



PPSL and O3D Nigeria Limited

A PPSL Group Venture

Dedicated to your Projects

Determined to Deliver

Driven to Succeed

Highly experienced professionals in the Oil and Gas sectors

Petro-Pride Subsea





Lagos Office



EKET – Engineering & Fabrication Facility

EKET Office











Introduction

- Petro-Pride Subsea Limited PPSL is a wholly owned indigenous Nigerian company established and incorporated in February 2008.
- **PPSL** has its headquarters located at Km 1 Eket/Ibeno Road, Edeobuk, Eket, Akwa-Ibom State, with branch office in Lagos at 18b Ayinde Akinmade, off Fola Osubo Street, Lekki Phase-1, Lagos State.
- PPSL have formed a partnership with Offshore 3D Nigeria Limited (O3D)
- O3D is an engineering and design company with extensive experience of working in West Africa. O3D is headquartered in Aberdeen UK but with subsidiary offices in Abidjan, Eket and Lagos.







What We Do

Petro-Pride Subsea Limited is positioned to undertake Offshore/Onshore Fabrication & Installation, Topside Engineering Services, Marine Vessels supply & Services, Field Maintenance Services, Air & Saturation Diving Services, Subsea Intervention, Survey Services, Technical Manpower and Project Management Services.

PPSL in partnership with **O3D** – PPSL Delivers Front End Concept & Feasibility Studies, as well as Detailed Design, Engineering, Procurement and Construction by working closely with our Clients as 'One Team', to provide Project Managed "Cradle to Grave" engineering solutions, for Multi-Disciplined (Brownfield and Maintenance Modifications) projects, ensuring technical integrity, safety and successful delivery of projects by leveraging on state of the art methodologies and equipment to enhance and support our highly skilled and experienced engineers, surveyors and designers.



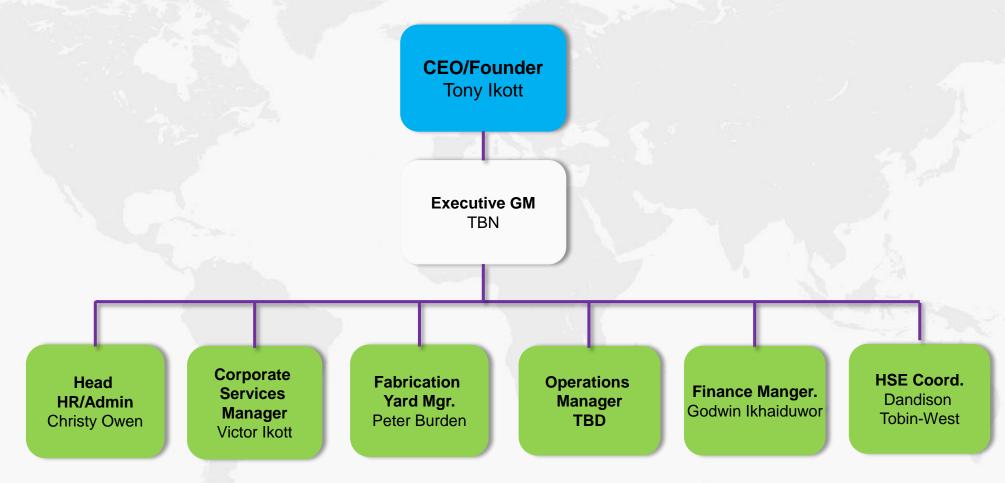






PPSL Corporate Structure















PPSL Key Personnel Experience



Tony Ikott - Founder (18 years)

Victor Ikott - Manager Corporate Services (19 years)

Peter Burden - Fabrication Yard Manager (42 years)

Dandison West - SHE Coordinator (25 years)

G.O Ikhiaduwor - General Manager Finance (27 years)

Christy Owen - Ag. Head of HR/Admin (15 years)

Phil Mccree - Onshore/Offshore Supervisor (35 years)





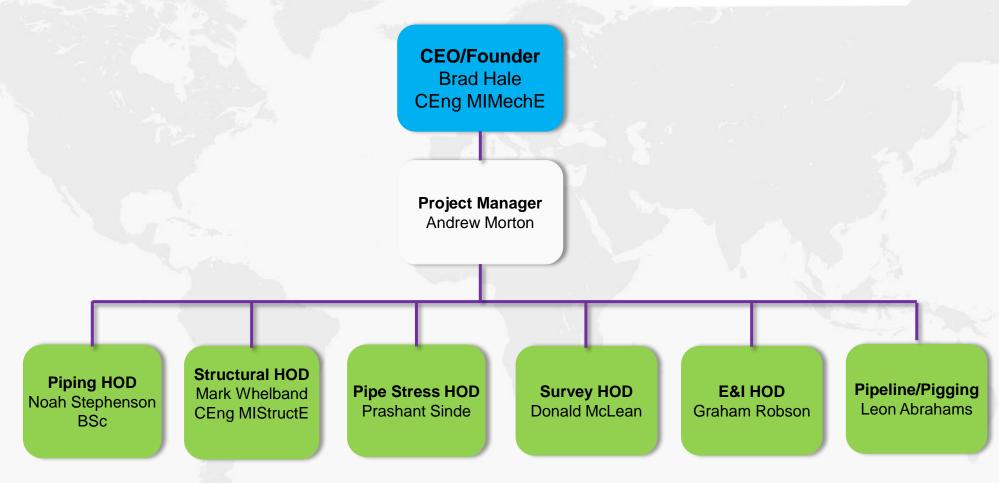






O3D Corporate Structure















O3D Key Personnel Experience



Brad Hale - Founder – UK Chartered Engineer (30 years)

Andrew Morton - Project Manager (30 years)

Mark Whelband - Structural – UK Chartered Engineer (30years)

Noah Stephenson - Piping (10 years)

Prashant Sinde - Pipe Stress (20 years)

Donald McLean - Survey (30 years)

Graham Robson - E&I (28 years)

Leon Abrahams - Pipelines/Pigging- UK Chartered Engineer (20 years)











Vision & Mission

- Our vision is to become a leading global onshore / offshore construction, engineering and diving services provider, through the development of local potentials and importation of worldwide technologies/ best practices and uphold our commitment to deliver high level services with a unique culture and safe working technologies.
- Our Mission is to consistently exceed client's expectation for high quality services and products through training of personnel to acquire knowledge and skills and other means needed to function optimally and efficiently.











PPSL QUALITY & SAFETY

- We are certain that our success stems from the fundamental corporate value of quality. This does not go without say that PPSL is ISO 9001:2008 certified and we are currently processing the upgrade to ISO 9001:2015
- With a strong commitment to continuous improvement, we challenge ourselves to perform to the highest industry standards, insure compliance and provide our clients with the best solutions without any compromise to the standards of quality and services that we are set to deliver
- PPSL have the experience and know-how to extinct your risk on any challenging project, by placing value to those safety measures that aim at eliminating and mitigating risk thereby promoting an accident-free project accomplishments.
- PPSL adopts a leading design solutions that are cost effective, yet robust enough for severe onshore and offshore deepwater service that promotes safety at work.

PPSL!!! "We Take Pride in Personnel Safety Leadership











PPSL SPECIALIZATION

- Provision of EPC, EPIC and EPCM services for Onshore and Offshore Projects. Provision of Accommodation, Hookup and Heavy Lift Barges for Offshore Construction and Maintenance Projects
- Provision of Marine Support Vessels, AHTS, Maintenance and Construction Vessels for Offshore Construction and Maintenance Projects
- Provision of construction, fabrication and storage services with our state of the art fabrication facility.

Provision of Onshore and Offshore integrated logistics base Services for Oil and Gas Operations

















HARVEY BLUESEA













HARVEY BLUESEA

DIMENSIONS & DOCUMENTATIONS

340 103.7 m 73 ft 22.3 m Length Overall: Beam: Depth: 29.25 ft 8.92 m 24.50 ft 7.47 m GRT (ITC): 8,417 Net: 2,525 Max Draft:

US 11.00 ft 3.35 m Classification: ABS Min Draft: Flag:

Classification ID: O.N. 1252457 Year Built: 2017

IMO: 9704685

Notations: †A1, HELIDK, Offshore Support Vessel (Heavy Lift), Circle E, †AMS, †ACCU, †DPS 2, NBLES, ENVIRO+, GP, UWILD,

MLC - ACCOM, MLC 2006, SPS 2008

Certifications USCG, Subchapter I, Subchapter L, SOLAS













HARVEY BLUESEA

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Maximum Speed: 13.00 knots Fuel Consumption: 468 gal/hr 1,770.9 l/hr Normal Cruising Speed: 10.00 332 gal/hr knots Fuel Consumption: 1,256.3 l/hr Weather 8.00 215 gal/hr Economical Speed: Fuel Consumption: 813.6 1/hr Conditions

MACHINERY

12,680 Main Generators: (4) x Wartsila 6L32 Total Rating: kW Main Propulsion: (2) x Schottel SPR3030 Azimuthing FPP Total Horsepower: 8,978 BHP

in Nozzles w/ VFD Motors

Bow Thrusters: (3) x Schottel STT5 FPP w/ VFD Motors Total Horsepower: 6,300 BHP (2,100 BHP each)

Power Generation: 690V/60Hz/3Phase

CAPACITIES & DISCHARGE RATES

Deadweight:	5,789	Lt	5,883.2 Mt	Clear Deck Area:		12,435 ft ²
Deck Cargo:	2,600	Lt	2,642.5 Mt			
Deck Strength	2,048	lbs/ft ³	10.0 t/m ³			
Drill/Rig Water:	929,389	USG	$3,518.1 m^3$	Discharge Rate:	750 GPM	$170.3 ext{ m}^3/\text{hr}$
Fuel:	280,257	USG	$1,060.9 m^3$	Discharge Rate:	750 GPM	$170.3 ext{ m}^{3}/\text{hr}$
Fresh Water:	116,247	USG	440.0 m^3			









HARVEY BLUESEA

ELECTRONICS

Raytheon Anschutz Synapsis Multifunctional Workstations(CREC) at FWD & Aft Bridge Console, Chart Radar, Navmanager Nav Data Manager w/ Alarm Manager, X-Band Transceiver, S-Band Transceiver, Weather Facsimile FAX-408, Gyro Compass System, Anschutz Steering repeater (Dedicated magnetic heading), Saad R5 DGPS Receiver System, Raytheon Anschutz Autopilot 5300 Autopilot, Interschalt Bridge Navigation Watch Alarm System, Skipper Echo Sounder GDS101, Digital Depth Indicator IR301 (Overhead displays fore + aft), JRC NCR-333 NAVTEX Receiver, EPIRB, SART, Portable VHFs, SAILOR Deck Stand 150W MF/HF GMDSS Radio System, SSAS Inmarsat Mini-C Sailor 6110 GMDSS, GMDSS A3, (2) Alarm Panel for Mini-C GMDSS, VHF Radio Telephone without DSC, Sailor Portable GMDSS-VHF SP3520 GMDSS, ICOM IC-A15 VHF-Air Handheld Radio, Loudspeaker/Microphone, Voyage Data Recorder System, Engine Order Telegraph System, Integrated Data & Communication System, CCTV System, Kongsberg KPos 21 DPS-2, HiPAP 500 Serial Line/LAN, Taut Wire Analogue and digital input, Cyscan MK4 Laser, Acoustic Flooring System

<u>ACCOMMODATIONS</u>

87 air conditioned/heated staterooms for 150 person(s) berthing total. The rooms are configured as follows:

24 air conditioned staterooms for 1 person(s) berthing each.

63 air conditioned staterooms for 2 person(s) berthing each.

ROV Control Room, ROV Offline Room, ROV Lounge, ROV Operations Conference Room, (1) x Gym, (3) x Client Offices, Hospital, Cinema, (2) x Lounges











HARVEY BLUESEA

SPECIAL FEATURES

Helideck Diameter: Size Rating: Sikorsky S-61N

Helideck Luggage Shute Weight Rating: Sikorsky S-92, (12 Tons)

246 Lt @ 45.9 ft Construction Crane: Max Lift @ Max Radius: 250 Mt @ 14 m

> Max Lift @ Min Radius: 73.8 Lt @ 118.1 ft 75 Mt @ 36 m

> 19.7 Lt @ 131.2 ft 20 Mt @ 40 m Aux. Lift @ Min Radius:

Max Lift @ Max Depth: 93.3 Lt @ 13,123 ft 94.8 Mt @ 4,000 m

Man Life Rating: 1.48 Lt @ 131.2 ft 1.5 Mt @ 40 m

1.48 Lt @ 9.8 ft 1.5 Mt @ 3 m Max Lift @ Max Radius:

Stores Crane: ROV Hangers:

Stabilizing Tanks

Incinerator

Fast Rescue Craft

Anti-Heeling Tanks

Working Moon Pool:

Water Maker

24 ft 0 in x 24 ft 0 in with Hatch

www.harveygulf.com

NOTICE: The information contained herein is provided solely for the convenience of reference, and Harvey Gulf International Marine does not warrant the accuracy or completeness of the data listed above, which may vary from the current condition of the vessel or equipment. Harvey Gulf International Marine accepts no liability for the content of this document or for the consequences of any actions taken on the basis of the information provided, unless that information is subsequently confirmed in writing by an authorized representative.

CONTACT: PETRO-PRIDE SUBSEA LIMITED www.petro-pridegroup.com Email: solutions@petro-pridegroup.com











HARVEY BLUESEA

From	То	Country	Port / Locality	Client	Project	Activity Summary
1/05/2018	15/05/2018	US	US GULF	CHEVRON	UMBILICAL CHANGEOUT	DEEPWATER UMBILICAL CHANGEOUT (REEL DEPLOYED) JUMPER INSTALLATION
29/06/2018	25/03/2019	US	US GULF	SHELL	FIELD DEVELOPMENT	DEEPWATER FIELD DEVELOPMENT APPOMATTOX FIELD
17/04/2019	30/10/2019	US	US GULF	SHELL	W2W FLOTEL CAMPAIGN	WALK 2 WORK CAMPAIGN UTILIZING AMPLEMANN GANGWAY SYSTEM

Work History











EVEREST













EVEREST

















EVEREST

GENERAL INFORMATION

Type of vessel

Multi-Purpose Ice Class Construction Vessel

Call sign

C6CZ6

IMO number

9769130

MMSI number

311000615

Year of Build

2017

Shipyard

Keppel Singmarine Pte Ltd.

Flag

Bahamas

Port of Registry

Nassau

Class

Primary Class: Bureau Veritas (BV)

1 ++Hull Mach. Unrestricted Navigation, ICE CLASS IA SUPER Secondary Class: Russian

Maritime Register of Shipping (RMRS) KM*, ARC5, AUT1, DYNPOS-3, HELIDECK,

WINTERIZATION (- 30°C), ANTI-ICE, SPECIAL PURPOSE SHIP











EVEREST

MAIN DIMENSION	NS	DECK AREA	
Length o.a.	145.00 m	Clear Deck Area	1 400 m2
Beam	30.00 m	DeckLoad	10 t/m2
Depth	13.00 m	Deck Cargo	4 500 t (VCG 2 m above deck)
Summer Draft	8.2 m	Moonpool	7.2 x 7.2 m
GRT	21 943 t		(with hydraulic bottom cover)
NRT	6 582 t	Main Crane	250 mt @ 12.5 m (55 mt @ 35 m)
Deadweight	7 277 t		MacGregor Offshore Knuckle Jib
Bollard Pull	162 t		Crane AHC 3,000 m
Speed max/eco	15 knots / 12 knots	Second Crane	50 mt @ 16 m (20 mt @ 30 m)
Fuel Oil	4 960 m3		MacGregor Offshore Knuckle Jib
Dynamic positioning	DP3		Crane AHC 3,000 m
Accommodation	200 men	Provision Crane	10 mt under the safe working
Helideck	Ø 25.4 m, 13 t, suitable for		capacity with the boom length 15 m
	MIL Mi-8, Sikorsky type	Travelling Bridge Crane	2x 1 mt under the safe working
			capacity with the boom length 15 m
		Stern Roll	Ø 4 m, length 5 m, SWL 500 mt
		A-frame (option)	SWL 250 mt











EVEREST

ENGINES/PROPULSION

Total output power: 25 200 kW Main generators

4 x 5 500 kW @ 720 r/min

2 x 1 600 kW @ 900 r/min

1 x 800 kW / 440 V / 3 stages / **Emergency generators**

60 Hz / 1 800 r/min

1 x 1 000 kW / 440 V / 3 stages /

60 Hz / 1 800 r/min

Thrusters Number: 5

Total Power: 20 000 kW

Main Propulsion: 2x Azimuth FPP (aft), 5 500kW 1x

Retractable Thruster: Azimuth FPP (fwd), 3 000kW 2x

Tunnel Thruster: CPP (fwd), 2 700 kW

Tunnel Thruster: 1x CPP (aft), 600 kW













Client:	Lion Air
Project name:	JT610 Cockpit Voice Recorder Recovery
Duration:	25 days
Location:	North of Jakarta, Indonesia
Date:	06/12/2018 - 4/1/2019
Work Scope:	Search for Cockpit Voice Recorder (CVR) and human remains. CVR location was identified and afterwards the Indonesian Navy came and recovered it.
Activities:	ROV and Air Diving performed in 30m water depth

EVEREST

Client:	PT Timas Suplindo, (End client Premier Oil)
Project name:	Bison, Iguana and Gajah Puteri (BIGP) Development Project
Duration:	70 days + 28 days options
Location:	Natuna Sea, Indonesia
Date:	01/9/2019 - ongoing
Work Scope:	 The placement of various subsea structures; Installation, and removal of flexible risers; Laying of flexibles and umbilicals; Measuring/fabricating and tying in spools; Connecting the flying leads; Performing the pre-pre-commissioning activities (FCG, pigging, and dewatering, etc.).
Activities:	ROV Operations 70m water depth SAT Diving 70m water depth Reel lay Lifting
Status:	Project Started











OOS - Serooskerke

SEMI SUBMERSIBLE CRANE / ACCOMMODATION UNIT













OOS - Serooskerke













OOS - Serooskerke













OVERVIEW

Semi-Submersible Crane Vessels 00S Serooskerke and 00S Walcheren are multifunctional assets with the ability to offer various services such as: Accommodation, Heavy Lifting, Installation, Modification, Decommissioning, Renewables and Subsea Installation & Removal.

With first-rate station keeping abilities and large crane capacity of 4.400 t in tandem, heavy modules can be placed on the large open deck. In combination with offering the facilities of the Floatel, OOS can deliver turn-key solutions to meet your business needs.

SSCV HIGHLIGHTS

- Unique braceless design
- Hotel capacity is 750 persons on board
- Construction/crane vessel 2x 2.200 t
- Fast compressed air assisted ballast system for quick compensation during lifting operations
- Subsea construction and subsea support up to 3.000 m with Active Heave Compensation up to 5,0 m stroke
- Platform removal and installation
- High transit speed of 11 kn
- DPS-3 with enhanced EHS-P notation
- Excellent proven motion and stationkeeping characteristics
- Low running costs and fuel consumption in both DP and
 Transit Mode due to close—loop (close bus bar) operation

OOS - Serooskerke















OOS - Serooskerke

MAME	: VND	DA	۸V	٨ħ	VIII	h
NAME	AND		JΛ	УN	VVI	V

Estimated delivery date : 00S Serooskerke

Q3 2019

OOS Walcheren

Q2 2020

Builders : China Merchants

Heavy Industry

: Marshall Islands Flag/Port of reg.

MACHINERY/PROPULSION

Main Gensets Engine : 8 x STX 8L32/40 MCR 4.000 kW

: 6 x 3.8 mW Thrustmaster Propulsion

Fixed Pitch Azimuth Thrusters

Underwater Demountable

: Azimuth Thrusters Steering

: 11 kn Speed

Power Management

System incl. DPS : Kongsberg Marine











OOS - Serooskerke

GENERAL

Classification : ABS

Notation : A1. Column Stabilized Unit. Crane Service. Construction & Maintenance Service, Accommodation Service, **★AMS**, **★ACCU**, **★DPS-3**, EHS-P, ENVIRO-OS, UWILD, IHM, CRC, (HC-SUBSEA-PL,OC), HAB+(MODU), SKP, PMP+, EGC-SCR, ISQM, BWT+

IMO : 9826512 Length : 137.75 m Beam : 81.0 m Depth molded : 12.0 m

: 42.80 m from keel Main deck height

Deck box height : 12.8 m : 11.3 m (excl. Transit draught

thrusters)

Operating draught : 20.0 m fexcl.

thrusters)

Heavy lift draught : 22-26,4 m (excl.

thrusters)

Lightship weight : 37.800 t

CARGO CAPACITIES

Clear deck space : 3800 m² Deck Load : 15 ton/m² Variable Deck Load : 6.037 t : 3.357 t Transit Pay load Fuel : 2.828 t : 1.642 t Potable water: : 77,5 t Lub oil

SAFETY

Life boats : 10 x 150 POB

Life rafts : 30 x 25 POB for total 750 POB

ACCOMMODATIO

750 POB : 1-Man cabin: 90

> : 2-Men cabin: 318 : 4-Men cabin: 6

101 cabins with day light

DECK MACHINERY

Heavy lift cranes : 2 x 2.200 t @ 22.1 m.

Huisman Capable of tandem lift

4.400 ton and for Subsea Operations up to 3.000 m with Active Heave Compensation up

to 5.0 m Stroke

Service Cranes : 1 x 36 t @ 23,5 m, Huisman

1 x 60 t @ 38.0 m, Huisman

: Telescopic - Hydraulic Type, Gangway

Huisman Nominal Length 39,0 m.

Stroke $+7.5 \, \text{m} / -7.5 \, \text{m}$

: 4 x SMIT Tow Brackets Towing : (Optional) 8 point mooring Mooring

system 1.500 m 76 mm wire

: (Optional) 2 ROV units ROV

Diving : (Optional) SAT Diving Spread













Marine Vessels LIGHT DIVE BOAT / RHYNO















PPSL WORKHISTORY

S/N	Project Name	Project Value (USD)	Client	Date of Award	Project Status	Completion
1	QH MOBILE POWER UNIT	2,572,154.49	Mobil Producing Nigeria Unlimited	Sept, 2019	Ongoing	-
2	QIT CRITICAL BUILDINGS PROJECT- GROUP 1 (Change Order: MARINE WARE HOUSE & JETTY REPAIR PROJECT & QIT WIRELINE BUILDING RENOVATION PROJECT)	708,949.34	Mobil Producing Nigeria Unlimited	Sept, 2018	Ongoing	
3	Provision of Field Installation Vessel and Project Management team for OCIP III field installation	1,499,000.00	PMNL/ Mobil Producing Nigeria Unlimited	March, 2019	Completed	May, 2019
4	UBIT PRODUCTION PLATFORM RESTORATION PROJECT	6,964,900.00	VNL/Mobil Producing Nigeria Unlimited	March, 2018	Completed	August, 2018
5	JVO PLATFORM APPURTENANCES & FACILITIES REPAIR CAMPAIGN PHASE 1 – 6	56,515,368.36	SNL/Mobil Producing Nigeria Limited	Oct. 2015	Completed	Sept, 2017
6	36" QIT-SPM 3 CONDENSATE EXPORT PIPELINE ASSESSMENT & WRAPPING CAMPAIGN	1,878,755.17	SNL/Mobil Producing Nigeria Unlimited	August, 2016	Completed	Oct, 2016
7	ETIM 101 CRANE INSTALLATION & COMMISSIONING PROJECT	1,603,612.01	Mobil Producing Nigeria	08-Jul-14	Completed	Dec. 2015
8	ASASA VA Wells Pre-Shutdown Wells Redevelopment	1,832,684.98	Mobil Producing Nigeria	15-Feb-14	Completed	Oct, 2015
9	Provision of a Field Installation Vessel for UBIT EAP Shutdown Project	1,900,000.00	Mobil Producing Nigeria	18-Feb-15	Completed	Mar. 2015
10	PROVISION OF EMERGENCY INSTALLATION AND CONSTRUCTION VESSEL	3,900,000.00	Shell Petroleum Development Company Nigeria Limited	11-Aug-14	Completed	Nov. 2014
11	Provision of Multi Functional Dive Support Vessel and Construction Tools/ Project Management Team (PMT) and Construction Personnel under Offshore Construction Integrity Program (OCIP-I)	52,848,000.00	Mobil Producing Nigeria	Mar, 2012	Completed	Aug. 2015















PPSL WORK HISTORY

S/N	Project Name	Project Value (USD)	Client	Date of Award	Project Status	Completion Date
12	Provision of Multi Functional Diving Support Vessel and Diving Services to Field Maintenance Group in ExxonMobil from 2012 to date (Reference: Russ Spahr/ Frank Betts; Manager CMO, ExxonMobil)	13,000,000.00	Mobil Producing Nigeria	2012	Completed	2015
13	Platforms Jackets Subsea Structural Integrity Inspection and Inspection reports	22,680,000.00	Mobil Producing Nigeria	2013	Completed	2013
14	Carried out Installation of Subsea Plidco Clamps on 24" Ruptured pipeline on Edop to QIT pipeline	54,000,000.00	Mobil Producing Nigeria	2008	Completed	2012
15	Provision of Multi Functional Dive Support Vessel and Construction Personnel Tools/ (PMT)	52,848,000.00	Mobil Producing Nigeria	Mar, 2012	Completed	Aug, 2015
16	Provision of Multi Functional Diving Support Vessel and Diving Services to Field Maintenance Group in ExxonMobil from 2012 to date	13,000,000.00	Mobil Producing Nigeria	2012	Completed	2015
17	Platforms Jackets Subsea Structural Integrity Inspection and Inspection reports	22,680,000.00	Mobil Producing Nigeria	2013	Completed	2013
18	Carried out Installation of Subsea Plidco Clamps on 24" Ruptured pipeline on Edop to QIT pipeline	54,000,000.00	Mobil Producing Nigeria	2008	Completed	2012















PPSL WORK COMMENDATION

Mobil Producing Nigeria Unlimited

Mobil House, Lekki Expressway P. O. Box 73325, Victoria Island, Lagos, Nigeria 234 (pl 817 020 2020 Tel 234 (pl 817 030 3030 Tel 234 1 2801100 - 14 Tel 234 1 2821733 Fax 234 1 2621733

ExonMobil

September 29, 2016

Petro Pride Subsea Limited 18B Ayinde Akinmade, Off Fola Osibo Street Lekki-Phase 1 Lagos State, Nigeria

Attention: Mr. Tony Ikott

Dear Sir,

Letter of Commendation on Safe Execution of 36°Condensate Export Pipeline Wrapping Campaign

Mobil Producing Nigeria Unlimited (MPN) Offshore Program wishes to recognize Petro Pride Subsea Limited for exemplary marine safety performance and construction support excellence leading to the successful and safe completion of the wrapping campaign.

Your team demonstrated admirable leadership and professionalism in the safe and successful implementation of subsea wrapping of the damaged 36" condensate export pipeline.

We commend you for this laudable achievement. Your actions confirm that MPN and its contractors, working together in partnership, can achieve our goal of flawless execution of projects where nobody

Please accept this recognition letter as a token of our appreciation.

Congratulations!

Akintaye O. Akinola Project Manager, PFUP & Gaslift.

Very truly yours,

Olayinka B. Ismail Offshore Program Manager John S. Unietis.

Nigeria Project Executive

Chairman & Managing Director: Nolan A. O'Neal (U.S.A.); Directors: Paul A. Dieffenthaller (U.S.A.); Udom U. Inoyo. Oluseyi, A. Afolabi, Olusegun O. Barwo, Sadiq A. Ademu

R.C 6284

An ExxonMobil Subsidiary















PPSL FABRICATION WORKSHOP















PPSL FABRICATION WORKSHOP















PPSL FABRICATION WORKSHOP

- Our fabrication workshop is a (100 x 40)m twin modern facility, with attached one storey office block/ Engineering centre
- Paint and Sandblasting shop of (20 x 40)m
- Warehouse of (60x40)m
- Pipe stacking area of 300m2
- Mechanical/Instrumentation workshop (20x 40)m
- Diving Shack (20x30)m
- PPSL posses a team of astute professionals with sound knowledge of the latest fabrication techniques in the industry.









PPSL MACHINERY/HAULAGE























ENGINEERING



O3D Primary Design and Engineering Disciplines:

- OFFSHORE DIMENSIONAL CONTROL AND LASER SCAN SURVEYS
- 3D MODELLING FROM LASER SCANS
- PIPING ENGINEERING AND DESIGN
- STRUCTURAL ENGINEERING AND DESIGN
- ELECTRICAL AND INSTRUMENTATION
- PIPELINES
- SUBSEA ENGINEERING
- PROCESS ENGINEERING
- ROPE ACCESS
- LIFTING/CRANE INSPECTION
- INTEGRITY INSPECTION
- PROJECT MANAGEMENT











Capabilities (ENGINEERING)



Design

- Multi-discipline engineering and design Team
- All experienced in multiple 3D CAD/CAE platforms with Laser Scan data integration.
- Design checkers have over 40+ years experience each.

Engineering

- Project Management Team
- Mechanical, Structural, Process and Piping discipline engineers
- All familiar with multiple standard codes and calculation methods used in the industry.
- Stress engineers. CAESAR II, Ansys, STAAD Pro
- Innovative and Solutions driven
- Technology Aware











Survey



Survey Methods

Experienced dimensional control surveyors with onshore and offshore experience in the following areas:

• North Sea, Caspian, Kazakhstan, Norway, West Africa, China, Korea, Singapore, and North America.

Theodolite-Leica Total Station

Outputs flange, piping and structural CAD model to O3D intelligent software.

- Determines exact type, pressure class, orientation, location and any rotational deviations of pipe flanges
- Structural steel recognised by scanning and theodolite software
- Successfully used in West Africa for 6+ years

Laser Scanning - FARO Focus X330 Scanner

- Integrates with Theodolite data
- Extract Piping and Structural model
- Inserted in CAD 3D Models











Survey-Laser Scanning







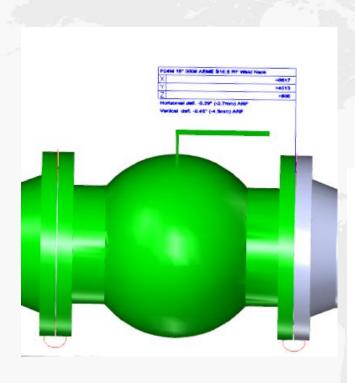


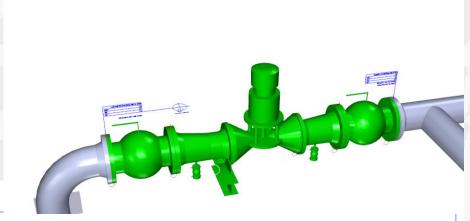




Survey-Tie Points







F04M 18" 300# ASME B16.5 RF Weld Neck	
\times	+6617
Y	+4513
Z	+606

Horizontal defl. -0.29° (-2.7mm) ARF

Vertical defl. -0.48° (-4.5mm) ARF







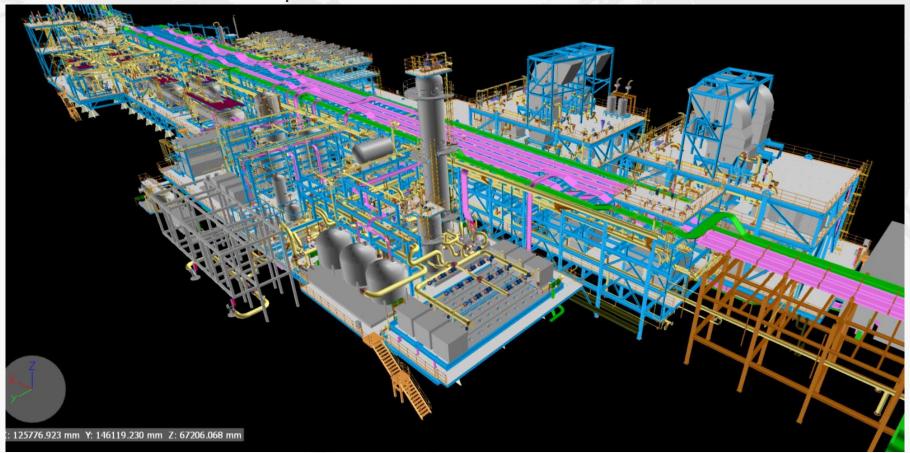




DESIGN



We can undertake major redesign projects- or change out anomaly spools- Our engineering team are flexible to the client requirements













DESIGN







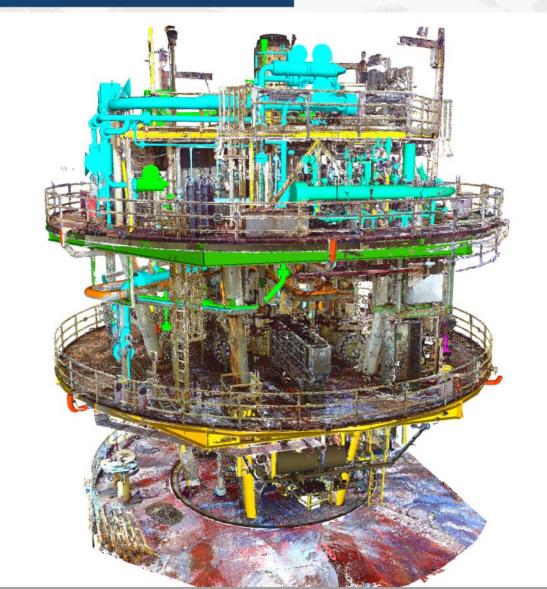






DESIGN – FPSO Turret

3D Modelling, design and engineering of an FPSO turret using laser scans and survey technology









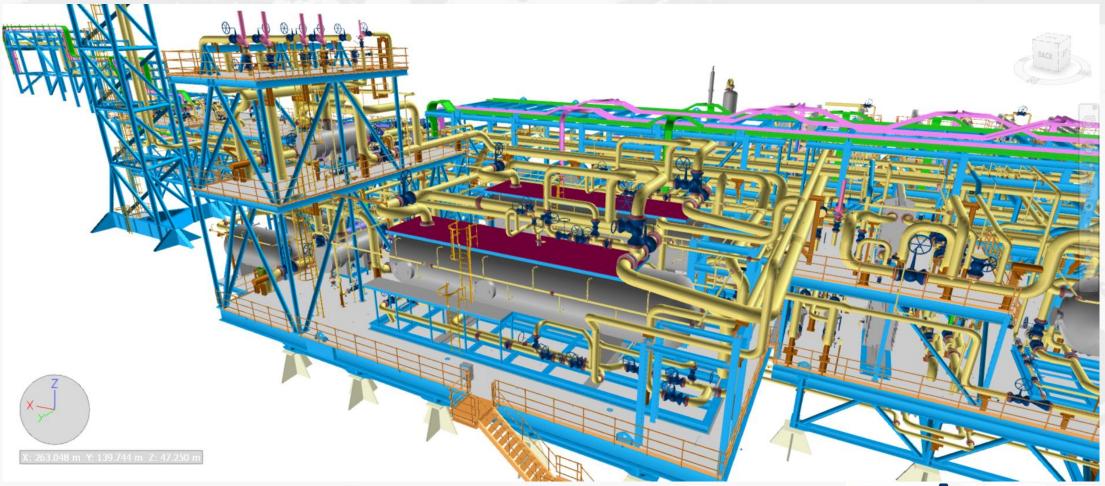




Design



3D Modelling and reverse engineering using laser scans and survey technology





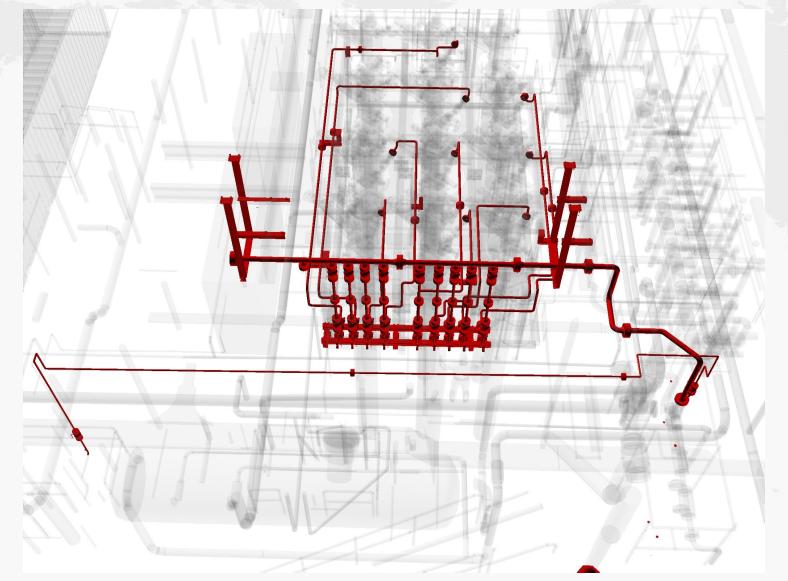








PIPING Gas Lift system design and analysis















PIPING Gas Lift system design and analysis





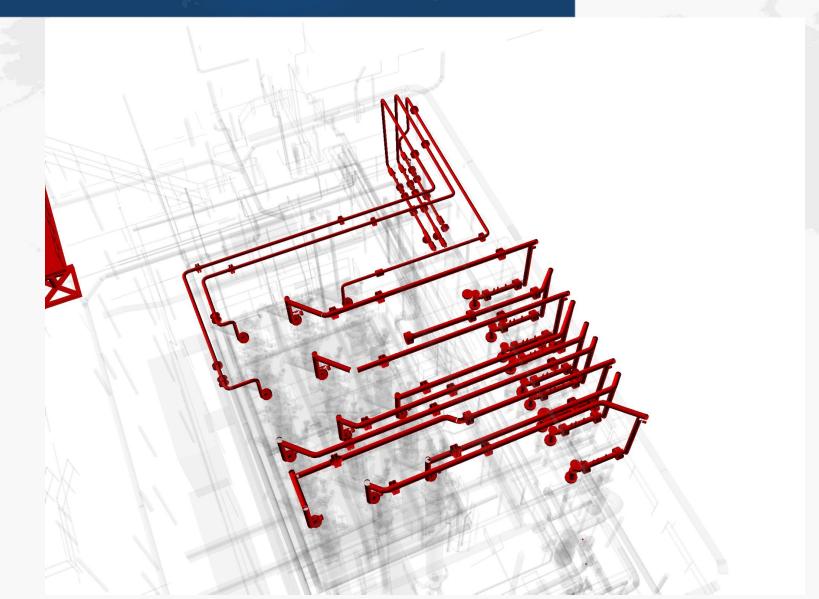








PIPING- Flowline design and analysis







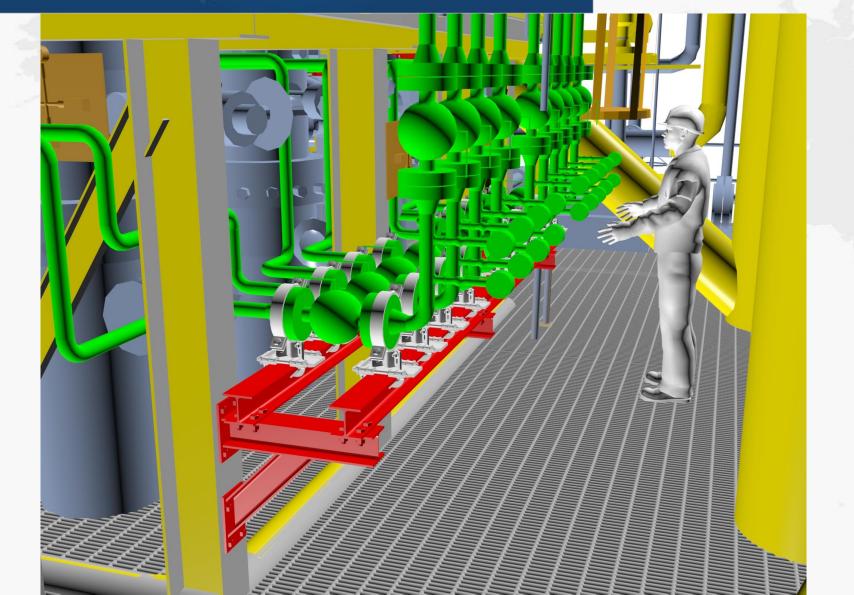








PIPING Gas Lift system design and analysis







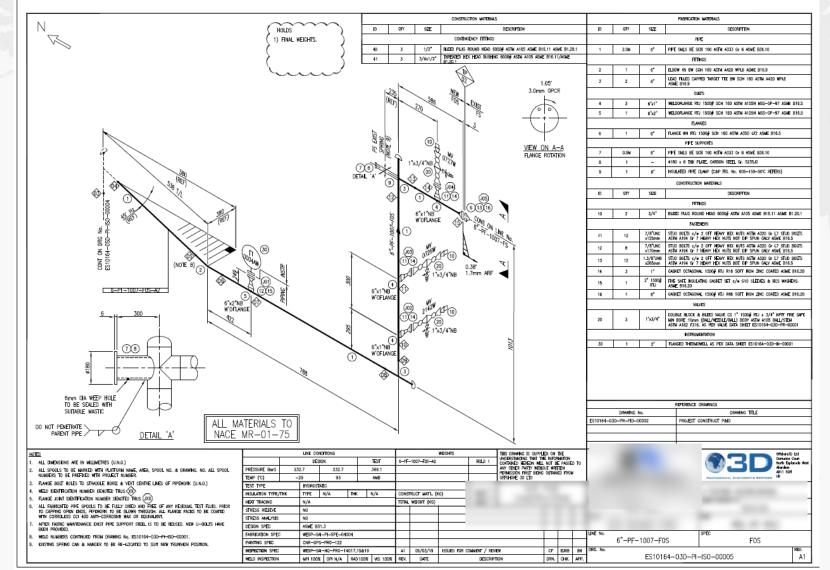








PIPING







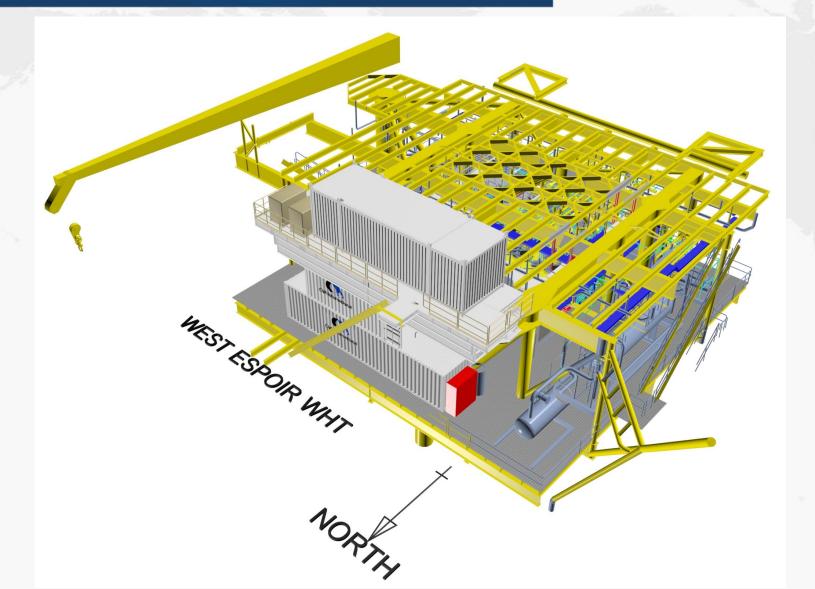








Modelling ENGINEERING SERVICES















Laser Scanning and Modelling





Well Head Tower Projects













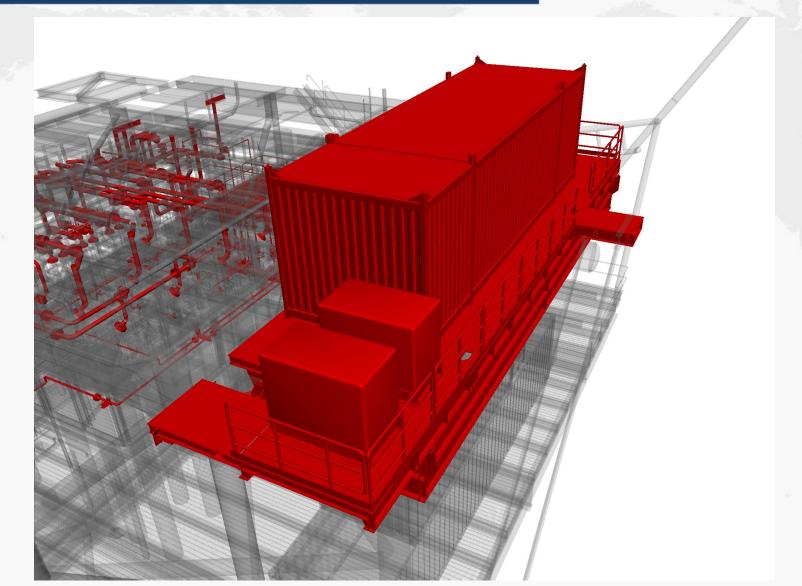


Structural Decks extensions and Gangways





Structural Deck Extension Design







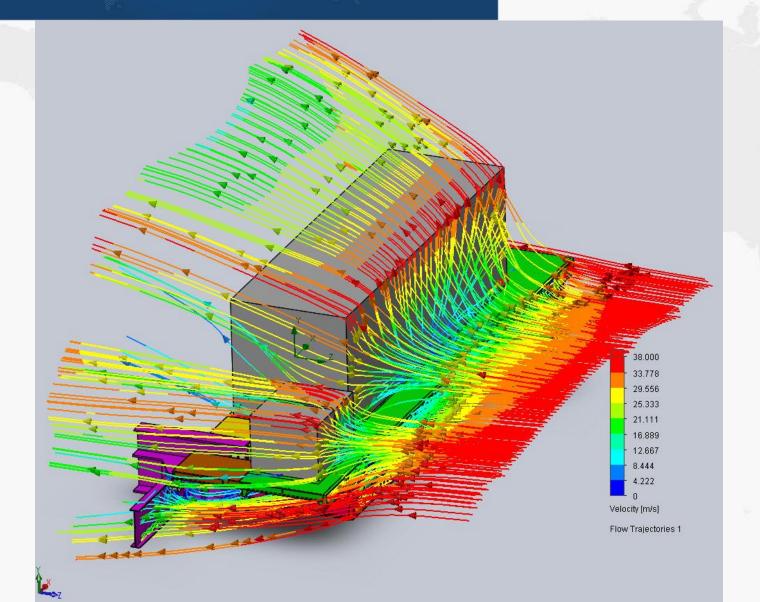








Structural Computational Fluid Dynamics







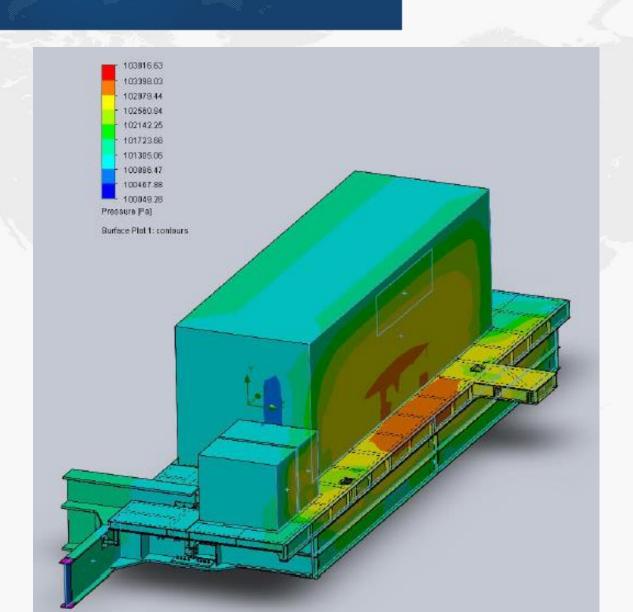








Structural Computational Fluid Dynamics







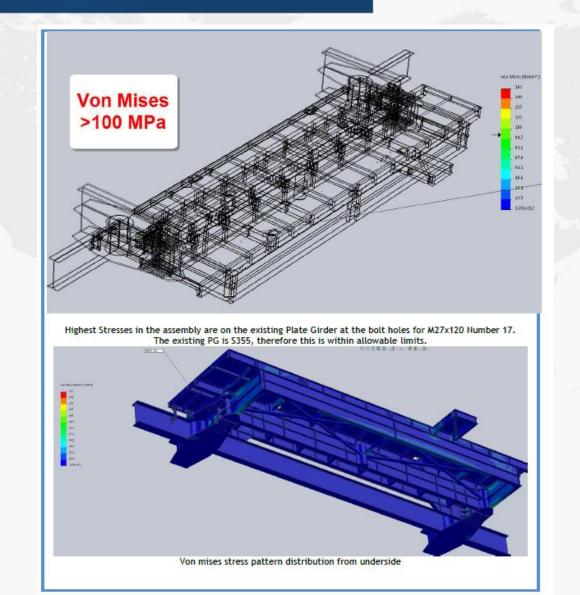








Structural Computational Fluid Dynamics

















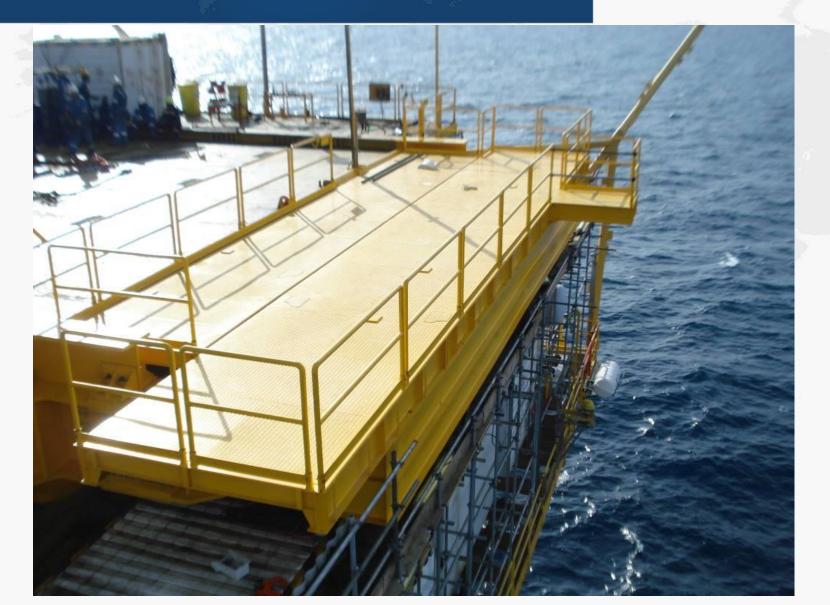














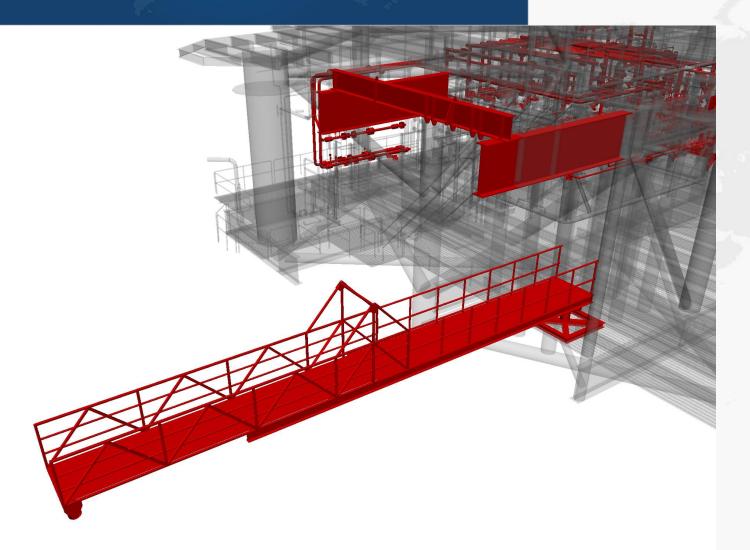














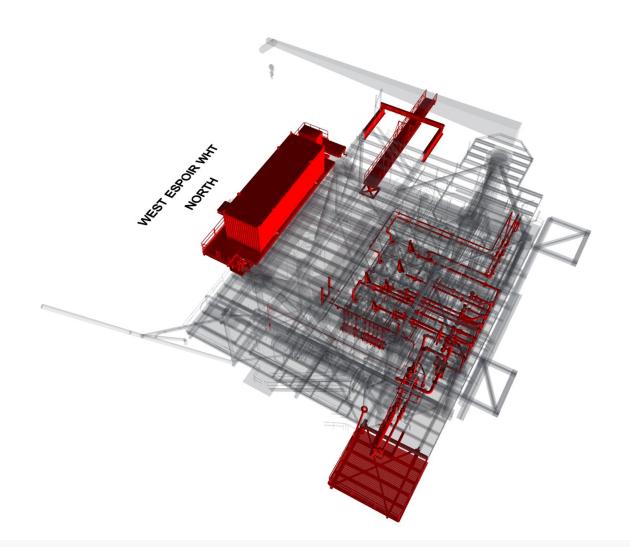




















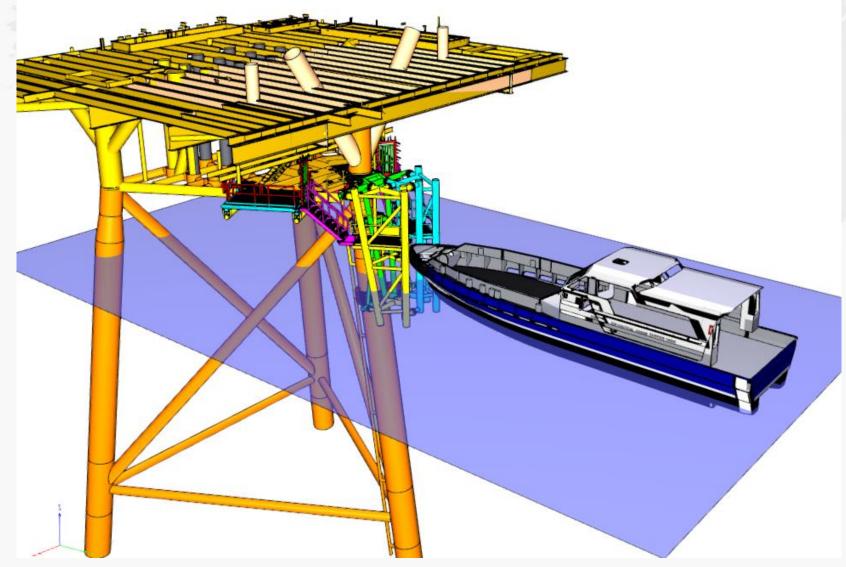








Structural - Boat Landing Design







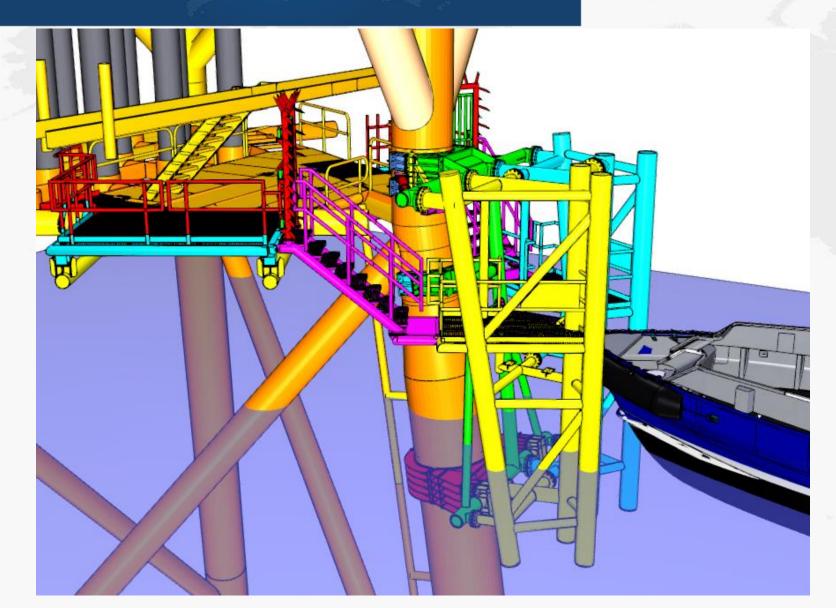








Structural - Boat Landing Design















Structural















Structural

ENABLE DRILLING SETUP







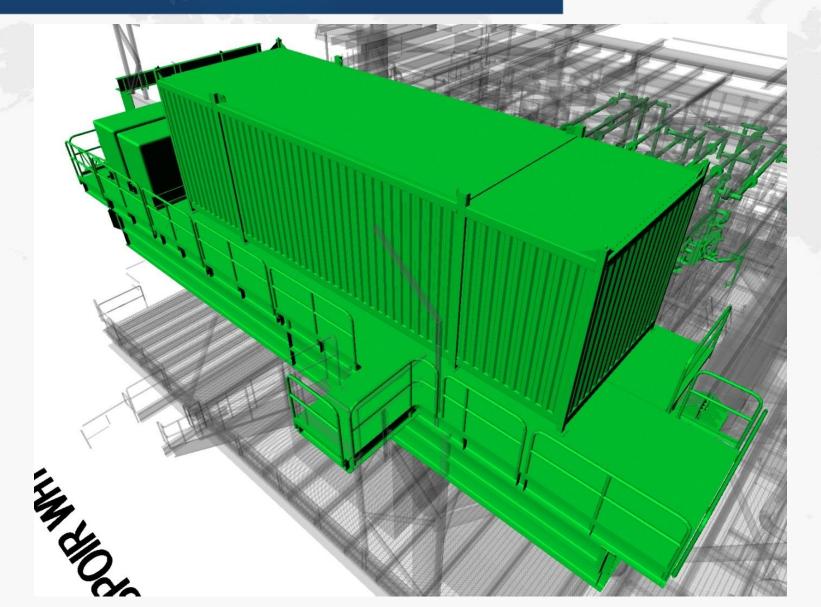








Structural — Cantilever Deck Design







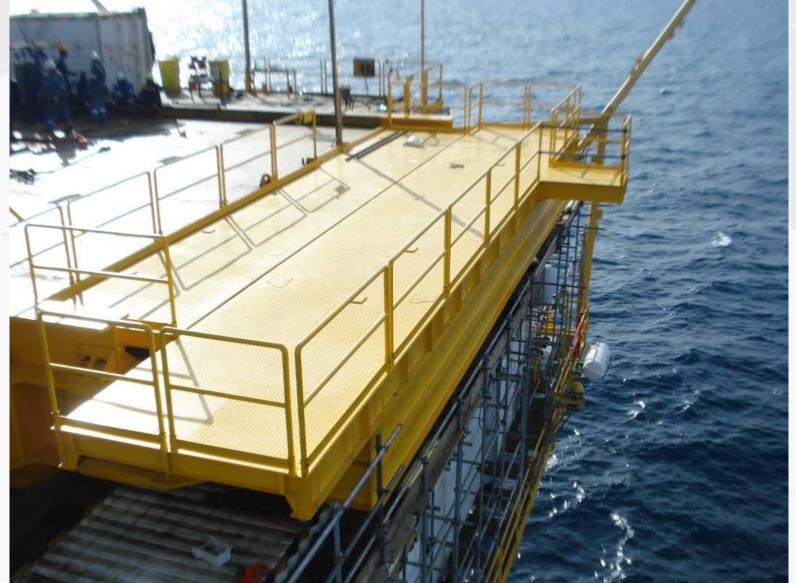








Structural — Cantilever Deck Design









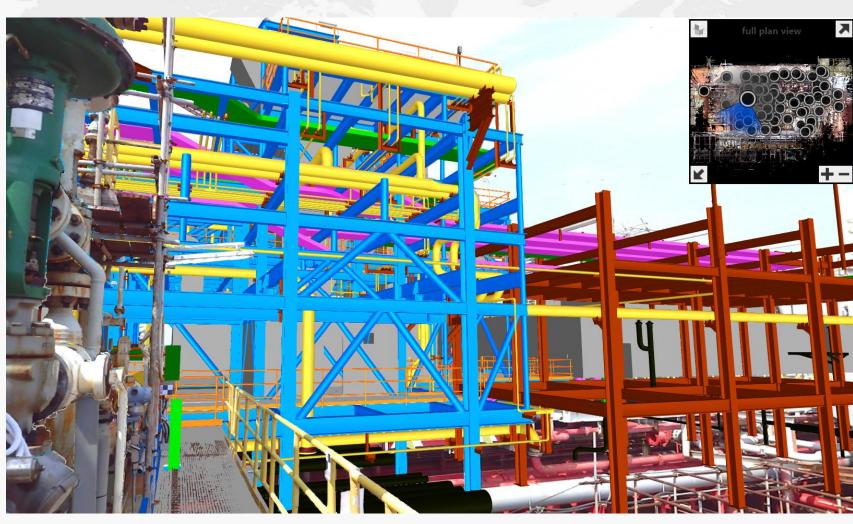






Structural - FPSO Module Design









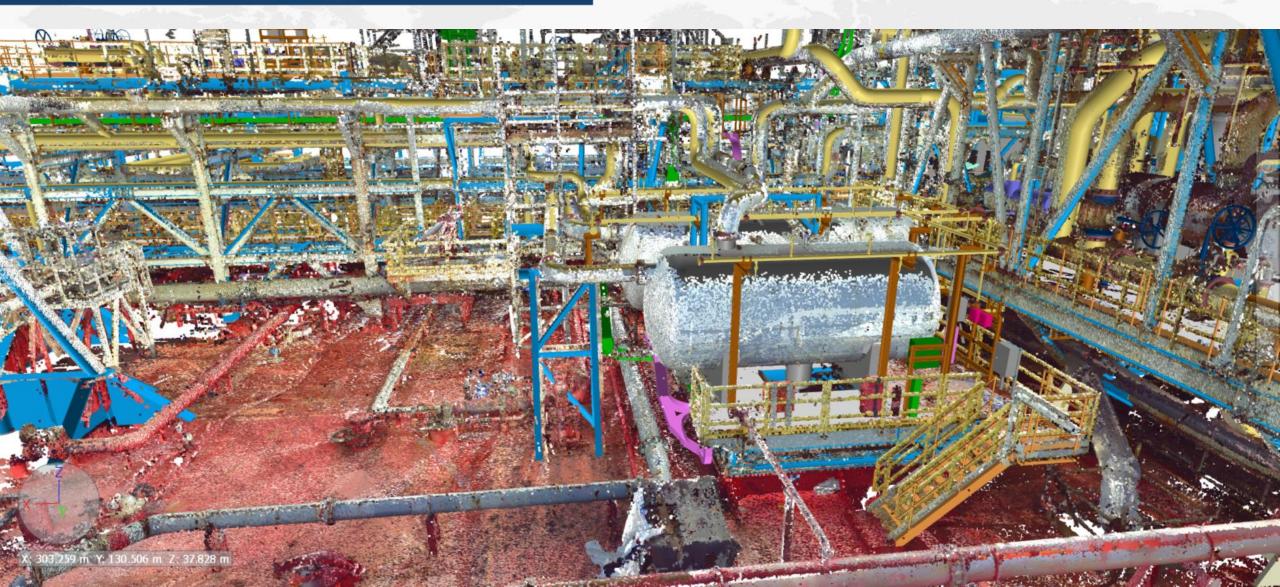






Structural - FPSO Module Design





STRUCTURAL - FPSO Module Design





Structural - FPSO Module Design











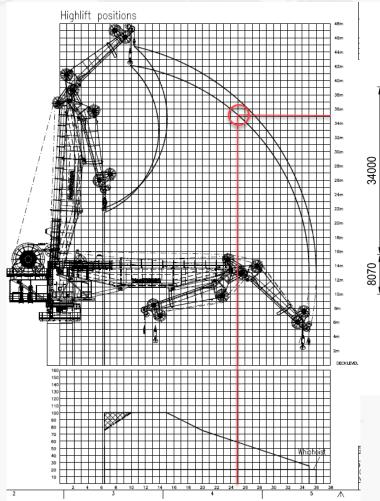


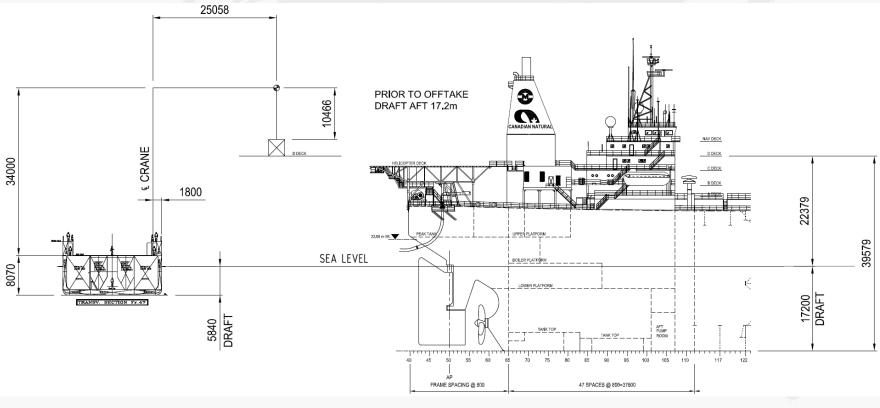


LIFTING



Lift Plans, Crane Inspections and technical analysis













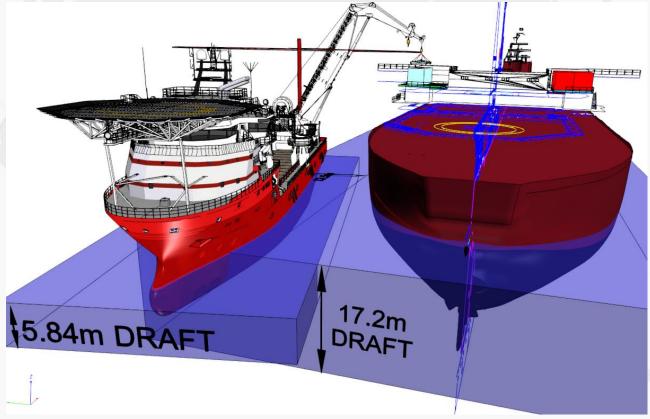


LIFTING



3D Modelling and analysis of shipping routes and lift plans











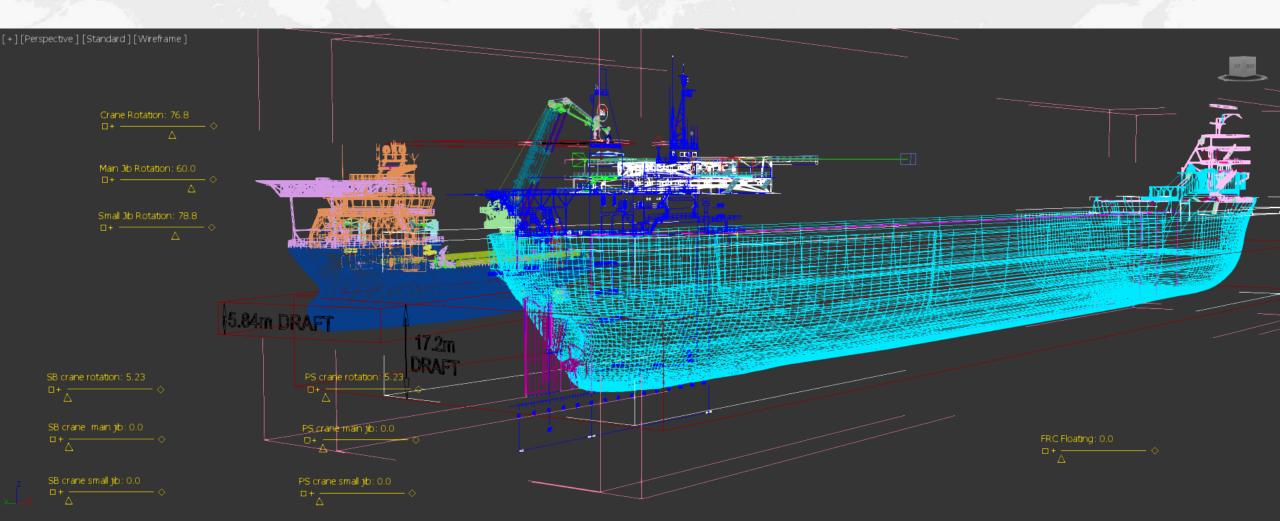




LIFTING



3D Modelling of shipping routes and lift plans





Design and installation of Several Pipeline Pig Launcher/Receivers in West Africa



12" Main Production Pig Launcher- FPSO O3D Design





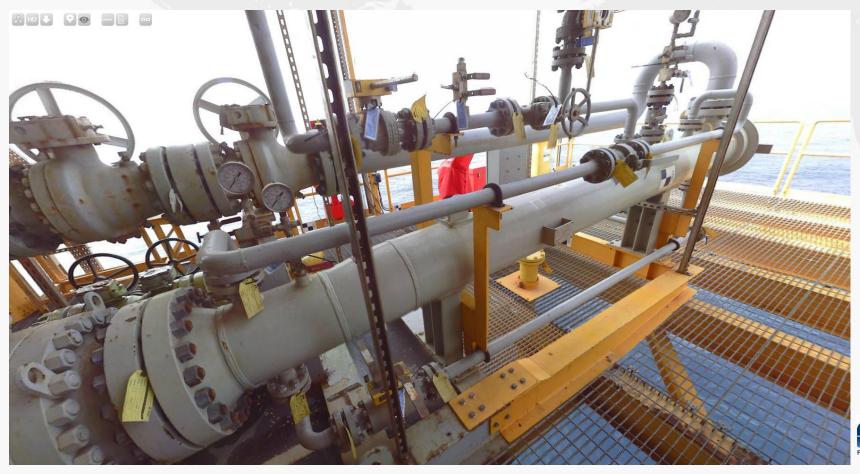








Redesign of Several Major Pipeline Pig Launcher Receivers in West Africa



10" Main Production Pig Launcher- Well **Head Tower** O3D Design













Redesign of Several Major Pipeline Pig Launcher Receivers in West Africa



10" Main Production Pig Receiver- Onshore **Gas Terminal**

O3D Design



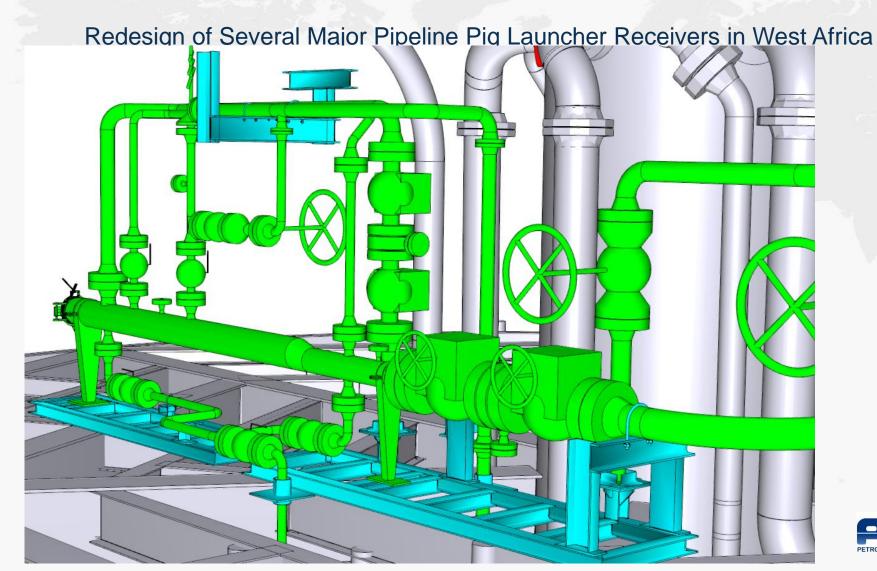












6" Gas Export Pipeline Pig Launcher- FPSO O3D Design













Redesign of Several Major Pipeline Pig Launcher Receivers in West Africa



6" Gas Export Pipeline Pig Launcher- FPSO O3D Design

























O3D have extensive pigging and pipeline design experience.

Design of multiple Pig Launcher/Receivers (PLR) for pipeline operators in West Africa, offshore and onshore.

Selection of Intelligent In-Line Inspection (ILI) Tools and Vendors

Selection of cleaning and specialised pigging tools.

Running Pigging Campaigns

Project managers have experience working on critical pipelines pigging projects for supermajors in the North Sea, North Africa and West Africa.











Resources



PPSL Group have offices, fabrication and storage facilities in Eket, which will be utilized as our Project Engineering center for executing all Exxon Mobil requirements. This facility can provide all aspects of delivering projects for MPN FMS brownfield work and skid packages of varying size. The potential for this facility is huge and we hope to see rapid growth during the coming years.

Office facilities will accommodate our Project Management team, engineers and designers. We also have the following in-house support departments, HSSE, QA/QC, Procurement, Materials Control and Logistics.

The Project Management team consists of:

- Project Manager
- Technical Manager
- Project Engineers
- Lead discipline Designers/Engineers











Qualification



O3D Nigeria Ltd

Managing Director: Brad Hale CEng MIMechE

Brad has over 30 years' experience in Oil, Gas, Military, Offshore, Operations and Nuclear engineering.

Graduating with a First-Class Degree in Mechanical Engineering from Lancaster University, he went on to work as a commissioned engineering officer in the Royal Navy and as Head of Department at a Nuclear Power station before entering the Oil and Gas Industry.

Brad is a Chartered Engineer and member of the UK Institute of Mechanical Engineers and Society of Operations Engineers.

Given his experience using modern technologies, Brad identified specific improvements to enhance efficiency within the Oil & Gas industry and has implemented these in the company.













ISO 9001 REGISTERED

This document certifies that the quality management systems of

OFFSHORE3D LTD

Admiral Court, Poynernook Road, Aberdeen, Aberdeenshire AB11 5QX

have been assessed and approved by QMS International Ltd to the following quality management systems, standards and guidelines:-

ISO 9001: 2015

The approved quality management systems apply to the following:THE PROVISION OF SITE SURVEY, DESIGN AND ENGINEERING CONSULTANCY SERVICES.

Original Approval: 11 April 2017

Current Certificate: 11 April 2017

Certificate Expiry: 10 April 2027

Certificate Number: 14134309

On behalf of QMS International Ltd

ASCB A Accreditation Bervices Workbeide

This Certificate remains valid while the holder maintains their management system in accordance with the published standard. To check the validity and status of this certificate please email certificates@qmsuk.com

This Certificate is the property of QMS International Ltd and must be returned in the event of cancellation

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Thank you