



MAINTENANCE ENGINEERING SERVICES

CLIENT (Final Client)	COUNTRY	SECTOR	PERIOD		DESCRIPTION	
			Year	Months	Plant / Unit	Services
KT Kinetics Technology S.p.A.	Italy	Petrochemical	2017	Up to now	Maintenance Activities for Petrorabigh Project	Maintenance Engineering Services
KT Kinetics Technology SpA (Saipem Spa for Saudi Aramco)	Italy	On-shore	2016	Up to now	Jazan Project	The Project requirement includes the followings: <ul style="list-style-type: none"> Development of Operating Manuals for Sulphur recovery Unit (SRU) Development of Vendor O&M manual for Thermal reactor - licensed by KT Development of Vendor O&M manual for Incinerator - licensed by KT
ALSA Engineering & Construction (ADCO)	UAE	On-shore	2015	6 months	CO2 Injection Plant (Rumaitha) Cluster 14 (N) Cluster 15 (O) CPP	Maximo Maintenance Data Implementation (estimated tags approx.. 6000): <ul style="list-style-type: none"> Asset Data Gathering Asset Specification Locations Hierarchy Equipment Details CSS Test Procedures Maintenance Standard Procedure & related MWI PM and related Job Plans



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Worley Parsons (ADCO)	UAE	On-shore	2015	9 months	BAB-HABSHAN 1 – Phase 1 Development Project	<ul style="list-style-type: none"> ■ Safety Plans ■ Data Validation ■ Maximo Data Upload Maximo Maintenance Data Implementation (estimated /tags approx.. 10000): <ul style="list-style-type: none"> ■ Primary Equipment Location Hierarchy ■ Marked-up Drawings with Maintainable Units ■ Maintenance Standard Procedures ■ Maintenance Work Instructions ■ Asset Details ■ Asset Spares & Item Master ■ Location Details ■ Asset & Location Specification ■ PM & Job Plan ■ PM Programme & Workload Distribution ■ Critical Safety System
Petrofac Emirates (ADCO)	UAE	On-shore	2015	5 months	EPC for Expansion of BAB Gas Compression Station	Asset Integrity Management System Development: <ul style="list-style-type: none"> ■ Identification of Assets (main & sub-system) ■ Detailed Asset Register ■ Criticality Assessment Workshop ■ Development of HSE & BCES ■ Development of Performance Standards for HSE & BC Equipment ■ Compilation of Technical Data for RBI, RBA, RCM, CREDO Software uploading ■ AIMS Review & Close-out



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Petrofac Emirates (ADCO)	UAE	On-shore	2015	6-8 months	BAB development Phase II – Gas Compression Station, wellheads, RDS, substation, trunk- lines	Development of CMMS implementation through the following activities (estimated tags approx..12.000): <ul style="list-style-type: none"> ■ Asset Data Gathering ■ Asset Register and SPIR collection, ■ CSS Assessment, Test Standard Procedures ■ Document Analysis on existing Installations ■ Location details and Specifications ■ Locations Hierarchy ■ Equipment Maintenance Programs and Maintenance Master Plan ■ PM and Job Plans with associated Resources ■ Maintenance Work Instructions and Standard Procedures, ■ Safety Plans, ■ Mark-up Drawings (P&IDs, ...) based on AIMS requirements for Maintainable Units boundaries ■ Data Entry in MAXIMO
SICIM (ENI Iraq BV)	UAE	On-shore	2015	6 months	Zubair Oil Field Development	<ul style="list-style-type: none"> ■ Operating Manual Development ■ Maintenance Manual Development ■ CMMS Development (SAP) ■ ENIMS Development
ENI Engineering E&P (AGIP KCO)	Italy	On-shore	2015	6 months	Kashagan Project	CAD and DATA MANAGEMENT SERVICES <ul style="list-style-type: none"> ■ EMIMS Implementation of Maintenance Engineering Functionality ■ Project Engineering Data Vs. Completion Data Assessment (in SAP)



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BONATTI SpA (Mellitah Oil & Gas BV)	Libya	On-shore	2014	12 months	WAFI Inlet Gas Compression Station Project (WIGCS)	Development of Maintenance Engineering Activities: <ul style="list-style-type: none"> ■ Master Equipment List (MEL) ■ Maintenance Criticality Analysis ■ Maintenance Plan ■ Maintenance Manuals ■ Spare Parts Analysis
QATAR PETROLEUM. QP (Qatar Petroleum)	Qatar	Off-shore	2014	12 months	HALUL Offshore Oil Terminal	Development of Operation & Maintenance Manuals for the following units: <ul style="list-style-type: none"> ■ Incoming Crude Oil Pipeline ■ Crude Oil Distribution Manifold ■ QP Crude Oil Storage Tanks ■ Crude Oil Transfer, Export & Import Systems ■ Formation Water Disposal Systems ■ Sour Gas System ■ Sweet Gas System ■ Flaring System ■ Open & Closed Drain Systems ■ F/G Detection & Monitoring Systems ■ Firefighting Systems ■ Electrical Power Generation and distribution systems ■ Instrument, Utility and Starting air Systems ■ Potable Water Systems ■ Diesel Fuel systems ■ Nitrogen Plant



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						<ul style="list-style-type: none"> ■ Halul Heliport ■ Telecommunication Systems ■ Halul Harbor ■ Waste Water Treatment System ■ Sewage Treatment System
Abu Dhabi Company for Onshore Oil Operations - ADCO. (ADCO)	U.A.E	On-shore	2013	24 months	BAB GAS Compression Station	Development of CMMS implementation through the following activities: <ul style="list-style-type: none"> ■ Asset Data Gathering ■ Asset Register and SPIR definition, ■ Gap Analysis and Asset Assessment on Existing Installations ■ Document Analysis on existing Installations ■ Criticality Analysis ■ MEL Development ■ Locations Hierarchy and gather locations, ■ Equipment Maintenance Programs ■ Maintenance Work Instructions and Procedures, ■ Safety Plans, ■ Mark-up Drawings (P&IDs, ...) based on AIMS requirements, ■ Data Entry in MAXIMO.
GLOBAL PETROPROJECT SERVICES AG (KPO)	Kazakhstan	On-shore	2013	12 months	Karachaganak Project	Field Supervision O&M Services



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NETCO DIETSMANN (Nigerian Agip Oil Co. NAOC)	Nigeria	On-shore	2013	12 months	Okpai CCGT Power Plant	Maintenance Supervision Services
NIGERIAN AGIP OIL CO. NAOC (Nigerian Agip Oil Co.)	Nigeria	On-shore	2013	24 months	Port Harcourt Living Quarter	Maintenance Coordination Services
TECNOMARE SpA (Eni E&P SpA)	Pakistan	On-shore	2013	2 months	BHIT & BADHRA field & Gas Treatment Plant	Development of preliminary Maintainability Analysis for Bhit Gas Treatment Plant Full Field development and wellhead new items of Bhit and Badhra gas field
TECNOMARE SpA (Eni E&P SpA)	Pakistan	On-shore	2013	4 months	BHIT & BADHRA field & Gas Treatment Plant	Development of preliminary availability analysis and reliability data analysis for a feasibility study relevant to Bhit Gas Plant optimization. In particular, the study encloses different configurations of Bhit and Badhra gas field and Bhit Gas Treatment Plant review.
TECNOMARE SpA (Eni E&P SpA)	Italy	Off-shore	2013	2 months	BIANCA & LUISELLA platforms	Development of the following Maintenance philosophies at platform in Adriatic sea (Italy): <ul style="list-style-type: none"> ■ Preliminary Operation & Maintenance Philosophy ■ Redundancy and Sparing Philosophy ■ Accessibility & Maintainability Criteria Guideline.

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ENI ALGERIA PRODUCTION B.V. (Eni SpA)	Algeria	On-shore	2012	Up to now	Sonatrach Menzel Ledjmet East(MLE) pj/ BRN Project/ HMD Project	Multi discipline technical assistance and Supervision on Site during plant Operation and Start-up phases: <ul style="list-style-type: none"> ■ O&M Mechanical supervision ■ O&M Instrumentation Supervision ■ O&M Fire Fighting Supervision ■ O&M HVAC Supervision ■ O&M Pipeline Supervision ■ O&M Telecomm. Supervision ■ Safety Coordination ■ QA/QC Management ■ NDT & Insp. Supervision
ISTITUTO ITALIANO Di SALDATURA (IIS)	Italy	On-shore	2012	3 months	Various	Training Course on the following topics: <ul style="list-style-type: none"> ■ Reliability, Availability and Maintainability (RAM) theory ■ Reliability, Availability and Maintainability (RAM) practical approach and exercitations
SAIPEM SpA (Santos)	Australia	On-shore Pipeline	2012	10 months	GLNG Gas Transmission Pipeline	Development of Operating & Maintenance Manual and Training Manual. In addition, the following Maintenance Procedures have been developed: <ul style="list-style-type: none"> ■ Pig Detectors ■ Scraper Launcher/Receiver ■ Valves & Pressure Safety Valves ■ ESD Valves ■ Hydraulic Power Unit (HPU)



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						<ul style="list-style-type: none"> ■ UPS & Batteries System ■ Shelters ■ Anode Ground beds ■ CCTV System ■ PABX & Data System ■ WAN System ■ ...
TECNIMONT KT (PGNiG)	Poland	On-Shore	2011-2012	4 months	LMG Project - Sulphur Recovery Unit	Maintenance procedures development for the following equipment: <ul style="list-style-type: none"> ■ Filters & Cartridges Filters ■ Gas / Liquid Separators ■ Regeneration Gas Separators ■ Steam Coils ■ Shell & Tube, Air Coolers (Forced draft) & Plate Heat Exchangers ■ Vessels & Columns ■ Internals (Trays and Packing) ■ ...
TECNOMARE SpA (Agip KCO)	Italy	Off-shore	2011	2 months	Kashagan Onshore FPD Plant	Development of Failure Mode and Effect Criticality Analysis (FMECA) for Kashagan Onshore FPD Plant in FEED phase.
TECNOMARE SpA (Eni Iraq bv)	Italy	On-shore	2011	1 month	Zubair Mishrif Degassing Stations, Iraq	Development of a Quantitative Risk Assessment carried out with the purpose to estimate the associated replacement costs. The subject of this cost estimation is a "brown field project" of existing degassing stations in Zubair Oil Field.



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TECNOMARE SpA (Eni E&P SpA)	Italy	On-shore	2011	1 month	Jangkrik Gas Field Development (Off-shore & On-shore facilities)	Development of Preliminary Operability and Maintainability Strategy applied for the Jangkrik Field Development Project from the assets detailed design (Project Selection) phase, to production operations activities till the DEC-AB phase.
KTI STAR (KTI Star)	Egypt	On-shore	2010	4 months	El Arish Gas Compression Station	Development of Maintenance Services such as: <ul style="list-style-type: none"> ■ Production Plant Maintenance Management ■ Maintenance & Inspection Plan definitions. ■ CMMS field updating
TECHNIP KTI SpA (Iplom Refinery)	Italy	On-shore	2010	12 months	IPLOM Refinery. H2 Generation Unit	Maintenance Engineering Services development: <ul style="list-style-type: none"> ■ Maintenance Plan definition ■ Asset Register ■ MEL ■ Spare Parts list ■ Equipment Maintenance Procedures ■ Risk Based Inspection (RBI) development ■ Failure Mode Analysis ■ Criticality Analysis ■ Maintenance Manual



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TECHNIP KTI SpA (Iplom Refinery)	Italy	On-shore	2010	12 months	IPLOM Refinery. HydroCracking (MHC)	Maintenance Engineering Services development: <ul style="list-style-type: none"> ■ Maintenance Plan definition ■ Asset Register ■ MEL ■ Spare Parts list ■ Equipment Maintenance Procedures ■ Risk Based Inspection (RBI) development ■ Failure Mode Analysis ■ Criticality Analysis ■ Maintenance Manual
TECNIMONT KT SpA (KTI Star)	Egypt	On-shore	2010	2 months	El Arish Gas Compression Station	Development of Maintenance Engineering Services such as: <ul style="list-style-type: none"> ■ MAXIMO Asset Management System Support Service: ■ Maintenance Data Gathering ■ Asset Register ■ Maintenance Plan
TECNOMARE SpA (NAOC)	Nigeria	On-shore	2010	1 month	Standard Compression Station	Development of Preliminary Operability and Maintainability Philosophy applied for Standard Gas Treatment and Compression Station installed in Nigerian Country for the development of non-associated Gas field and/or the recovery of associated gas.



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TECNOMARE SpA (Eni SpA)	Italy	On-shore	2010	14 months	World Wide ENI Installations	Development of Maintenance Services such as: <ul style="list-style-type: none"> ■ Asset Integrity Management System Development ■ Gap Analysis of Existing Installation ■ Development of Standard for O&M of Metering Stations ■ Standardization of ENI Metering Stations ■ Facility Procedures ■ Asset management software development
Tecnomare SpA (Eni E&P SpA)	Italy	On-shore	2008/2009	12 months	Oil Gathering Plant	Operation and Maintenance Manual Development
EE SpA (Agip KCO)	Kazakhstan	On-shore	2006/2007	24 months	Gas & Oil Treatment Plant	Asset Register Data & Document Management
EE SpA (Agip KCO)	Kazakhstan	On-shore	2006/2007	24 months	Gas & Oil Treatment Plant	Maintenance Data & Document Management
Snamprogetti Ltd (NAOC)	Nigeria	On-shore	2005/2006	16 months	LNG Plant Bonny Island	Maintenance Engineering services for LNG plant
Snamprogetti Ltd (NAOC)	Nigeria	On-shore	2005/2006	16 months	LNG Plant Bonny Island	Customization, supply and implementation of the Organization and Management System (OMS) backed-up by "CMMS" software package