and review
- Value engineering and cost analysis
- Construct ability reviews and assessments
- Construction planning, scheduling and contractor coordination
- Estimating, purchasing and expediting
- Budgeting and cost control
- Quality assurance
- Contract administration
- Community and agency relations

MCC Petroleum offers CM services in various forms, depending on client preference and project needs. On an «agency» basis, we serve as the owner's representative to optimize cost, time and quality; or we will handle CM on an «at risk» basis, providing a guaranteed maximum price for the cost of construction of the project and taking on the dual role of construction manager and contractor.



# PIPELINE CONSTRUCTION

## CAPABILITIES

- Pipe line 8" - 56"
- Trunk Lines
- Flow lines
- Piping 1" - 8"
- Horizontal Directional Drilling
- Hot Tapping & Stoppling



# TRUNK AND FLOW LINE CONSTRUCTION

## CAPABILITIES

- Pre-construction activities
- Right of way construction
- Trenching
- Stringing
- Bending
- Welding
- Non-destructive testing
- Heat shrinkable sleeves
- Lowering-in
- Backfilling
- Hydrotesting
- Start-up activities
- Valve stations erection
- Open Cut
- Thrust Boring
- Horizontal Directional Drilling
- Cathodic Protection
- Fiber Optic Cable Installation



# TANK CONSTRUCTION

## CAPABILITIES

- Crude storage
- Water storage
- Natural gas storage
- Floating roof
- Fixed roof

## SPECIALIZED SERVICES

- Plate Fabrication
- All related civil works
- Associated piping works



**Bilad Al-Duha**  
Company for Oil Services

# TANK FABRICATION

MCC Petroleum is your one-stop resource for all your Tank fabrication needs. It includes plate material procurement as per the code requirement.

MCC Petroleum owns a mechanical fabrication shop with all the required equipment for plate cutting, rolling, beveling and welding.



We build and erect tanks according to API 650, API 620 and API 12D standards.

### *API 650 tanks*

The most common standard used is API 650. API 650 tanks are commonly used for oil, gasoline, chemical and produced water storage. You will find these tanks located all around the world in refineries, terminals, pipelines and production facilities. The API 650 standard governs how tanks are designed, processed, welded, inspected and installed.

### *API 620 tanks*

API 620 is a design standard which governs the design and construction of large welded steel low pressure storage tanks. API 620 storage tanks operate at 250°F or less with an operating pressure more than 2 ½ lbf/in<sup>2</sup> and less than 15 lbf/in<sup>2</sup> gauge.

### *API 12D tanks*

API 12D is a specification for Field Welded Tanks for Storage of Production Liquids. It is the least known of the three standards.

This standard is to field erected tanks as API 12F is to shop built tanks. API 12D predetermined tank dimensions and storage capacities, along with accessories and testing requirements. By creating fixed sizes and requirements, the API 12D has eliminated the need for further engineering, effectively reducing the cost of the tanks.





## CONSTRUCTION OF SPHERICAL TANKS

In the construction of a land-based skirt-supported spherical tank, the tank is partially prefabricated, its bottom polar cup section being produced ready for mounting and stored inside the rest of the spherical shell. In this state, wherein the transportation height of the tank has been substantially reduced, the as yet unfinished spherical tank is transported to the erection site, where the bottom polar cap section is lowered into position and secured to the rest of the spherical shell.

A particular advantage of using spherical tanks as storage tanks is their safety and operational reliability. Very good experience has been gained with such tanks from maritime applications. A special advantage is that extensive insulation is not required between the tank support and the ground, as is the case if large upright cylindrical tanks with flat bottoms are utilized.

During transportation, the prefabricated structure is preferably supported by a temporary support structure in the region which later will become the skirt region. This temporary support structure can be removed when the permanent skirt is constructed at the installation site, or the temporary structure may become part of the permanent skirt.

## PROCESS SKID FABRICATION



MCC Petroleum is your one-stop resource for all your process skid fabricating needs.

MCC Petroleum owns a mechanical fabrication shop with all required equipment for process skids fabrication.

Skids are fabricated from a number of raw materials i.e. pipes, pipe fittings (e.g. elbows, flanges, tees, etc.), valves, pumps, motors, etc., in our fabrication shop. Raw materials like pipes are cut to the required size and moved with pipe fittings to a fitting table, where some of the components are fitted together. The resulting sub-assembly continues with welding operations before it comes back to the fitting table and gets fitted with other components. Simultaneously the base frame of the skid is fabricated. Afterwards all components are assembled on the base frame.



# PIPE SPOOL FABRICATION

MCC Petroleum is your one-stop resource for all your pipe spool fabricating needs. It includes plate material procurements as per the code requirement.

MCC Petroleum owns a mechanical fabrication shop with all required equipment for pipe cutting, rolling and welding.

Pipe spools are fabricated from a number of raw pipes and pipe fittings (e.g. elbows, flanges, tees, etc.) in our fabrication shop. Raw pipes are cut to the required sizes and moved with pipe fittings to a fitting table, where the components are fitted together. The resulting sub-assembly is transferred to the welding operation before it comes back to the fitting table and gets fitted with other spool components.

Spool fitting and welding can be grouped into two types:

*Roll fitting and welding*

*Position fitting and welding*

Roll fitting and welding means the main pipe can be turned by a rolling machine and the fitter or the welder does not have to change his position to perform the operation, whereas position fitting and welding occur when one or more branches of the main pipe exceed the clearance limit.

In such case, the fitter or the welder has to move around the main pipe run to accomplish fitting or welding. As a result, position fitting and welding usually takes more time to finish than roll fitting and welding. To minimize the number of position fittings and welding is one of the goals of pipe spool fabrication sequencing.

Cost Savings

- Quality of the work is easier to manage & maintained in a controlled environment. High accuracies on specified tolerances will avoid rework at site.
- Weather independent fabrication will minimize production delays.
- Prefabricated Spools are the perfect answer to severe skill & labor shortage. Users do not have to mobilize a significant work force for fabrication of spools on site.
- Manufacturing in mass production, will result in lower manufacturing costs compared with site fabrication.
- Prefabricated Spools will take less fabrication / assembly time, thereby avoiding time & cost overruns.
- Prefabricated Spools will entail no or little investments in fabrication & testing equipment by users. Radiography, PMI, MPI, Ultrasonic tests, Hydro-tests etc. can be performed better & effectively in a controlled environment
- Prefabricated Spools will be serviced under the strict vigilance of Third Party Inspection Agencies, ensuring 100% adherence to required quality standards.
- Better control on welding parameters in a controlled environment results in lesser probability of rework at site.
- Weld less Induction Bends (as permitted by the client) would entail complete avoiding of welding pipe sections using SR elbows, thereby bringing in significant cost savings in welding, radiography of welding joints & material requirements.
- Lesser dependency on power availability, avoiding unnecessary time delays.
- Improved safety in better manufacturing conditions than on site.

Fabricating spools off site means less slag, abrasive dust, smoke & other contaminants that are unacceptable according to international standards.

# SLUDGE PROCESSING



Scaltech Sludge Processing Plants are custom designed for each project and use the most advanced vertical disk centrifuge technology. Recovered Oil meets fuel oil specs.

- Specifically designed for oily sludge
- High speed (7,000 G's) assures most efficient separation of highly emulsified sludges
- Disk column and solids transport permits most effective processing of largest quantity of solids (up to 15% solids content)
- Extracted oil has <1% solids & water%
- Extracted water has <500 ppm TSS
- Solids leave as a mixture with water with no oil (post-separation by horizontal centrifuge)

# SOIL REMEDIATION

Scaltech deploys direct and indirect Thermal Desorption Plants depending on the nature of the material to be remediated.

Scaltech Thermal Desorption Plants are state of the art and use advanced technologies for processing contaminated soil and drill cuttings.

- Vacuum Thermal Desorption to reduce energy cost;
- Specialized Burners to reutilize recovered oil;
- Acoustic Technology to avoid coking and plugging;
- Drilling Fluids Recovery Technology;
- High Temperature Desorption for asphaltene and other long carbon chain oil removal.



# MAJOR ONGOING PROJECTS



MCC Petroleum Group was successfully prequalified and awarded the BGC Project "ZUBAIR IPF & TIE-INS PROJECT" in 2015. Location: BGC Integrated Production Facilities, Basra, Iraq



## MAJOR ONGOING PROJECTS

In 2015 MCC Petroleum Group was qualified by Kuwait Oil Company as a Contractor for sludge processing and soil remediation. Scaltech is in the process of becoming a leading service provider under KOCs SEED and KERP Projects.



# MAJOR COMPLETED PROJECTS

In 2013 MCC Petroleum Group was awarded the Lukoil Middle East Project “ENGINEERING, PROCUREMENT AND CONSTRUCTION OF WATER CROSSINGS FOR THE WEST QURNA FIELD (2<sup>ND</sup> PHASE)” 42” OIL PIPELINE FROM CPF MISHRIF TO TUBA TANK FARM, AL HAMMAR HOR CANAL CROSSING (K.P. 61+400) BY OPEN CUT METHOD.

Project was successfully completed in 2014.



**DO YOU KNOW?**  
On present time this is  
the biggest Open Cut  
Method Crossing in  
Iraq.



## MAJOR COMPLETED PROJECTS



In 2014 MCC Petroleum Group successfully completed construction of 21 tanks for 3 ENI crude process facilities.



# PROJECTS REFERENCE LIST

Country	Title	Project Brief	Scop of Work	Client	Project Duration		Contract Value (USD)	Country	Title	Project Brief	Scop of Work	Client	Project Duration		Contract Value (USD)
					Start	Finish							Start	Finish	
Turkey	LPG Storage Tank Project	1900 m3 Sheprical Tank Erection	Subcontractor	Ergaz A.Ş.	2000	2001	5,000,000	Iraq	Nasiriya Gas Pipeline	Rehabilitation of 100 km Dry Gas Pipeline of 42" dia	EPC	SOC South Oil Company	2006	2007	2,000,000
Iraq	NaftKhana Pipeline Contract 2	120 km Crude Oil Pipeline of 12"Dia.- Carbon Steel Type in Rough Topography. From Iran-Iraq Border Passing by Baqouba to Dowra Refinery in Baghdad-IRAQ	EPC	Oil Pipeline Company	2001	2002	2,500,000	Iraq	Nasiriya Basra Gas Pipeline	40 km Gas Pipeline of 42" dia	EPC	South Oil Company SOC	2007	2008	12,000,000
Iraq	NaftKhana Pipeline Contract 1	Boring Works-Horizontal Drilling, Casing and Under Laying for All 120 km Pipeline. From Iran-Iraq Border Passing by Baqouba to Dowra Refinery in Baghdad-IRAQ	EPC	Oil Pipeline Company	2001	2002	1,300,000	Iraq	Kut Depot Extension	2 Nos. of 10000 m <sup>3</sup> Gasoline Storage Tanks-Carbon Steel-Floating Roof Type. Piping Network 6", 8" and 12" dia.	EPC	Oil Pipeline Company	2008	2009	4,500,000
Turkey	Tank Demontage and Erection	Totally 3000 m3 Tank Demontage and Erection Project	EPC	Brigstone Tyre A.Ş.	2002	2003	1,100,000	Iraq	Samawa Refinery	3 Nos. of 2000 m <sup>3</sup> Diesel Tanks-Fixed Roof Type	EPC	Samawa Refinery	2008	2009	1,500,000
Turkey	LPG Storage Tank and Piping Project	2500 m3 Spherical Tank Erection & Pump Station & Loading -Unloading System Installation	Subcontractor	Milangaz A.Ş.	2002	2004	7,350,000	Turkey	Kırıkkale, Çorum and Samsun Fuel Oil Storage Facilities	Complete Tank Desing,Erection, Pump Station Connection and Loading -Unloading Terminals	EPC	Best Oil A.Ş.	2008	2010	16,000,000
Iraq	Rashidiya Pipeline 12" Dia	3 km of 12"Crude Oil Carbon Steel Pipeline	EPC	North Oil Company NOC	2003	2003	450,000	Turkey	Mersin and Körfez Fuel Oil Storage Facilities	Complete Tank Desing,Erection, Pump Station Connection and Loading -Unloading Terminals	EPC	ALPET & ALTINBAŞ PETROLIUM	2009	2011	9,500,000
Iraq	Wet Oil Treatment at Bai Hassan South	12 km of Piping Network of Different Sizes 1/2"-32"Dia. Two Units - 105 KBPD	EPC	North Oil Company NOC	2003	2004	4,000,000	Turkey	LPG and Fuel Oil Storage Facility	3000 m3 Underground LPG + 35000 m3 Fuel Oil Storage Tanks Engineering and Design Project	EP	Ergaz A.Ş.	2010	2010	285,000
Iraq	Wet Oil Treatment at Baba Dome	12 km of Piping Network of Different Sizes 1/2"-32"Dia. Three Units - 150 KBPD	EPC	North Oil Company NOC	2004	2005	5,500,000	Iraq	WS2 Pipeline	24" and 36" Water Pipeline Carbon Steel in Ahdeb Oil Field (20) km	EPC	CNPCC/CPECC	2010	2011	12,000,000
Iraq	Mussaib Power Plant Station	4 Nos. of 6800 m <sup>3</sup> Carbon Steel Diesel Storage Tanks-Floating Roof Type. 2Nos. Demi Raw Water Tanks (Dome Self-Su port Type)	EPC	South East Texas Industrial Services (STIS)	2005	2006	3,000,000	Iraq	Ahdeb Oil Field Pipeline Phase 1	B1 of EXL 2 and 3, 72 km Crude Oil Pipeline 10" and 72 km Gas Pipeline 16"	EPC	CNPCC/CPECC	2010	2011	27,000,000
Iraq	Diwaniya Depot Extension	7 Nos. of 10000 m <sup>3</sup> Carbon Steel Diesel Storage Tanks-Fixed and Floating Roof Type	EPC	Oil Pipeline Company	2005	2006	7,000,000	Iraq	Ahdeb Oil Field Pipeline Phase 2	B2 of EXL 3 32 km Gas Pipeline 16"	EPC	CNPCC/CPECC	2010	2011	9,000,000
								Iraq	48" Hdd Pipline Crosing Shat Al Arab	7 HDD Crossings, 1200 m Each	EPC	Water Resources Company/NSC	2010	2012	26,000,000
								Turkey	Kırıkkale and Çorum Fuel Oil Storage Facilities	Complate Tank Desing,Erection, Pump Station Connection and Loading -Unloading Terminals	EPC	Damla Oil A.Ş.	2010	2012	11,200,000
								Iraq	FSF Pipeline Construction	6" Flow Line and 16" Trunk Line	EPC	CNPCC/CPECC	2011	2012	53,000,000

# PROJECTS REFERENCE LIST



Country	Title	Project Brief	Scop of Work	Client	Project Duration		Contract Value (USD)
					Start	Finish	
Iraq	Petrofac Base	4 Buildings About 700 m2 Area for Each Building	EPC	Petrofac/ Mercury	2011	2012	12,000,000
Iraq	20" Pipeline Construction Majnoon Oil Field	Construction of 30 km 20" Pipeline	EPC	SHELL/CPP	2011	2012	6,000,000
Iraq	Baqouba Gas Pipeline	32" Gas Pipeline from Naft Khana to Mansouriya Power Plant Station (40) km	EPC	IGC	2011	2012	33,000,000
Iraq	Karbala Power Plant Station	8 Fixed Roof Tanks (size 2000 m3) With Two Units and Network	EPC	BETA	2011	2012	4,000,000
Iraq	Diwaniya Power Plant Station	8 Fixed Roof Tanks (size 2500 m3)	EPC	STX	2011	2012	3,500,000
Iraq	Stell Structure	Superstructure (Steel) Pipe Rack Inside CPF	EPC	CNPCC/CPECC	2011	2012	3,600,000
Iraq	Garraf CPF	Cable Trays, Conduit Installation, Wire Pulling, Fire & Gas Detection, Field Instruments, Cathodic Protection, Earthing System, Emergency Communication System, Fiber Optic Networks	EPC	Weatherford, Petronas	2012	2012	12,000,000
Iraq	Bina Bawi CPF	Cable Trays, Conduit Installation, Wire Pulling	EPC	Weatherford, Petronas	2012	2012	6,000,000
Iraq	EPC for 4 Floating Roof Tanks	4x5000 m <sup>2</sup> Floating Roof Tanks at Mussaib Power Plant	EPC	Ministry of Electricity	2012	2013	9,000,000
Saudia Arabia	Water Tanks and Water Tower Projects	Complete Tank Desing & Erection	EPC	MNG-LIMAK-MAPA JV	2012	2014	8,900,000
Iraq	104 km 48" Pipeline Construction	104 km 48" Pipeline Construction (E&I Works, OHL, Telecom Systems)	EPC	Tehnoengineering	2013	2013	30,000,000
Iraq	Water Crossings for The West Qurna Field (2nd Phase)	850 m Water Canal Crossing, 42" Pipe by Open Cut.	EPC	Lukoil Middle East	2013	2014	8,500,000
Iraq	Fao Terminal. Crude Oil Loading Farm	Cable Trays, Conduit Installation, Wire Pulling	EPC	Leighton Offshore / South Oil Company	2014	2014	5,000,000
Iraq	Noor Oilfield Tanks Construction	EPC of 2x5000 m <sup>2</sup> Tanks	EPC	Misson Oil Company	2014	x	5,600,000
Iraq	Zubair IPP's & Interconnection Piping	Pipeline Rehabilitation Project included extensive E&I Works	EPC	Basrah Gas Company	2015	x	15,000,000



## EQUIPMENT LIST

- **Pipeline Construction Equipment** – Side Booms, Cranes, Welding Tractors, Excavators, Loaders, Internal and External Clamps, Welding Machines, etc.
- **Tank Construction Equipment** – Cranes, Welding Machines (including Automatic Girth Welders and Welding Tractors), Generators, Sand Blasting and Airless Painting Equipment, etc.
- **Workshop including** – Equipment for Cutting, Grinding, Bending, Overhead Cranes, Sand Blasting, Painting, etc.
- **Soil Remediation and Sludge Processing Equipment** – Centrifuged Based Sludge Processing Plants and Direct and Indirect Thermal Desorbers



# MAJOR CURRENT CLIENTS



ارامكو السعودية  
Saudi Aramco



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