



INTEGRAL SERVICES CO. W.L.L



INTRODUCTION

- A Kuwaiti company, established in 1976
- Engaged in designing, fabrication, construction, and maintenance services.
- ISCO Services outreach:
 - Oil & Gas Production
 - Petrochemical
 - Power and Desalination
 - Refineries
 - manufacturing



VISION & MISSION

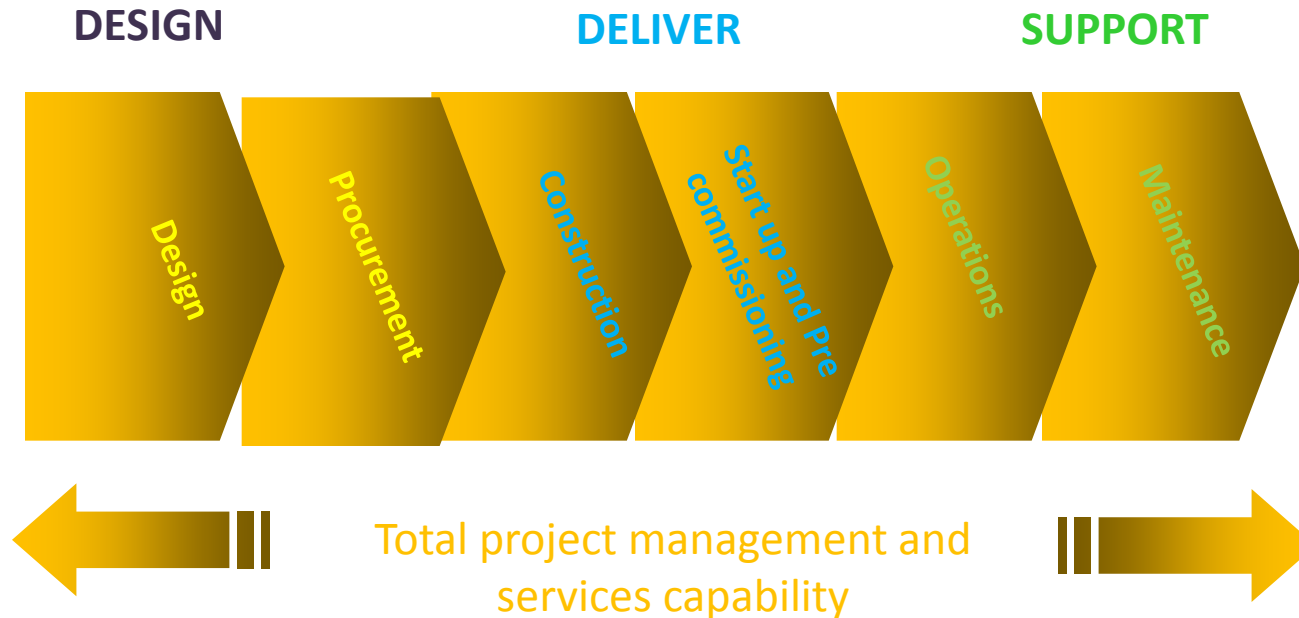
☐ Vision Statement:

To become a world class engineering, construction, manufacturing, and O&M company in the Gulf region.

☐ Mission statement:

Providing our customers high quality services, equal or exceed their expectation, by applying most advanced process through high skilled team.

PROJECTS' MILESTONES



OUR CLIENTS



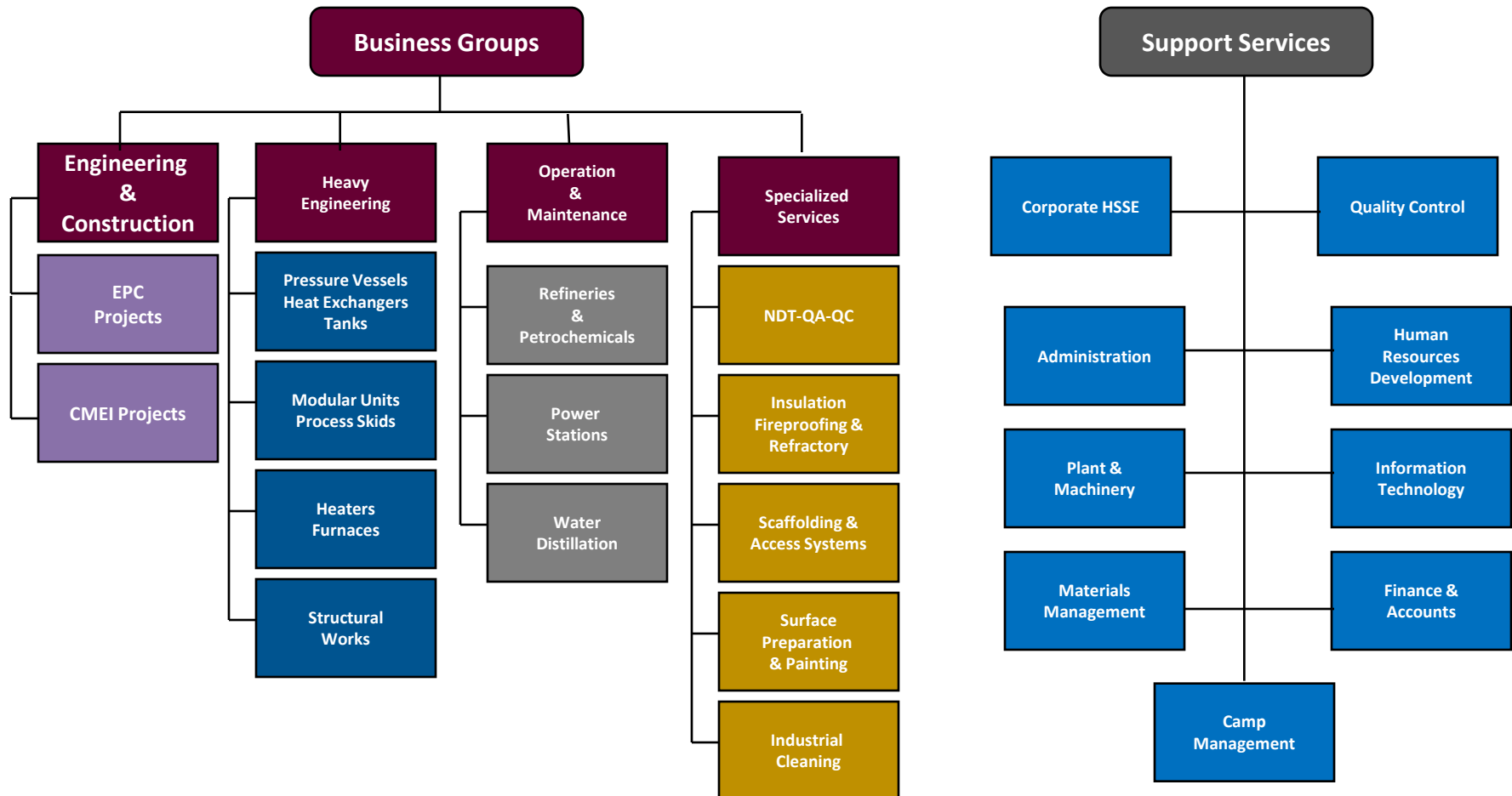
Kuwait Gulf Oil Company (K.S.C.)
A Subsidiary of Kuwait Petroleum Corporation



ALLIANCES



OPERATIONAL STRUCTURE



HSSE

☐ ISCO Develops and Implements Field Safety Program

- Providing mandatory effective safety training courses
- Golden Safety Award from ASSE for two consecutive years.
- Comply with applicable local, and international safety standards.

☐ Membership:



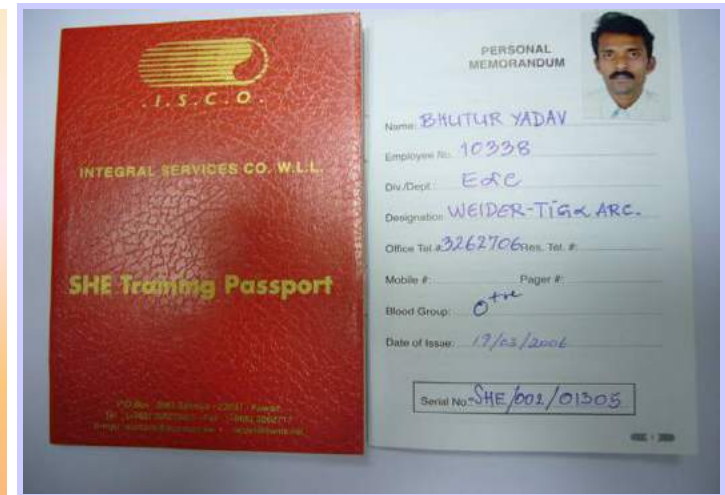
American Society of Safety engineers



British safety Council

HSSE Training

- Safety Induction
- Basic Fire Fighting
- Defensive Driving
- Clients Training Requirements
- Implementation of SHE Passport System



HSSE Reports

- Weekly Safety report
- Quarterly reports
- Corporate HSSE report



QUALITY.....OUR BUSINESS CORE:

ISO, AND OHSA CERTIFIED ORGANIZATION.



Human Capital -Talent Acquisition



Sourcing

- Multi national HR
- Committed towards Kuwaiti labor law
- Over 3500 employees

Craft Testing

- Craftsmen are tested prior to recruitment at Trade Test Centers identified by authorized Manpower Associates.
- Testing facilities for NDT, Welding, Fabrication etc. are available in-house.

Training & Development

- Mandatory training courses include:
 - Technical and new technology
 - Project management
 - Customer relationship
 - Risk management

RESOURCE

Manufacturing

- Fully equipped- state of the art manufacturing facility,
- Manufacturing of pressure vessels, structural works, heat exchangers, platforms and tanks



Equipment and machinery

- Full advanced equipment and Machines for EPC and O&M activities
- maintained by special division P&M



Office and camp

- 4 camps, and 4 buildings, providing accommodation for up to 3500 workers
- Professionally managed in terms of quality, hygiene and entertainment facilities



ERP

- All functions are integrated through in-house ERP “ORION”
- Offices (main office and site office) connected through LAN
- SAP HCM for streamlining human resource functions

ENGINEERING & CONSTRUCTION



Major Services

Civil
Piping
Mechanical Erection
Electrical
Instrumentation
Insulation
Refractory & Fire Proofing
Scaffolding & Access Systems
Surface Preparation & Painting
Industrial Cleaning
NDT / QA-QC
Hydro Blasting



Major Projects

Owner / Customer	Project Description	Contract Value (US \$M)	Year of Completion
KOC	<i>WATER MANAGEMENT AT GATHERING CENTRES. 6, 8, 11 & 19 AT SOUTH EAST KUWAIT AREAS</i>	240.00	Sep. 2020
KOC	<i>IMPROVEMENT IN FIREFIGHTING & SECURITY SYSTEMS AT S&EK MANIFOLDS</i>	18.38	Sep. 2017
FDH JV	<i>KNPC - CFP – MAB II REVAMP SERVICES II – GENERAL PIPING, MECHANICAL, E & I WORKS</i>	75.11	Aug. 2017
TECHNIP	<i>EQUIPMENT INSTALLATION, PIPING TIE-IN WORKS & PIPE SPOOL INSTALLATION FOR EQUATE DEBOTTLENECK TURNAROUND PROJECT</i>	7.15	Dec 2015
KNPC	<i>DESIGN, PROCUREMENT AND INSTALLATION OF FCC BLOWER MOTOR AT MAB REFINERY</i>	6.80	Sep 2015

Major Projects

Owner / Customer	Project Description	Contract Value (US \$M)	Year of Completion
KNPC	ENGINEERING, PROCUREMENT AND CONSTRUCTION FOR H₂S REMOVAL FROM SOUR WATER STRIPPER AT MAB REFINERY	3.90	May 2011
KNPC	DESIGN, PROCUREMENT, CONSTRUCTION AND COMMISSIONING FOR AMMONIA INJECTION FOR HYDRO CRACKER UNIT-14 AT MAB REFINERY	1.25	Dec 2010
KNPC	PROCUREMENT AND CONSTRUCTION OF SMALL AND MEDIUM SIZED PROJECT	102.50	Dec. 2014
KIGC (Air Liquid, France)	ENGINEERING, PROCUREMENT AND CONSTRUCTION OF 1500TPD OXYGEN PLANT	20.00	May 2008

Major Projects

Owner / Customer	Project Description	Contract Value (US \$M)	Year of Completion
<i>EQUATE/ DOW-PIC</i>	<i>New Waste Water Treatment Plant) OL2K facility</i>	19.50	Feb 2008
<i>EQUATE Petrochemicals / Technip , USA</i>	<i>9th Ethylene Cracking Furnace</i>	4.80	Dec 2006
<i>EQUATE Petrochemicals</i>	<i>Poly Propylene Plant Turnaround</i>	8.50	April 2006

Major Projects

Owner / Customer	Project Description	Contract Value (US \$M)	Year of Completion
<i>EQUATE Petrochemicals</i>	Construction of Ethane Maximization Plant at Mina Al- Ahmadi Refinery	1.00	July 2005
<i>Petrochemical Industries Co / Krupp Froddertechnik, Germany</i>	<i>Urea revamp and Modernization project</i>	4.20	Nov 2003
<i>EQUATE / Poonglim E&C</i>	Prefabrication of above piping including surface preparation and painting & Carboline lining of tanks for Equate EIS Project	9.00	July 1998

Major Projects

Owner / Customer	Project Description	Contract Value (US \$M)	Year of Completion
<i>Kuwait Oil Company/ SKEC, Korea</i>	Construction works for Facility Upgrading Project in GC-22	7.60	June 2007
<i>Ministry of Energy / Doosan E&C, Korea (Shuaiba South Power Generation Unit)</i>	Mechanical & civil works for life extension of Distillers at shuaiba south power generation and water distillation unit	17.50	June 2006
<i>Kuwait National Petroleum Co (KNPC) (EPC of Local Marketing facilities)</i>	Engineering, Procurement and Construction for Enhancement of Local Marketing Supply and Distribution Facilities	28.00	May 2008

Major Projects

Owner / Customer	Project Description	Contract Value (US \$M)	Year of Completion
Kuwait National Petroleum Co (KNPC)	EPC of HAZOP Study recommendations	3.10	Nov 2006
Kuwait Oil C	Engineering, Procurement and Construction of New Air Assisted Smokeless Flare at GC's 3,6,8 & 19 (Phase III)	5.40	Dec 2007
Kuwait National Petroleum Co (KNPC)	Installation of Compressor C-12-02 and Reactor V-12-01 (210 Tons) in Unifier units at Shuaiba Refinery	5.50	Jan 2006

Major Projects

Owner / Customer	Project Description	Contract Value (US \$M)	Year of Completion
Kuwait National Petroleum Co (KNPC)	Civil, Piping, Equipment Erection, E&I works - Additional DAF Package Unit	0.50	May 2005
MEW/ Mitsubishi HI	Sabiya Power Station complete Insulation, Electrical and Instrumentation works	14.50	2000
Kuwait National Petroleum Co (KNPC) / Larsen & Toubro Limited, India	<i>Sulfur Recovery Unit</i> at SHU Refinery	2.90	June 2004

Major Projects

Owner / Customer	Project Description	Contract Value (US \$M)	Year of Completion
Ministry of Energy (Reconstruction of Old Boiler)	Mechanical and Electrical works for reconstruction of boiler #12-C to make it fit for the purpose of Shuwaikh Power Station	2.60	June 2004
Kuwait National Petroleum Co (KNPC) / Hyundai HI, Korea	Fabrication & Installation of Pipelines for onshore facilities for the New Oil Pier Project at MAA Refinery	3.40	Feb 2004
Daelim Engineering / KOC (GC 25 Construction)	Upgrading Desalted/ Dehydration Unit at GC-15 Project	1.80	June 2003

Major Projects

Owner / Customer	Project Description	Contract Value (US \$M)	Year of Completion
Joint Operations	Engineering, Procurement, Fabrication and Installation of 2 MGC Ratawi Crude Oil Heaters	2.10	June 2001
National Chemical & Petroleum Industries	Engineering , Procurement and Construction of Bulk Chemical Storage Facility at Joint Operations	0.70	June 2001
Kuwait Catalyst / Hyundai HI	Mechanical Erection, Piping, Electrical & Instrumentation works for Grass root catalyst manufacturing facility	3.10	2000

Heavy Engineering Division



Overview

□ Facilities

State- of- the art fabrication workshop. Fully equipped with advanced machines and tools, to deliver high quality fabrication which meets and exceeds customer requirement

Full capability to run 2 shift per day

□ Materials handled

- Carbon Steel
- Stainless Steel
- Alloy Steel

Cover local and MENA area



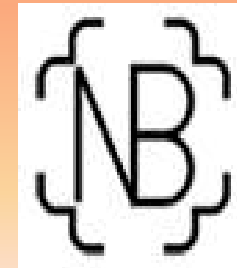
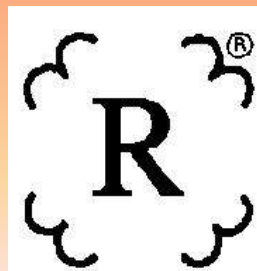
Major Products

Pressure Vessels
Heat Exchangers
Process Skids
Fired Heaters
Flare Systems
Structural Work
Tanks



Certificates & Accreditation

ISCO is an ASME Certified Company under the following stamps:



Major Reference

Technip Stone & Webster USA

- Project : Equate Ethylene Units
- Client : Technip Stone & Webster
- Scope of Work : Fabrication and supply of Pressure Vessels, Drums and Plant steel & Pipes



Major Reference

UOP

- Project : KPPC Aromatics Complex
- Client : UOP
- Scope of Work : Fabrication and supply of Recovery Plus Module



Major Reference

UOP (PSA Skid)

- Project : KPPC Aromatics Complex
- Client : UOP
- Scope of Work : Fabrication and supply of PSA Valve Skid



Major Reference

UOP (Vessels & Exchangers)

- Project : KPPC Aromatics Complex
- Client : UOP
- Scope of Work : Fabrication and supply of 11 nos. heat exchangers and 5 nos. vessels



Major Reference

TKSC (Vessels)

- Project : EBSM (Olefins –II Project)
- Client : The Kuwait Styrene Co. KSC (TKSC) / Shaw Stone and Webster
- Scope of Work : Design, engineering, fabrication and supply of 31 Nos. of vessels (ASME 'U' Stamp)



Major Reference

Peerless Europe

- Project : Tihama, Saudi Arabia
- Client : Peerless Europe
- Scope of Work : Fabrication and supply of 5 nos. Fuel gas Skids including pressure vessels, heat exchangers, piping, valves and instruments



Major Reference

Braden Europe

- Project : Al Zour Power Plant
- Client : Braden Europe B.V.
- Scope of Work : Fabrication and supply of 4 nos. Exhaust Gas Systems



Major Reference

Wafra JO

- Project : Joint Operations, Wafra
- Client : Joint Operations (A JV of Kuwait Gulf Oil Co. and Saudi Arabian Texaco)
- Scope of Work : Fabrication and supply of 2 nos. Crude Oil Heaters



Major References – Pressure Vessels

SI No.	Client	Qty (Nos)	Design		Material of Construction	Shell			Type	Empty Weight	Year of Supply
			Pr	Temp		ID	TL to TL	Thk		(Kgs)	
			(Kg/ cm2)	(Deg C)		(mm)					
1	KUWAIT OIL COMPANY (DESALTER PACKAGES)	4	21.1	121.1	SA 516 GR. 60A 516 GR. 60A105 / INCONEL 625	4500	21000	45	HOR	141895	2017
2	PIETRO FIORENTINI / KOC (DESALTER FEED HEATER PACKAGES)	4	21.42	300	SA 516 GR. 70 SA 204 GR. B SA 106 GR. B NACE+HIC	6000	12500	15	HOR	251000	2017
3	DODSAL ENGG. & CONST. / KOC	10	ATM	93	SS316L	1600~4500	2000~6560	8	VER	3120~183 40	2016
4	TECHNIP / EQUATE VESSELS	5	20	85	SA 537 CL.1 SA 516 GR. 70	4600	6600	30	VER	46000	2015
5	KNPC / COMPLETE VESSEL	1	10	93	SA 516 GR. 70	2438	4900	12	VER	16000	2015
6	PIC COMPLETE VESSEL	1	12	60	SA 516 GR. 70	890	2851	12	VER	1614	2014
7	AL-MULLA/KOC	1	50.7psi	200F	SA 516 Gr. 60N	2591	10668	20	VER	21574	2014
8	KNPC	1	50psi	200F	SA 516 Gr. 60N	2438	4978	12	VER	10656	2014
9	KNPC	1	25psi	200F	SA 516 Gr. 60N	2743	3277	10	VER	7212	2014
10	KNPC	1	95psi	180F	SA 516 Gr. 70N	1524	3658	10	VER	3229	2014
11	KNPC	1	50psi	300F	SA 516 Gr. 70N	1829	5572	13	VER	6027	2013

Major References – Pressure Vessels

SI No.	Client	Qty (Nos)	Design		Material of Construction	Shell			Type	Empty Weight	Year of Supply
			Pr	Temp		ID	TL to TL	Thk		(Kgs)	
			(Kg/ cm2)	(Deg C)		(mm)					
12	GULF SPIC / KNPC	3	3.6~10.2	150	SA 516 Gr. 60N	600~1850	2125~5930	12~14	VER	1981~10151	2012
13	PETROFAC INTERNATIONAL / KOC	18	3.568~45.88	93	SA 516 Gr. 60 / 70	920~2480	1950~6200	10~25	HOR / VER	3898~14151	2011
14	HYUNDAI HEAVY INDUSTRIES / MEW	31	ATM~10.19	36~399	SA312 GR TP 304L / SA240 GR 304L / SA240 TP 316L / SA516 GR 70	304~3000	1000~4500	5~15	HOR / VER / RECT	270~10950	2010
15	KNPC	1	ATM	48.8	SA283 GR C	1800	2500	10	HOR	2580	2011
16	PALL CORPORATION, FRANCE / KNPC	2	15.7	150	SA240 GR 304L	496	1500 (SHELL LENGTH)	6	HOR	600	2010
17	EQUATE	3	10.55	300	SA516 GR70	1000	1400	8	HOR	626	2010/2011
19	DOLLINGER IRELAND LIMITED	48	0.02	85	SA516 GR70(N)	990	1000	6	VER	600	2010
13	OITC GROUP / QATAR PETROLEUM	1	3.059	350	SA516 GR70(N)	2700	3600	8	HOR	4068	2009
20	SAFWAN PETROLEUM / KUWAIT OIL COMPANY	25	3.51~50.76	93	SA516 GR60(N) +NACE MR0175 +NACE TM0284	381~3000	1200~7000	10~14	HOR / VER	650~18100	2010
21	CMI BELGIUM, MARTIGUES I & II PROJECT, FRANCE	8	4.08~35.69	188~450	SA516 GR70(N) / SA387GR12CL2	742~2476	1714~11200	10~30	HOR / VER	2167~16800	2010
22	CMI BELGIUM, BLENOD PROJECT, FRANCE	4	4.07~35.69	33.8~4500	SA516 GR70(N) / SA387GR12CL2	742~2760	1114~13300	10~25	HOR / VER	2167~19000	2010
23	TERMOCHIMICA, SAN SEVERO PROJECT, ITALY	1	12/ FV	257	SA516 GR70(N)	2700	6130	15/ 16	HOR	1510	2009

Major References – Pressure Vessels

18	TERMOCHIMICA, BAYET PROJECT, FRANCE	1	12/ FV	257	SA516 GR70(N)	2700	6130	15/ 16	HOR	1510	2009
24	TERMOCHIMICA, THISVI PROJECT, GREECE	2	9.5-12	257	SA516 GR70(N)	2400-2700	6130	12-15	HOR	1140-1510	2009
25	TERMOCHIMICA, MARCINELLE PROJECT, BELGIUM	1	12/FV	257	SA516 GR70(N)	2700	6130	15/ 16	HOR	1510	2009
26	TERMOCHIMICA DDP HYDROCRACKERS COMPLEX PROJECT, CROAZIA	1	3.6/ FV	240	SA516 GR70(N)	2700/ 1500	8120/ 3100	13/ 10	HOR	16400	2009
27	TERMOCHIMICA, RAS LAFFAN, RAS ABU FONTAS & QAFCO PROJECT, QATAR	10	3.8-6.32 5.62 / F.V 6.5/F.V	168-255	SA516 GR70(N)/ SA 240 316 L / SA 516 GR 70 N	1200/598 3400/2000 3100/2000 3700/2300 600-2972	2100/1642 10130/4100 11150/4100 10130/4100 1507-16250	6-13	HOR/ VER	800-28800	2008 / 2009
28	KUWAIT OIL COMPANY	9	3.57-47.80	93-148.8	SA106 GRB +NACE MR0175 +NACE TM0284	248-914	1000-3148	10-14	HOR / VER	200-1925	2009
29	CMI, BELGIUM. AZ ZOUR POWER PLANT, KUWAIT	2	11.22 / F.V	188	SA 516 GR 70 N	2800	6200	18	VER	15000	2008
30	TERMOCHIMICA, LOTOS, POLOND	2	6.56 / F.V	260	SA 516 GR 70 S5 / SA 240 304L	2300-3400	2700-9500	12-15	HOR	6700-20100	2008
31	ABJ ENGINEERING & CONT. CO	1	7.03	94	SA 516 GR 70 N	2032	3200	10	VER	5058	2008
32	PALL EUROPE LTD.	1	15.7	150	SA 240 304L	496	1577	6	HOR	600	2008
33	NOOTER / ERIKSEN	3	3.5	148 / -29	SA 516 GR 70 N	1500	3350	10	VER	2500	2008

Major References – Pressure Vessels

34	CMI BELGIUM, KUREIMAT III PROJECT, EGYPT	6	4.07–34.6	182.4–450	SA 516 GR 70 N / SA 387 GR12 CL.2	1476–2820	2820–3000	14–40	HOR / VER	3592–17800	2008
35	TERMOCHIMICA, EL-KUREIMAT, EGYPT	2	6 / F.V	310	SA 516 GR 70 N	2730–3200	8150–10750	16	HOR	19300–20500	2008
36	TERMOCHIMICA, IZDEMIR, TURKEY	5	6.25 / F.V	165	SA 516 GR 70 N	2000	3870	12	VER	6000	2008
37	TERMOCHIMICA, IZDEMIR, TURKEY	2	2 / 0.5 V	204	SA 516 GR 70 N	1400–1600	2120–3100	8–10	HOR / VER	2400–3400	2008
38	CMI, BELGIUM. AZ ZOUR POWER PLANT, KUWAIT	16	4.07–11.2	450 / -6 188	SA 387 GR12 CL.2 SA 516 GR 70 N	2026	3100	12	VER	4450	2008
39	UOP / KPPC	7	15.0/ 0.175 13.5/ F.V 24.6/ F.V 44.5/ F.V 3.5–5.17	150/150 149/50 120/50 120	SA 516 GR 70 N / SA 516 GR 70	700–3800	2743–14750	8–44	HOR / VER	1180–28340	2007
40	TKSC (DOW+PIC)	31	0.5–57	150–399	SA 516 GR 70 N	1200–6500	2092–12630	10–45	HOR / VER	1710–82800	2007
41	KOC	1	3.51	260	SA 240 316 L	2118	7720	8	HOR	8050	2007
42	HYUNDAI	7	2.32–17.58	46–82.2	SA 516 GR 70	1200–2000	2000–7000	10–16	HOR	1641–6175	2006
43	KNPC	1	25.31	215	SA 516 GR 70	1250	4500	18	VER	5000	2005
44	CALLIDUS	1	3.51		SA 516 GR 70	2500	4000	18		6000	2005
45	PEERLESS	18	3.51–67.85	38–260	SA 516 GR 70 N SA 516 GR 70	578–1020	2262–5791	10–32	HOR / VER	794–5170	2005
46	PERRY	1	18.49	85	SA 516 GR 485	1676	5437	12	VER	4365	2006

Major References – Heat Exchangers

SI No.	Client	TEMA Type	Qty (Nos)	Design Pressure		Operating Temp (Deg. C)		Fluid		Material of construction			Shell Detail (mm)		Tube Sheet Thk (mm)	Tube OD x Thk(mm)	Empty Weight (Kgs)	Year of Supply
				Shell (Kg/cm ²)	Tube (Kg/cm ²)	Shell	Tube	Shell	Tube	Shell	Tube	Tube sheet	ID-TL to TL	TE MA CL				
1	PIC		5	25.4	32.7	-33/164	50/200	WATER / STEAM	PROCESS GAS	SA 516 GR. 70 / 60	SS 316/ SA 179/ SA 334 Gr.1	SS 316/ SA 266 Gr.2 SA 350 LF2 CL1	5085 / 4350	R	46/ 45	19.05 X 1.65 X 4156 LG	360 1	ONGOING
2	EQUATE		2	20	21.05	260	260	VAPOR / LIQUID	VAPOR / LIQUID	SA 516 GR. 70 / 60	SA 789 UNS318 03	SA 266 Gr. 2	1800 / 3700	R	75/ 115	19.05 X 1.65 X 1800 LG	204 1	2015
3	TECHNIP /EQUATE	BEM BES	8	10.5	18	51	58	HYDRO CARBON	HYDRO CARBON	SA 516 GR. 70	SA 179 SA 789 S 31803	SA 266 GR. 2N	1760	B	120	38.1 X 2.7	480 00	2015
4	PIC	BEU	6	6	606	70	40	HYDRO CARBON	WATER	SA 312 TP 304L	SA 213 TP 304L	SA 182 F 304L	307	R	30	25.4 X 2.77	848	2014
5	PIC	CEU BEW	3	4.3	9	50	45	AMMONIA	WATER	SA 516 GR. 70	SA 179	SA 266 GR. 2N	8000	R	145	19.05 X 2.11	216 00	2014
6	GULF SPIC / KNPC	AES	3	8.2 ~ 10.2	10.5	65/40	34/40.6	Flare Gas + Sour Water	Cooling Water	SA 516Gr. 60N	SA179N	SA 266 CI 2 N	510-735 4243	R	55 ~ 60	19.05 x 2.769	286 0 ~ 623 4	2012

Major References – Heat Exchangers

SI No.	Client	TEMA Type	Qty (Nos)	Design Pressure		Operating Temp (Deg. C)		Fluid		Material of construction			Shell Detail (mm)		Tube Sheet Thk (mm)	Tube OD x Thk(mm)	Empty Weight (Kgs)	Year of Supply
				Shell (Kg/cm ²)	Tube (Kg/cm ²)	Shell	Tube	Shell	Tube	Shell	Tube	Tube sheet	ID-TL to TL	TE MA CL				
7	EQUAT	BEU	3	6.5 ~ 10.5	4.5 ~ 10.5	40/49.8 0/10	56/54.2 73/45	Cooling Water /Glycol	Isopentane / Crude Styrene	SA 106Gr.B SA 516 Gr. 70	SA789 SA 179	SA 266 CI 2 SA 266 Gr 2	300-4553 436-2487	B	45 ~ 51	19.05 x 1.65 19.05 x 2.108	1039 ~ 1447	2013
8	KOC	BEM	2	76.5 70.6	76.5 76.5	100	180	HYDRO CARBON	WATER	SA 516Gr. 60	SA 179			R		19.05 X 2.11 25.4 X 2.41	10200 ~ 12600	2013
9	KOC	BEM	1	76.5	76.5	100	180	HYDRO CARBON	WATER	SA 516Gr. 60	SA 179			R		19.05 X 2.11	10200	2011
10	EQUATE	BEU	7	7 ~ 34.1	7~62	70~200	70~195	Propylene / Cooling Water	LP Steam / Cooling Water Hydrocarbon LP Steam	SA 516Gr60 SA 106 GrB	SA789 UNS318 03	SA 266 CL4 SA 350 LF2 CL 1	247-5060	R	40 ~ 77	19 x 1.65	650 ~ 3750	2010
11	TKSC (DOW+PIC)	H-BEU	19	0.51/F.V ~ 57.0/F.V	0.5/F.V ~ 58.0/F.V	Various	Various	Blow down / Fresh B2 / HP Steam / PEP & NCS / Process Fluid	CTW	SA 106 GrB N SA213 TP 304L	SA179	SA 266 CI 2 N	210 - 6230	B	57 ~ 96	19.05 x 2.77 25.4 x 2.77 38.1 x 2.77	480 ~ 8070	2007
12	UOP/KPPC	H-AEU	11	21.1/F.V ~ 44.5/F.V	13.5/F.V ~ 45.5/F.V	Various	Various	Rich Oil / Lean net gas / Refrigerant	Water / Hydrocarbon & H2 / Refrigerant / Rich net gas / Lean Oil / Cooling Water	SA 516Gr70N	SA179	SA 266 CI 2 N	Various	R	62 ~ 165	19.05 x 2.77	1000 ~ 112210	2007
13	EQUATE	V-BEM	3	10.5/F.V	10.7/F.V	40/49.8 101.7/45 101.7/101.7	56/54.2 40/45 154.3/151.7	Cooling water / Hexane	Iso Pentane or Hexane-1 / Cooling Water / Steam	SA 106 GrB	SA179	SA 266 CI 2	300 - 3050	B	51	19.05 x 2.11	450 ~ 1000	2007
14	PEERLESS	NEN	12	37.93	74	48.9/120.2	227.1/90	Fuel gas	BFW	SA 106 GrB	SA179	SA 266 CI 2	406 - 6000	R	60	19.05 x 2.77	4500	2005

Piping & Structure

Serial	Customer	Project	Type of Work	Material	Total Tonnage (MT)
1	Technip	Equate Debottlenecking/Piping	Fabrication	CS/SS	12,500 inch dia
2	Hanwah	KNPC Plant/piping	Fabrication	CS/SS	16.000 inch dia
3	Larsen & Toubro	Piping Fabrication Works	Fabrication	SA 106	385
4	KNPC	Structural Fabrication for IRT Pipeline Project	Fabrication	SA 36	4800
5	OITC Group W.L.L., Qatar	Kepple Seghers Engineering Singapore Pte. Ltd. (Qatar)	Ducts	SA 36	140
6	Heurtey Petrochem, France	KPPC, Kuwait	Ducts	SA 36	55
7	Callidus	SABIC, Saudi Arabia	Fabr. Of Thermal Oxidizer, Vent Stack & Stair Tower	SA 36	120
8	Technip USA	Equate 9th Cracking Furnace	Stacks and Ducts	CS / SS 310	500
9	Braden Europe B.V	MEW Al-Zour power project	4 exhaust systems	ASTM A 36 & SS 321	2000
10	Technip USA	Equate 9th Cracking Furnace	Fabr. of Radiation Panel	ASTM A36 / RA330 / SS10	145
11	Callidus / QAPCO	QAPCO, Qatar	Fabr. of Ground Flare	SA 36	120
12	Callidus / Dalim	Kuwait Oil Company	Fabr. of Elev. Flare Stacks	SA 36	17
13	Arabian Gulf	Naval Base	Fabr. of Pipe Clamps	SA 36	130
14	Gulf Dredging	UMM Al Marrdam Project	Fabr. of Core LOC Module	SA 36	55
15	KPIOS	Vessels for GC 15 & EWDP Proj.	Fabr. of Platf. and Ladders	SA 36	70
16	National Industries Co.	Expansion Project	Fabr. of Lime Cake Cooking Frames	SA 36	70

Export Orders

Sl. No.	Client	End User/ Country	Equipment Type	Quantity (Nos.)	Year of Completion
1	Termochimica	France, Belgium, Italy, Greece	Deaerator	5	2010
2	CMI Belgium	Martiguez Project, France	BDT, LP and IP Drums	3	2010
3	Termochimica	QAFCO 5 & 6	Deaerator	8	2009
4	OITC Qatar A/c Keppel Seghers	QECW, Qatar	Primary and secondary air ducts	3	2009
5	Termochimica	Grupa Lotos, Poland	Deaerator	1	2009
6	Termochimica	Qatar Gas Operating Co. Ras Laffan, Qatar	Deaerator	1	2009

Export Orders

7	Termochimica	Isdemir, Turkey	Deaerator	5	2009
8	Termochimica	World Control International, Izmit, Turkey	Deaerator	1	2009
9	Termochimica	Upper Egypt Electricity Production, Egypt	Deaerator	1	2008
10	Termochimica	QWEC, Qatar	Deaerator	2	2008
11	CMI, Belgium	Upper Egypt Electricity Production, Egypt	LP Drum	3	2009
12	CMI, Belgium	Upper Egypt Electricity Production, Egypt	BDT	3	2009

FABRICATION AND SUPPLY OF 4 NOS. OF DEAERATORS FOR TERMOCHIMICA, ITALY A/c QAFCO PROJECT, QATAR



Fabrication of 18 nos. Pressure Vessels for Petrofac A/c KOC



Fabrication of 31 nos. Pressure Vessels for Shaw Stone & Webster A/c EBSM Project



Fabrication of Deaerator for Termochimica A/c Egypt, Qatar, Croatia, Poland, Greece, France, Italy



Fabrication of Deaerator for Termochimica A/c Egypt, Qatar, Croatia, Poland, Greece, France, Italy



FABRICATION AND SUPPLY OF 12 NOS. OF VESSELS (IP DRUM, LP DRUM, BDT & FLASH TANK) FOR CMI, BELGIUM A/c FRANCE MARTIGUES BOILER PROJECT I & II & BLENOD PROJECT



MAINTENANCE



Maintenance Services

■ Maintenance of Power Plants

■ Boilers

- Preventive and predictive maintenance
- Retrofitting and revamping
- Repair/ replacement of boiler tubing, furnace tubing, super heater and economizer coils and headers
- Refurbishment of boiler drums, vessels etc
- Maintenance of Heat exchangers, boiler rotary equipment, MOV's

■ Steam Turbines: Capacity from 150 MW to 300 MW .

- Overhauling and maintenance of auxiliary systems
- Maintenance of relevant instrumentation and control systems

■ Sea Water Intake and Desalination facilities

- Major revamp and upgrade of distillation units, rotary equipment, sea water intake facilities



Maintenance Services

- Maintenance of Refineries/ Petrochemical plants:

Well qualified team of engineers and technicians to carry out:

- Shut down & Turn around
- Emergency
- Revamping
- LTSA
- Chemical Cleaning
- Marine Services



Major Projects

Sl. No.	Client	Project Description	Value (Mn.US\$.)	Year of Completion
1	KOC	Maintenance Services for Production Facilities in West Kuwait Area	165.00	Sep-22
2	KOC	Maintenance of Gas and Water Networks and their associated Services in Ahmadi Township.	10.45	Jun-20
3	MEW	Operation and Maintenance of Supervisory Control Centres & Information System.	16.00	Jun-20
4	KOC	Patrolling Surveillance and Operation of Fuel Networks and Booster Stations.	42.36	Mar-22
5	KOC	General Inspection Services at Company Premises.	14.34	Mar-21
6	KOC	O&M of WARA Pressure Maintenance Plant in South & East Kuwait Areas	41.58	Mar-20
7	MEW	Substation Maintenance at Ahmadi	6.56	Jun-17

Major Projects

Sl. No.	Client	Project Description	Value (Mn.US\$.)	Year of Completion
8	KOC	Mechanical Maintenance Services & electrical modification work in Ahmadi	15.92	Jun-18
9	KOC	Workshop Support Services	38.99	Mar-14
10	MEW	Maintenance of Electrical Switchgear and Auxiliaries at Shuaiba Power Station	9.01	Jun-15
11	Equate	Temporary Manpower Supply	0.73	Dec-15
12	Equate	Hydroblasting Services	1.82	Nov-15
13	MEW	Annual Maintenance of Instrumentation & Control System at Shuaiba Power Station	28.28	Jul-17
14	MEW	Annual Maintenance of Electrical Equipment at Az-Zour Power Station	15.62	Jul-17

Major Projects

Sl. No.	Client	Project Description	Value (Mn.US\$)	Year of Completion
15	KNPC	Supply of metallic containers & tube bundles for MAA	0.23	Feb-13
16	Eagle Burgmann	Mechanical seal upgrade project work and related services	1.11	Nov-12
17	MEW	Annual Maintenance works of Electrical Equipment at Doha East Power Station	10.88	Mar-18
18	Equate	Resident Contract – Mechanical Maint. & Projects	13.23	Jul-18
19	MEW	Maintenance of 11/0.433 KV Ring-Main substations at Ahmadi Governorate	6.6	Feb-17
20	Equate	Equate E&C 2014 Turnaround shutdown 2014	5.6	Dec-14
21	PIC	Maint. of High Pressure Vessels	0.83	Nov-14

SPECIAL SERVICES

ACCESS SCAFFOLDING

Project: AGRP-MAA



Site: Mina Ahmadhi Refinery

Client: Sunkyoung Engg & Const.



SPECIALIZED SERVICES DIVISION

■ Scaffolding and Access Systems

- Design, installation and removal of all types of access scaffoldings
- BS 1139 for materials and BS 5973 for erected systems

■ Insulation, Fire Proofing and refractory Lining

- Thermal or acoustic insulation to piping, ducting, boilers and all flat or contoured surfaces
- Materials applied include hand and spray applied systems, perlite and similar cement systems, mineral wool, calcium silicate, fiber glass, etc.
- Approved to apply Fendolite MII, Fendolite TG, Mandolite pyrocate.

■ Surface Preparation, coating and wrapping

■ Industrial Cleaning & Hydro Blasting

- Ultra High pressure (Up to 40,000PSI) Blasting and cold cutting
- High Pressure Water Jetting
- Chemical cleaning and Steam Blowing

Major Projects

Sl. No.	Client	Work Description	Value (USD)	Period
1	KNPC	Insulation, refractory, and fire proofing works for KNPC 3 refineries	28.5 M	2013-2019
2	KNPC	QA/QC Mina Ahmadi	51 M	2014-2019
3	EQUATE	Scaffolding services	3.5 M	2013-2018
4	KNPC	Insulation works for KNPC 3 refineries	15 M	2009-2014
5	KNPC	QA/QC Mina Ahmadi	12M	2009-2014
6	EQUATE	Insulation & Scaffolding Services	5 M	2007-2009
7	EQUATE	Insulation, refractory, lining services	0.889M	2008

NDT DIVISION

- ❑ State- of- the-art Facility
- ❑ Market leader, with high customer satisfaction rate based on:
 - High quality work
 - Full range of equipment & tools.
 - On time Delivery.
 - pre qualified and certified engineers and technicians

NDT Equipments

- ☐ Ultra Sonic flaw detectors
- ☐ Ultra Sonic Gauge thickness
- ☐ Magnetic particle testing equipment
- ☐ Ultra Violet system (Fluorescent, PT, and VT inspection)
- ☐ Gamma Radiography
- ☐ X-Rays
- ☐ Radiation measuring Instrument



NDT Capabilities

☐ Conventional NDT Services

Radiography, Ultrasonic, magnetic particle, Visual, PMI, Eddy Current test.

☐ Post weld heat treatment

☐ Hardness testing

☐ Supply qualified NDT professional, Inspector, and corrosion engineers (Third Party inspection)

☐ Calibration of pressure gauges, and measuring instruments.



NDT References

1. RT, MT, & UT Services for 8 Mega Tanks and Piping at KOC (Main Contractor Tekfen Construction & Installation Inc) KOC Cont. # 26737
2. Providing Non-Destructive Testing Services for three Refineries Cont. # CA/3498 (KNPC, MAA, MAB & SHU)
3. NDT Services for New Crude Pipeline from TL-3 To Doha East Power Station, KOC Cont. # 39755
4. NDT Services for KOC Contract # 29152, Cont. # 07/594
5. NDT services for the Mechanical maintenance of power station at MEW , Al-Zour (Main Contractor KCC)
6. NDT services for the Mechanical maintenance of power station at Shuwaikh.
Ultrasonic Flaw Detection Service in ARD – KNPC, MAA (Cont. # IS/JQ/034/99)
7. Overall Plant Integrity Inspection for Kuwait Chemical Manufacturing Company, Cont. # 99/234
8. Quality Control & NDT services for the boiler super heater coils replacement works for KNPC-MAA, Cont. # CA/3015

NDT References

9. Quality Control & NDT services for the ship repair work for Kuwait Saudi Co. Shuwaikh, Cont. # 00/283
10. Ultrasonic testing of refinery & gas plant piping and equipment at KNPC – MAA, Cont. # CA/3250/CNSL
11. Subsea survey of KNPC, MAA Submarine Pipelines, Cont. # CA/3120/CNSL
12. Eddy Current Testing on Heat Exchanger Tubes at Petrochemical Industries Company, Cont. # 04/487
13. Supply of UT Inspectors & Equipments for Equate Petrochemical Company, Cont. # 04/500
14. Inspection and Assessment of Wafra J.O Assets for Kuwait Gulf Oil Company, Cont. # 05/540
15. Inspection & Certification of LPG Tanks for Gulf Paper Manufacturing Co., Cont. # 06/106/59
16. NDT & PWHT Services for Kuwait Gulf Oil Company, KOC Cont. # 26422 (Main Contractor SK Engineering & Construction Co.)
17. NDT Hardness Testing and QC Engineer Supply for KOC Gas Pipeline Project, Cont. # 07/592 (Main Contractor Metalex Construction Industry)

KEY MESSAGES & SUMMARY

- Good execution capability and track record
- Strong Customer focus
- High safety and quality standard
- Strong technical support from International Alliances and Partnerships
- Ownership culture and value customer satisfaction

THANK YOU