

**CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORPORATION (CPECC)**

**Confidential  
As of 30 Oct. 2017**

**CPECC Major Projects in Iraq**

S.N	Client /Company	Project Name	Contract No.	Description of Project	Contract Val (US\$ Million)	Type of Contract	Contract Start	Contract Completion /Status	Project Location
1		Tank Inspection,Repair and Maintenance Works in Rumaila Oilfield (revised)	CON-IRAQ-11-1333	Tanks inspection, repair and maintenance for TK1 in DS3, TK2 in DS5 and TK3 in DS5, including: Deslugging, Cleaning, Inspection, engineering, procurement, construction and commissioning. Additional Five tanks DS6-TK1	22.73	PC, Call-Off Unit Rate	30-Apr-11	30-Jun-12	Rumaila, Iraq
2		Operations,Inspection, Maintenance and Repair Contract Rumaila Field (Petrofac-CPECCJV)	CON-IRAQ-10-0278	CPECC & Petrofac Consortium to work as call off including operations,inspection, Maintenance and Repairation Work for Rumaila Field – South Iraq	89.20	PC, Call-Off Unit Rate	1-Aug-11	31-May-14	Rumaila, Iraq
3		THE PROVISION OF FLOW TANK MAINTENANCE, REPAIR & INSPECTION SERVICES, Rumaila	CN100633	CONTRACTOR's responsibility under the CONTRACT to deliver the North Rumaila (NR) flow tanks inspection, repair and maintenance program according to API 653	49.30	PC, Call-Off Unit Rate	1-Feb-12	28-Feb-14	Rumaila, Iraq
4		N-SERVICE PRESSURE VESSEL REPAIR SERVICES for the Rumaila Oil Field		Pressure Vessel Repairs 4 Pump installation	26.50	PC, Call-Off Unit Rate	2014/9/31	1-Jun-16	Rumaila, Iraq
5		FABRIC MAINTENANCE & TERM SERVICES LABOUR, and	CN100634 CN101476	Scaffolding, Insulation, Painting, Welding, Hydro-Testing, Industrial cleaning.Rectify the faults in two key pressurised desalting units which will enable the oilfields to run more effectively and efficiently	17.00	PC, Call-Off Unit Rate	1-Feb-12	31-Jan-14	Rumaila, Iraq
6		Rumaila Qarmat Ali New Source Water Facilities Project	CN100846	The Project is phased in several contracts consisting works of a new Water Treatment Facility together with associated Mechanical ,Piping,Electrical and Instrumentation equipment to be installed at the site of an existing WTF located at Qarmat Ali ,In-situ cement piling construction works for Qarmat Ali Source Water facilities This project won BP Global <u>HELIOS Award</u> in end of 2015	70.30	PC, Call-Off Unit Rate	1-Sep-12	Mar.2016	Rumaila, Iraq
7	<b>BP Iraq N.V</b>	Inspection ,Maintainence and Repair Services for 3 Years RUMAILA FIELD -SOUTHERN IRAQ (Petrofac-CPECCJV)	CN100262	Take fully responsibilty for the adequacy ,stability and safety of the operation and performace of the RUMAILA FIELD.Wokrs includes 10 Main De-gas Stations(DS), 2 Mishrif De-gas Stations(Qurainat & Shamiya),2 Intermediate gas stations (NIDS & SIDS)	263.00	PC, Call-Off Unit Rate	15-Oct-12	Feb. 2017 On-going	Rumaila, Iraq
8		PROVISION OF SERVICES FOR CONSTRUCTION FOR PROCESSING TRAIN 2 AT DS2		CONSTRUCTION FOR PROCESSING TRAIN 2 AT DS2	20.00	PC, Call-Off Unit Rate	Jan 20. 2015	June. 2016	Rumaila, Iraq
9		Detailed Engineering for 2 Extended Cluster Pump Stations, Rumaila	CN101412	Detailed engineering service for two separate E-CPSs (as a part of PWRI Project) adjacent to two existing CPSs (CPS1 and CPS2) in the north Rumaila Field.	18.00	E	7-Jan-14	July 2014	Rumaila , Iraq
10		PR115889 In-Situ Machining services (Long Term).		In-Situ Machining services	50.00	PC	Mar. 2016	long term	Rumaila , Iraq

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11	ExxonMobil Iraq Limited (EMIL)	FWKO and D&D Pre-hook up tie-in construction	CN102004 CN101988	Construction for hook up tie in points for preparation of Free water Knockout (FWKO) project and Desalter and Dehydrator works.	40.00	PC, Call-Off Unit Rate	Sept.10, 2016	Sept.9, 2017	Rumaila , Iraq
12		Provision of maintainance management services for oil & gas systems	CN102002	maintainance management services for oil & gas systems in Rumaila (Petrofac - CPECC JV)	30.00	PC, Call-Off Unit Rate	Oct. 12, 2016	Oct.11, 2017	Rumaila , Iraq
13		<b>Rumaila Early Power Plant Project (EPP)</b>	CN100478	EPP is the first significant EPCC contract in Rumaila Greenfield development, which is FEED+EPCC+O&M Contract and main SoW is as follows: 1. 235 MW Power plant and BOP (5 sets of GE GTG-PG6581B Heavy duty Gas Turbine) 2. 132kV Interconnecting Overhead Transmission Lines(OHTL) 3. Fuel Gas Pipe Lines	425.00	<b>FEED+EPCC +2 yrs' O&amp;M</b>	Sept., 2014	Nov. 2017 On-going 99.9%	Rumaila, Iraq
14		EPP GTG Site Service contract	CN101958	GTG site service contract	13.74		Feb.2016	On-going	Rumaila, Iraq
15		<b>M/T127 Phase II Crude Tankage Pumps and Meters</b>	W3QR-40-M/T127	DS6 Facilities:1 degassing drum,1 crude storage tank and 1fixed foam fire protection system. DS8 facilities includes 2 degassing drums, 2 unstabilized crude storage tanks, two (2) stabilized crude storage tanks, 4 fixed foam fire protection systems, 2 crude export booster pumps, two (2) crude export main pumps, 2 water draw pumps, one (1) crude custody transfer meter and one (1) tank flare system.	<b>103.48</b>	<b>EPC</b>	<b>Aug.25, 2014</b>	<b>Jan. 2018 On-going</b>	<b>West Qurna1, Iraq</b>
16	<b>M/T130 Wet Crude Treatment System</b>	W3QR-40-M/T130	A new Crude treatment system in DS6 with capacity of 50,000bpd, including 10 sets of various pumps, 17 sets of vessel, 1 cooling mechine, heat exchanger and related works.	<b>68.00</b>	<b>EPC</b>	<b>Oct., 2014</b>	<b>Dec 2017 On-going</b>	<b>West Qurna1, Iraq</b>	
17	<b>AWQ0109 Produced Water Treatment</b>	AWQ0109	Capacity: 90 kBPD. 3* 30 kBPD pre-treatment facilities at each of 3 Degassing Stations in DS6, DS7, and DS8 in West Qurna I (WQI) field, and a central Produced Water Treatment Facility designed for 90 kBPD, located in DS7, consisting of at least two parallel skid-mounted trains of Gas Flotation Units and Cartridge Filters, Cartridge Filters and Nutshell Filters.	72.52	<b>EPC</b>	May. 2016	<b>March, 2018 On-going</b>	West Qurna1, Iraq	
18	Mechanical & Pipework Contract (MPC)	AWQ0317	Construction, repair works of Mechenical & Pipework in WQ1 DS6, 7 &8 from 2017 to 2021	60.00	Reimbursable	12/22/2016	12/21/2020	West Qurna1, Iraq	
19	M043 Tank projec	W3QR-40-M/T109	Client EM novated the contract to CPECC, including Storage tank installation and other change orders.	5.36	<b>C</b>	10/1/2015	31-Dec-2017 On-going	West Qurna1, Iraq	

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20	<b>Shell /Basrah Gas Company(BGC)</b>	BGC Portofolio Rehabilitation Project		This is a unit rates based EPC contract for 2+1 years based on deferred payment, basic Sow includes 3 packages for 1) Rehabilitation of WQ1 Compression Stations in DS6,7 & 8 2) Rhabiliation of N.Rumaila NGL Plant(300mmscd) 3) Rehabilitation of Umr Qasr Port sperical tanks	280.00	<b>Unit Rates based EPC +Financing</b>	8/3/2016	<b>On-going</b> 2 Aug. 2019	West Qurna1, N.Rumaila, Umr Qasr Port
	<b>Shell Iraq Petroleum Development BV</b>	Design, Supply & Construction for 12-inch River Water Transportation Pipeline System	SIPD-1463	EPCC for 12 inch * 30KM HDPE river water pipeline in Majnoon oilfield	12.88	EPC	April. 2017	<b>On-going</b> April. 2018	Majnoon Field, Iraq
21		<b>Provision of EPCC Service of Central Processing Facilities No.1 (CPF1) for Halfaya Project Surface Facility Early FCP</b>	Halfaya/UE /20101115/ CPF1	1. Central Processing Facilities No.1 (CPF1), Capacity: 100,000bpd, including Crude treatment: 2*Two Phase Separator (3.6m*18m), 3 row of Heat Exchanger (2 set per row), 3*Three Phase Separator (3.6m*18m), Desalting and Dehydration unit 3 row each. Gas treatment, Water treatment, Heat Medium skid and 2*30000m3 tanks, 2. power Plant:3*5000kw. 3. FSF: 14 new oilwell, 2 OGM Flowline and Trunkline (6"/8"/16") 15 KM The Design capacity of CPF1 is 70,000 BOPD, which can handle 100,000BOPD as the maximum. In FSF project for sustained production of 70KBOPD, there are 12 well pads, 12 new wellheads and related facilities ,such as oil gathering manifold, test seperator, close drain drum, vent pipe, disel generators, RTUs .etc	188.14	<b>EPCC</b>	5-May-11	June 2012	Halfaya, Iraq
22		Halfaya FSF Project for Sustained Production of 70 KBOPD	HFY- CON/F&C0 191-0219		14.65	<b>EPCC</b>	26-Jul-12	25-Jul-14	Halfaya, Iraq
23		<b>EPCC of CPF2&amp; Power Plant&amp; Halfaya Pump Station Project, Halfaya oilfield</b>	HFY- CON/F&C0 259-0283	1. A new Central Processing Facilities No.2 (CPF2), Capacity: 150,000 BOPD, consisting of crude oil reception and treatment, associated gas compression, crude and gas exportation, produced water disposal, fresh water supply, instrumentation and utilities, tanks(2*30,000m3) etc.; 2. <u>3 units of 10MW generators Power Plant (PP)</u> , the main power plant and provide power for the whole oilfield; 3. <u>Halfaya Pump Station (HPS)</u> , including Floating Roof Tank, Feed Pumps, Export Pumps, Surge Relief System, Flow Meters and utilities, etc.	<b>547.96</b>	<b>EPCC</b>	31-Jul-13	<b>29 Sept., 2015</b>	<b>Halfaya, Iraq</b>
24	<b>PetroChina /Total/Petronas</b>	<b>EPCC of CPF3&amp; Power Plant, Halfaya oilfield</b>		Capacity: 200k BOPD, main SOW: 1. CPF3: Crude Process Unit: 4*50kbopd Gas Compression Capacity: MMSCFD 150 Fresh Water Treatment Capacity 20,000 BWPD Oily Water Treatment Capacity 50,000 BWPD HP Flare Sm3/d 6,000,000 4*30000m3 tanks 2. Power Plant (5x30MW), OHTL and 3* 66kV switchyards Switchyards, 3. CPF3 Workshop and Interconnection Trunkline .	<b>820.00</b>	<b>EPCC</b>	31 Dec.2016	<b>Sept, 2018 On-going</b>	<b>Halfaya, Iraq</b>

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25		EPCC for Gas Receiving Station(GRS) Expansion Project,Halfaya oilfield	HFY-CON/F&C0270-0294	As a second CPF (i.e. CPF-2) at Halfaya in Phase Two is developed, to achieve additional production capacity of 100,000 BOPD, Consequently, it is required to expand the capacity of GRS in Phase Two to treat the additional gas produced in CPF-2, under the scope of this project. The Phase Two expansion will increase the capacity of GRS by 24,, 4,000,000 Sm3/d	19.10	<b>EPCC</b>	30-Jun-13	6 March, 2015	Halfaya, Iraq
26		EPCC for INTERCONNECTION TRUNKLINES Project & WELLPADS WITH OGM FOR FIELD SURFACE FACILITIES PHASE 2 PROJECT WELLPADS WITHOUT OGM FOR FIELD SURFACE FACILITIES PHASE 3 PROJECT	HFY-CON/F&C0265-0289/0298/0324	SOW Including Crude Oil Trunkline from CPF2 to Halfaya Pump Station (HPS), Raw Gas Trunkline from CPF2 to CPF1 and Fiber Optic Cable from CPF2 to CPF1. Facilities in Wellheads, Water disposal wellhead, OGMs, such as Multiport Flow Selecting and Testing Package, Closed Drain Drum, Vent Stack, Diesel Power Generator, Instrumentation, Telecom., and utilities, Diesel Power Generator, Instrumentation, Telecom.and utilities, etc.	20.65	<b>EPCC</b>	16-Jul-13	28 Aug, 2015	Halfaya, Iraq
27		EPCC for OHTL from Power Plant to CPF1 Project	HFY-CON/F&C0268-0292	including overhead transmission line from power plant to CPF1, and build a new substation in the north of CPF1 (tie-in to existing power plant in CPF1).	14.79	<b>EPCC</b>	7-Jul-13	3 May, 2015	Halfaya, Iraq
28		CPF1 Improvement, FSF repair, maintainance works in 2015		CPF1 Improvement, FSF production sustaning and fSF repair maintainance.	11.42	<b>PC, Unit Rate</b>	April. 2015	Aug. 2015	Halfaya, Iraq
29		EPCC of FSF Project for Production Sustained in 2016, Oil Transfer Lines between CPF1&CPF2 , CPF1&CPF2 power plant improvement	(HFY-CON-F&C0775-0799-01)	Production Sustained for 2016, Oil Transfer Lines between CPF1&CPF2 , CPF1&CPF2 power plant improvement	23.81	<b>EPC</b>	2016.8.11	2017.8.17	Halfaya, Iraq
30	<b>AL-WAHA</b>	<b>EPCC Service Contract For Ahdeb Oil Field Surface Facilities</b>	041/SC/09 A, B,C,D,E	Ahdeb Oilfield Dev. is the first newly built oilfield in Iraq since Gulf Wars in 1990, and it is an al-inclusive packages for major units. Main SoW is as follows: 1. CPF: 6 trains of oil processing system capacity 120,000 bpd),1 Gas process unit with capacity:86MMscfd, LPG Recovery Uni, 1 Water Injection St.(300,000b/d),WWT: 260,000 BPD,Export Station Tanks, Utilities/BOP incl.50,000m3 tank,10,000m3 tank; LPG Recovery Unit, and 2*2000m3 Spherical Tank, Power station(9sets *8MW of Solar Taurus 70 2. Water Stations(Phase I & II):1 water supply station, 5km water pipeline.3. WS2: 1 water supply station, 40km water pipeline. 3. Export Pipeline(Phase I): Line 1(24**212km)to PS2;Line 2 (10**80km Oil) to Zubaidah Power Plant; Line 3 (16**80km Gas) to Zubaidah Power Plant 4. Field Surface Facilities(Phase I & II): 144 wells, 9 OGM,Truck line 88km+Flowline 164.6km,84.6km*33KV Power Trans.; 23.4km *11KV Power Trans. line	<b>1102.78</b>	<b>EPCC</b>	<b>12-Apr-10</b>	<b>Phase I: 2011/6/30/ Phase II: 2013/12/31</b>	<b>Ahdeb, Iraq</b>

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31	<b>Petroleum Company Ltd.</b>	Supplement Agreement for Extra Work of FSF of EPCC Contract (041/SC/09), Ahdeb oilfield	041/SC/09(FSF/EW/001)	5OGM;25Oil Wellhead;Related Water Injection Wellhead, Oil Tunkline; & Flowline,Water Injection Manifold	26.11	<b>EPCC</b>	8-Dec-12	30-Dec-13	Ahdeb, Iraq
32		CPF Debottleneck of EPCC Service Project, Ahdeb oilfield	020 /SC/12	50,000 m3 Storage Tank,Crude stabilizer ,Flare system and related Pipeline,facilities	38.33	<b>EPCC</b>	10-Dec-12	30-Dec-13	<b>Ahdeb, Iraq</b>
33		PROVISION of CPF EXPANSION OF EPCC SERVICE PROJECT	021/SC/13	CPF Expansion Project include EPCC for 2 new E & F trains in previously completed CPF 4 trains, main work include two new OGM inlet manifolds, one heat medium heater(gas fuel), three sets of portable chemical injection skids and related supplementary facilities.	44.89	<b>EPCC</b>	Feb. 28,2014	29-Dec-14	<b>Ahdeb, Iraq</b>
34		PROVISION of FSF EXPANSION OF EPCC SERVICE PROJECT	021/SC/13	Scope of work for FSF expansion project include EPCC, main work include 5 OGMs, 104 wells, Flowline 190 KM, Trunkline 77 KM, OHTL 60 KM, Road 7 KM.	104.50	<b>EPCC</b>	Dec. 29,2013	30-Dec-2014	Ahdeb, Iraq
35		FSF,export pipeline repair, HDPE lining service in year 2015.	063-SC-1432	offsite wells flowline truckline repair maintenance, EXL1 Emergency crude oil Export, PIPE MAINTENANCE SERVICE BY INTERPENETRATING HDPE LINING TUBE etc.	40.44	<b>PC</b>	Feb. 2015	Dec. 2015	Ahdeb, Iraq
36		PROVISION Of FSF Phase III for PRODUCER AND INJECTIOR PROJECT and Vacuum Deoxygenation Tower used in WS1 Projec		32 wells & 12 injectors, Vacuum Deoxygenation Tower used in WS1 Project, instrument air and Nitrogen Generation system, supply of spare parts.	36.11	<b>EPC</b>	April. 2015	Dec. 2016	Ahdeb, Iraq
37	<b>Iraq South Oil Company(SOC)</b>	Engineering , procurement,construction,start up of Gas Pipe Line 18"x 0.438 (Zubair/1 – Fao)	PRJ-11-4226	Carbon steel pipe line size 18" x 0.438 GR.X according to survey plan (98 KM) length from Zubair/1 depot to Fao depot,and the related Compress station and other facilities	72.35	<b>FEED+EPCC</b>	15-Jul-14	Aril ,2016	Basrah, Iraq
Total cumulative Contracts value (excluding minor work orders)					<b>4863.04</b>				