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CONSULTANCY & ENGINEERING

PROJECTS TRACK RECORD MOORING

CLIENT	PROJECT		COUNTRY	WATERDEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
NVO / MISC	KELIDAN	NVO	Korea / Brunei	1800	1. Detailed Design of Mooring system 2. Detailed design of Riser porch and subsea interface & integration		2026
STRAITSBIO-LNG	MAHARANI	STRAITS BIO	Malaysia	25 m	3. Design of LNG Barge 4. Design of Mooring System 5. Mooring system design 6. Design of flexible hose system 7. General Naval Architecture		2025
BOUSTEAD / BSES	Royal Malaysian Navy	Boustead Heavy Industries Corporation Berhad	Malaysia	25 m	1. Design of several mooring systems 2. Installation engineering for mooring 3. Installation procedures 4. Installation management		2024 / 2025
LNG EASY	MFP	LNG Easy	Malaysia	25 m	1. Design of Mooring Buoys 2. Mooring system design 3. Design of Floating Platform 4. Design of flexible hose system 5. Design of Tripod 6. General Naval Architecture		2023
YINSON	Maria de Quiteria FPSO	YINSON HOLDINGS BERHAD (259147-A)	Brazil	1,300 m	1. Supply of 7.5 km of 120 mm Offshore Chain and subsea connectors as VM Agent.		2023
YINSON	ENAUTA FPSO	YINSON HOLDINGS BERHAD (259147-A)	Brazil	1,500 m	1. Supply of 11 km of 120 mm Offshore Chain and subsea connectors as VM Agent.		2022
INDIAN NAVY / METS	Floating Dock	INDIAN NAVY	India	20 m	1. Engineering, analysis and procedures for the unmooring and relocation of the dock 2. Procedures adapted to the existing vessel spread 3. Towing of Floating dock 4. Relocation of Floating dock along the quay side 5. Offshore Construction Manager on-site for the offshore phase		2022

Offshore Installation	Supply of Chain, Connectors etc. / Equipment	Detailed Design & Engineering / FEED	Offshore renewables	Expert Witness - 3rd Party Independent Review	Decommissioning

DEEPBLUE
CONSULTANCY & ENGINEERING

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BW ENERGY / TUFF OFFSHORE	Maromba Field FPSO	BW ENERGY / TUFF	Brazil	152 m	1. Detailed mooring design, field lay-out 2. Fatigue Analysis 3. Offloading analysis 4. Specifications for mooring system and offloading systems		2022
VESTIGO / VANTAGE	MAMPU-1 FPSO Nautica-Muar FSO	VESTIGO / VANTAGE	Malaysia	75 m	1. Procedures, engineering & analysis for mooring retrieval, mooring system installation and relocation of FPSO / FSO 2. Procedures, engineering, analysis for riser retrieval & hook-up at FPSO & Platform 3. Offshore Construction Manager offshore on-site		2022
MOOREAST	Klang River Rubbish collector	Mooreast Pte Ltd	Malaysia	10 m	1. Mooring analysis of vessel 2. Analysis of floating booms 3. Review design suitability 4. Installation requirements & procedures		2021
NOC	FSO & CALM Buoy	North Oil Company	Qatar	70 m	1. FEED STUDY level 2&3 for the mooring systems and vessel conversion requirements for FSO and CALM Buoy system 2. Chain stoppers and mooring system, specifications, RFQ 3. Structural design and engineering for reinforcements on vessel 4. Naval Architecture for conversion 5. Mooring analysis 6. Fatigue analysis 7. Mooring system design		2019
SOA / HYUNDAI (HOB)	CALM Buoy	HYUNDAI HEAVY INDUSTRIES CO.,LTD.	Korea	34 m	1. Review of chain thickness report 2. Calculating and establishing the chain remain Life from a strength point of view 3. Calculating and establishing the chain remain Life from a fatigue point of view 4. Procedures for changing out chain segments 5. Approval from Class Society for the change out proposed. 6. Chain tensioning system engineering, analysis, procedures and drawings 7. Offshore installation analysis and procedures		2020

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PROJECTS TRACK RECORD MOORING

CLIENT	PROJECT		COUNTRY	WATERDEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
					8. Structural modifications design & engineering		
NOC	FSO & CALM Buoy	شركة نفط الشمال North Oil Company	Qatar	70 m	1. FEED STUDY for mooring systems options 2. Technical commercial review of solutions 3. Design of mooring system , mooring analysis		2020
NOC	FSO & CALM Buoy	شركة نفط الشمال North Oil Company	Qatar	70 m	1. FEED level 1 STUDY for the mooring systems and vessel conversion requirements 2. Chain stoppers and mooring system 3. Thruster and their requirements and analysis 4. Structural reinforcements on vessel 5. Naval Architecture for conversion		2019
AMANIAGA	CALM Buoy	AMANIAGA	Malaysia	30 m	1. Detailed Mooring Analysis, including Fatigue for CALM Buoy 2. Review of requirements for upgrade of buoy. 3. Procedures for installation		2019
MOPU HOLDINGS	Temporary Storage Tanker	MOPU HOLDINGS A Cepsa Company	Malaysia	60 m	1. Reinstatement of Mooring System 2. Complete analysis design checks and reviews for the mooring system 3. Complete Installation procedures and on-going review		2019
SOA / HYUNDAI (HOB)	CALM Buoy	HYUNDAI HEAVY INDUSTRIES CO.,LTD.	Korea	34 m	1. Hydrodynamic analysis of CALM Buoy 2. Complete Mooring analysis, design and engineering, fatigue assessment etc. 3. Riser analysis, design and engineering 4. Detailed Installation Procedures		2019
HESS EXPLORATION & PRODUCTION	FSO	HESS	Malaysia	56 m	1. DEEPBLUE was appointed as the overall Technical and Managerial consultant for the engineering of the offshore installation.		2018

DEEPBLUE CONSULTANCY & ENGINEERING

PROJECTS TRACK RECORD MOORING

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					2. Multiple DB personnel were appointed as the overall HESS Transport & Installation Management. 3. Flowline lay, mooring installation and hook-up, SAT diving etc.		
CAFHI	Jet-fuel offloading terminal	CAFHI	Singapore	15 m	1. Design and engineering of the mooring system for several size tankers for the offloading of cargo. 2. Design and engineering of the Hose and SURF system for the offloading of the cargo at the terminal.		2018
HESS EXPLORATION & PRODUCTION	Temporary Storage Tanker	HESS	Malaysia	56 m	1. Complete EPIC contract of the Temporary Storage Tanker. 2. Design of the mooring system for a Temporary Storage Tanker (TST) for condensate storage. 3. Design of the subsea flowline, riser and hose system for condensate transfer from Central Processing Platform (CPP) to the TST. 4. Design of subsea support bases and gravity systems.		
HESS EXPLORATION & PRODUCTION	Temporary Storage Tanker	HESS	Malaysia	56 m	1. Upgrading of 6-point mooring system to 8-point mooring system to increase the operability. 2. Structural modifications to install 2 chain stoppers and 1 QRH at the stern of the TST. 3. Installation engineering for the tanker, mooring and SURF. 4. Provision of all personnel for installation, management, Flowline installation management 5. EPIC of the Offshore installation of the tanker, mooring system and SURF. 6. Offshore TST changeout of 6-point moored tanker with a new 8-point moored tanker. 7. Design engineering and offshore procedures for offloading of condensate.		2017-2018
SPT OFFSHORE	Accommodation barge	SPT OFFSHORE	Netherlands / Malaysia	73 m	1. Field lay-out and mooring system design. 2. Mooring analysis and design for a construction support barge. 3. All engineering drawings for the design and installation.		2017

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PROJECTS TRACK RECORD MOORING

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LNG LINK	FSRU	LNG Link	Indonesia	4 to 10 m	1. FEED for Mooring system 2. FEED for SURF and Hose system 3. Budgets and project execution.		2017
OPTIMA ENERGY	Multi Buoy Mooring for LPG Offloading	optima energy group	Cameroon	20 m	1. Feasibility and FEED study for the mooring of LPG Offloading System 2. Preliminary costing for equipment and installation		2017
OPTIMA ENERGY	Multi Buoy Mooring for LPG Offloading	optima energy group	Nigeria	8 m	1. Feasibility and FEED study for the mooring of LPG Offloading System 2. Preliminary costing for equipment and installation		
YINSON	FPSO	YINSON HOLDINGS BERHAD (259147-A) YOUR PARTNER IN INTEGRATED OFFSHORE SERVICES	Singapore	300 m	1. Review of mooring proposals performed by others 2. Review of hydrodynamics performed by others		2017
WOODSIDE / SAPURA KENCANA	Balnaves RTM	SapuraKencana PETROLEUM	Australia	140 m	1. Detailed analysis and engineering of mooring system removal. 2. Detailed analysis and engineering of riser system removal. 3. Detailed analysis and engineering of Tower lowering from vertical to horizontal position. 4. Tow analysis and procedures of the RTM 5. Structural review of the system during offshore de-commissioning. 6. Analysis and simulation of ballasting and de-ballasting sequence offshore. 7. Offshore support engineering personnel.		2016
COASTAL ENERGY	Banang Field	COASTAL ENERGY	Malaysia	70 m	1. Engineering & Detailed design of a temporary mooring system for the tanker. 2. Detailed installation procedures, analysis and drawings. 3. MWS approval 4. Offshore Installation management and engineering execution by DEEPBLUE personnel		2016

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CONSULTANCY & ENGINEERING

PROJECTS TRACK RECORD MOORING

CLIENT	PROJECT		COUNTRY	WATERDEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
COASTAL ENERGY	Kappal Field	COASTAL ENERGY	Malaysia	70 m	1. Detailed design and engineering of removal of the mooring system. 2. Detailed de-installation procedures, analysis and drawings. 3. Offshore removal of Tanker 4. MWS approval 5. Offshore management and engineering support by DEEPBLUE personnel		2016
CAFHI	Vessel Terminal	CAFHI	Singapore	15 m	1. Mooring system design and analysis for loading vessel. 2. Mooring design and analysis for vessel along the quay side. 3. Naval Architectural review of the vessel with respect to the components and systems required for Mooring. 4. Drawings, analysis, procedures. 5. Installation procedures.		2016
MITSUI	Floating Windmill	MITSUI&CO.	Japan	70 m	1. Detailed design Naval Architectural requirements 2. Mooring and anchoring system 3. Suction piles and drag anchors design 4. Installation procedures and engineering review 5. Cost estimation for mooring system and installation		2016
UAE COMPANY	FPSO		UAE	80 m	EPIC for the following: 1. Mooring system, anchors, winches 2. Subsea, Risers and umbilical 3. Detailed design of under deck strengthening for all non-process related topsides and marine equipment 4. Design of riser & Umbilical porches, floating hose porches 5. General Naval Architecture 6. Marine systems engineering and design 7. Offshore Installation support, engineering and procedures		2015-2016
DOLPHIN DRILLING/VIKING	Mooring Analysis	DOLPHIN DRILLING	Indonesia	30 m	Detailed design and Engineering: 1. Mooring analysis of drill ship with Class / MWS approval 2. Drawings of mooring system and field layout 3. Installation specification for the mooring systems		2015

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PROJECTS TRACK RECORD MOORING

CLIENT	PROJECT		COUNTRY	WATERDEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
CONFIDENTIAL	FSO, subsea system and semi-submersible		India	60 m	Expert witness to the Arbitral Tribunal in Delhi, India for all technical matters comprising: 1. Mooring System. 2. Subsea System. 3. Offshore Installation. 4. Offshore Operations. 5. Emergency operations. 6. Analysis and simulations of System failure and vessel behaviour. 7. Preparation of Affidavits for the Arbitral Tribunal and representation in court.		2015
GLOCAL	Floating Windmill	GLOCAL JAPAN INC.	Japan	70 m	1. Detailed design Naval Architecture 2. Hydrodynamics 3. Mooring design and anchoring system 4. Suction piles and drag anchors design 5. Installation procedures and engineering review 6. Cost estimation for mooring system and installation		2015
ING – BANK	FPSO OSX-2 Decommissioning and lay-up	ING BANK	Indonesia	15 m	1. Decommissioning of the mooring system 2. Detailed mooring analysis for vessel lay-up. 3. Structural strength analysis of the FPSO and jetty bollards. 4. Offshore installation drawings. 5. Acted as owner representative.		2015
BUMI ARMADA	FSO Feasibility Studies	BUMIARMADA	Myanmar	20 m	1. Mooring analysis for spread moored system. 2. Offloading analysis of FSO and shuttle tanker. 3. Field layout and mooring drawings. 4. Comparative study of various mooring and offloading options.		2015
BC PETROLEUM	EPV Balai Mutiara	BC PETROLEUM	Malaysia	70 m	Engineering design and Consultant for the EPV Upgrade for SURF, mooring and installation: 1. Field lay-out review and development. 2. Mooring analysis, mooring fatigue, tandem analysis. 3. Riser analysis.		2014 - 2015

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PROJECTS TRACK RECORD MOORING

CLIENT	PROJECT		COUNTRY	WATERDEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
					4. Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation. 5. Specifications for mooring systems, components, vessel equipment, offloading hoses, winches and dependant structures and equipment. 6. Offshore installation analysis, procedures, methodology, requirements and specifications. 7. Review of Company produced engineering packages and detailed design. 8. Review of Company subcontractors work and proposals. 9. Marine warranty surveyor, review of 3rd party engineering.		
COBALT	Cameia	Cobalt International Energy	West Africa	2800 m	SURF, Subsea mooring and installation detailed engineering for an FPSO comprising of: 1. Field lay-out review and development. 2. Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water. 3. Mooring analysis for turret and spread-moored 4. Riser and umbilical analysis coupled analysis with mooring system, for the different options. 5. Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation. 6. Specifications for mooring systems, components, vessel equipment and dependant structures and equipment. 7. Offshore Installation analysis, procedures, methodology, requirements and specifications.		2014
FOS	KK-Field Accommodation	FOS ENERGY LLC	Malaysia	60 m	Study for an accommodation barge: 1. Field lay-out review and development of vessel positioning in proximity of platforms. 2. Mooring analysis, mooring fatigue, Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.		2014

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CONSULTANCY & ENGINEERING

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CLIENT	PROJECT		COUNTRY	WATERDEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
M3NERGY	Perintis FPSO	M3NERGY	Indonesia	30 m	Mooring and installation detailed design & engineering: 1. Detailed Mooring analysis for vessel lay-up. 2. Specifications of mooring system. 3. Offshore Installation requirements.		2014
COASTAL ENERGY	Banang Field	COASTAL ENERGY	Malaysia	70 m	Mooring and Offshore installation detailed engineering and design and execution: 1. Detailed design and engineering of mooring system. 2. Detailed design and engineering of Side by Side offloading, simulation of SBS. 3. Detailed installation procedures, analysis and drawings. 4. Offshore Installation 5. Offshore management and engineering support by DEEPBLUE personnel		2014
NAE – BUMI ARMADA	ETAN FPSO	BUMIARMADA	Nigeria	1800 m	FEED study for an FPSO comprising of: 1. Field lay-out review and development. 2. Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water. 3. Preliminary riser and umbilical analysis coupled analysis with mooring system. 4. Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation. 5. Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.		2014
PETROBRAS – BUMI ARMADA	LIBRA FPSO	PETROBRAS BUMIARMADA	Brazil	2400 m	FEED study for an FPSO comprising of: 1. Field lay-out review and development. 2. Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water. 3. Riser and umbilical analysis coupled analysis with mooring system. 4. Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation. 5. Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.		2014

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CONSULTANCY & ENGINEERING

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CLIENT	PROJECT		COUNTRY	WATERDEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
M3NERGY	Perintis FPSO	M3NERGY	Malaysia	20 m	1. Detailed Mooring analysis for vessel lay-up. 2. Specifications of mooring system. 3. Offshore Installation requirements.		2014
PTTEP	Bongkot	PTTEP	Thailand	70 m	1. Review of chain thickness report 2. Calculating and establishing the chain remain Life from a strength point of view 3. Calculating and establishing the chain remain Life from a fatigue point of view 4. Procedures for changing out chain segments 5. Approval from Class Society for the change out proposed.		2014
ENI – BUMI ARMADA	OCTP FPSO	BUMIARMADA	Ghana	900 m	1. Field lay-out review and development. 2. Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water. 3. Preliminary riser and umbilical analysis coupled analysis with mooring system. 4. Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation. 5. Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.		2013 - 2014
TULLOW	KUDU FPU	TULLOW OIL plc	Namibia	160 m	1. Field lay-out review and development. 2. Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water. 3. Preliminary riser and umbilical analysis coupled analysis with mooring system. 4. Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation. 5. Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.		2013

DEEPBLUE
CONSULTANCY & ENGINEERING

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COASTAL ENERGY	Storage Tanker for Kapal Field	COASTAL ENERGY	Malaysia	70 m	1. Detailed design and engineering of mooring system. 2. Detailed design and engineering of Side-by-Side offloading, simulation of SBS.		2013
PETRONAS – TECHNIP	Bukit Tua FPSO	PETRONAS TMH Technip MHB Hull Engineering	Indonesia	70 m	1. Supply of mooring and riser engineering personnel. 2. Mooring analysis, mooring fatigue analysis. 3. Riser analysis, riser design. 4. Design and engineering of mooring and riser systems on board the FPSO. 5. Design and engineering of Marine systems. 6. Design and engineering of the offshore installation for mooring and risers. 7. Preparation of Detailed Specifications for all mooring, risers, subsea and marine systems.		2012 - 2013
LUNDIN – BUREAU VERITAS	IKDAM FPSO	BUREAU VERITAS 1828	Malaysia	70 m	1. Mooring analysis. 2. Field lay-out options review. 3. HSE and operational analysis of the concepts. 4. Commercial and Technical review of the concepts.		2012
SSP OFFSHORE	SSP Floater & SCR's	SSP Offshore Inc.	USA	500 m	1. Hydrodynamic analysis of SPAR & Floater 2. SCR analysis for SPAR & Floater		2012
BMT ASIA PACIFIC	LNG Terminal	BMT Asia Pacific	PNG	50 m	1. Hydrodynamic analysis of CALM buoy & riser. 2. Preliminary analysis of CALM system with risers and moorings and vessel.		2012
ONGC	D-1 FPSO	ओएनजीसी ONGC	India	150 m	1. Riser systems and subsea. 2. Mooring system, offshore installation. 3. Naval architecture, hull, vessel, structural systems. 4. All marines' systems on board the FPSO, marine engineering.		2011 - 2012

DEEPBLUE
CONSULTANCY & ENGINEERING

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COASTAL ENERGY	Songkhla	COASTAL ENERGY	Thailand	20 m	1. Field lay-out, mooring design and analysis, SURF design and analysis, offshore installation. 2. Hydrodynamic analysis of vessels 3. Continuous EPIC support for the for the different. Songkhla FSOs.		2011 – 2012
KEI – TJS	Sepanjang FSO	Kangean Energy Indonesia	Indonesia	45 m	1. Design and engineer of mooring system and riser system for the FSO. 2. Offshore installation engineering and provision of support personnel for the offshore phase.		2010 - 2011
ONGC-DPS	D-1 FPSO	ओएनजीसी ONGC	India	150 m	1. Mooring systems, riser systems, subsea components, offshore installation. 2. FSO structural, marine and naval architectural requirements. 3. Preparation of technical specification and RFQs for the above in order to issue for BID to EPIC Contractor.		2010
CHEVRON – EDG	FSO Vietnam Block B Gas Project FEED Study	Chevron	Vietnam	150 m	1. Mooring systems, riser systems, subsea components, offshore installation. 2. FSO structural, marine and naval architectural requirements. 3. All marine systems, IG, cargo, ballast, HVAC, LQ, ER, electrical, mechanical etc. 4. Preparation of technical specification and RFQs for the above in order to issue for BID to EPIC Contractor.		2010
ONGC – DPS	D-1 FPSO FEED Study	ओएनजीसी ONGC	India	150 m	1. Mooring systems, riser systems, subsea components, field lay-out. 2. FSO structural, marine and naval architectural requirements. 3. Preliminary installation method statements. 4. Preparation of Technical Specification and RFQs for the above in order to issue for BID to EPIC Contractor.		2010

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CONSULTANCY & ENGINEERING

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PETROFAC – DPS	FPSO FEED Study Cendor II	Petrofac	Malaysia	80 m	1. Mooring systems, Riser Systems, Subsea components 2. FSO structural, marine and Naval Architectural requirements 3. All Marine systems, IG, Cargo, ballast, HVAC, LQ, ER, Electrical, mechanical etc. 4. Preparation of Technical Specification and RFQs for the above in order to issue for BID to EPIC Contractor.		2009 – 2010
COASTAL ENERGY	Songkhla FSO	COASTAL ENERGY	Thailand	20 m	1. Design of new and review of existing system with respect to mooring, risers, offshore and subsea arrangement. 2. Mooring analysis and design. 3. Offloading analysis and design. 4. Riser analysis and design. 5. Hose analysis and design. 6. Vessel mooring requirements and Installation requirements.		2009 – 2010
GALOC PETROLEUM COMPANY	FPSO	GPC Galoc Production Company	Philippines	600 m	1. Mooring system, 2. Riser and SURF 3. Offshore Installation		2009 – 2010
MISTUBISHI OIL	Sepanjang FSO	MITSUBISHI	Indonesia	45 m	Review on behalf of Client the detailed design of mooring and risers, review of subcontractors.		2009
KANGEAN ENERGY INDONESIA	Temporary Sepanjang FSO	Kangean Energy Indonesia	Indonesia	45 m	Design, delivery and installation of mooring system and support during operational phase.		2009
QATAR PETROLEUM	BH & MM Field	Qatar Petroleum	Qatar	0 – 50 m	Feasibility study for the change out of umbilicals for 60+ platforms.		2009
QATAR PETROLEUM	Halul Field	Qatar Petroleum	Qatar	0 – 50 m	Hydrodynamic engineering for electric cable.		2009

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CONSULTANCY & ENGINEERING

PROJECTS TRACK RECORD MOORING

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HALLIN MARINE	SPEX – Malaysia	Hallin	Philippines	500 m	Naval architectural support to the implementation of a hydraulic gangway on DP-2 vessel for offshore operations.		2009
PROSAFE PRODUCTIONS	POLVO FPSO	Prosafe Production	Brazil	800 m	Offloading mooring analysis for moored FPSO POLVO.		2008
PROSAFE PRODUCTIONS	ABO FPSO	Prosafe Production	Nigeria	600 m	Mooring analysis for the extension of the riser system and its installation.		2008
LARSEN OIL & GAS	FPSO X	LARSEN OIL & GAS	Singapore	200 m	Design responsibility for field lay-out riser configuration, subsea systems, mooring systems, and offshore works.		2008