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CONSULTANCY & ENGINEERING

TRACK RECORD OFFSHORE INSTALLATION

CLIENT	PROJECT	CLENT	EQUIPMENT / VESSEL	COUNTRY	WATER DEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
MC CONNEL DOWELL	SWIH	McCONNELL DOWELL	Subsea water Injection Ubit	Australia	22m	1. Dynamic simulation of lowering of a load onto the seabed. 2. Lifting analysis from Installation vessel.		2026
MOOREAST	BSRC	MOOREAST	Anchors / chains / buoys VLCC	Thailand	20 m	1. Design & Engineering of installation procedures. 2. Full Offshore installation engineering, drawings, analysis. 3. Offshore Construction Management and Offshore Execution of the installation		2025
BHIC	MRDF	Boustead Heavy Industries Corporation Berhad	Deperming station	Malaysia	25 m	1. Design & Engineering of installation requirements 2. Full Offshore installation engineering, drawings, procedures. 3. Naval architecture, Stability of vessels 1. Mooring system design		2025
Bhagwan Marine Limited	ROV ANALSYIS	BHAGWAN marine	ROV	Australia	75 m	1. Analysis and simulation of the ROV Launch for different environmental conditions.		2024
NOVA-X	G1 FSO CALM BUOY	NOVA X	Anchors / chains / CALM Buoy	Thailand	60 m	1. Analysis of the riser system Installation onto the CALM Buoy 2. Detailed drawings of the riser system installation 3. Technical support for Offshore Installation 4. Technical support for the riser design 5. Design & Review of engineering documents and Procedures		2024
PTSC	Benchamas-2	PETROVIETNAM PTSC	Anchors / chains / Aframax	Thailand	70 m	1. Offshore Installation Analysis and Procedures		2024
BOUSTEAD / BSES	Royal Malaysian Navy	Boustead Heavy Industries Corporation Berhad	Deperming station	Malaysia	25 m	1. Design of subsea component 2. Offshore installation procedures 3. Offshore Installation design and calculation 4. Structural design of support & lifting frames 5. Technical Management of the project 6. Supply of manpower for offshore installation		2023 - 2024

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

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BOSKALIS	FPSO Armada Sterling V	Boskalis	Offshore Installation vessel	India	400 m	1. Design of Offshore installation hang off platform and incorporation into the Installation vessel for the subsea flexibles' installation.		2022
INDIAN NAVY / METS	Floating Dock	INDIAN NAVY	Floating Dry dock	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
VESTIGO / VANTAGE	MAMPU-1 FPSO Nautica-Muar FSO	VESTIGO Investigate, Seek, Explore VANTAGE ENERGY GROUP	Anchors / chains / Flexibles Aframax x 2	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
ARAMCO / KAVIN ENGINEERING	Marjan Field	aramco KAVIN™	Subsea Power Cable	Saudi Arabia	55 m	1. Detailed design of 3.4 km, 15 kV Subsea Power Cable with fibre optic and ancillary equipment, between two existing platform 2. On-bottom stability, On-bottom walking assessment 3. Route assessment and final route design 4. Installation engineering, analysis, procedures & requirements 5. Bend stiffeners, J-tube, protection 6. Specifications for the cable and its equipment		2021 / 2022
ECA VANTAGE BSES	Subsea Equipment	ECA GROUP	Deperming station	Malaysia	25 m	1. Design of installation frames (100 MTon) 2. Engineering, design, analysis of subsea installation 3. Engineering design and analysis of subsea cable installation (10 km)		2021 / 2022

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MOOREAST	Klang River Rubbish collector	Mooreast Pte Ltd	Anchors / chains / buoys	Malaysia	10 m	1. Mooring analysis of vessel 2. Analysis of floating booms 3. Review design suitability 4. Installation requirements & procedures		2021
SAIPEM	Barges	SAIPEM	Barge	Thailand	20 m	1. Engineering support for offshore installation 2. Engineering, procedures, drawings, analysis		2020
JAMES FISCHER / KRIS ENERGY	Apsara Field	James Fisher and Sons plc Marine Services Worldwide	Subsea Risers and Power cable	Cambodia	80 m	1. Supply of Offshore construction Manager and project engineer for offshore installation 2. Design of riser and power cable hang-off balcony at the platform. 3. Offshore installation of risers and Power cable 4. OCM & Engineers for the installation		2020
LNG EASY	MFP	LNG Easy	Anchors / chains / Barge FSRU 100k m^3	Myanmar	10 m	1. Mooring & SURF Installation, hook-up, and commissioning engineering of an LNG Floating platform for the connection with an LNG Tanker as FSU 2. Installation and commissioning Management 3. Installation and commissioning manager of the MFP		2020
SOA / HYUNDAI (HOB)	CALM Buoy	HYUNDAI HEAVY INDUSTRIES CO.,LTD.	Anchors / chains / CALM BUOY	Korea	34 m	Review of life remaining in mooring chain. 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 8. Structural modifications design & engineering		2020

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AMANIAGA	CALM Buoy	AMANIAGA	Anchors / chains / CALM Buoy	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
AMANIAGA	CALM Buoy	AMANIAGA	Anchors / chains / CALM Buoy	Malaysia	30 m	1. Inspection of CALM Buoy prior to removal 2. Engineering, stability, and dynamic analysis for Calm Buoy removal and Tow out. 3. Decommissioning procedures 4. Support personnel for the preparation of the Tow out 5. Tow-out and delivery to quay side.		2019
MOPU HOLDINGS	Temporary Storage Tanker	MOPU HOLDINGS A Cepsa Company	Anchors / chains / Aframax	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
HESS EXPLORATION & PRODUCTION	FSO	HESS	Anchors / chains / Riser Aframax	Malaysia	56 m	1. DEEPBLUE was appointed as the overall Technical and Managerial consultant for the engineering of the offshore installation. 2. Multiple DB personnel were appointed as the overall HESS Transport & Installation Management, in order to manage the different subcontractors from a technical and managerial point of view onshore and during the offshore campaign for the FSO, mooring and SURF Installation. 3. Including flowline lay, mooring installation and hook-up, SAT diving etc.		2018
HESS EXPLORATION & PRODUCTION	Temporary Storage Tanker	HESS	Anchors / chains / Riser Aframax	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.		

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HESS EXPLORATION & PRODUCTION	Temporary Storage Tanker	HESS	Anchors / chains / Riser Aframax	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
JMUS	Floating Dock Installation	JMU	Floating Dock	India	25 m	1. Installation engineering and procedures for mooring installation and hook up. 2. Offshore installation of the mooring system. 3. Offshore Personnel support during the installation.		2017
ARDENT GLOBAL	Containership Salvage	GLOBAL LOGISTICS	Container ship	New Caledonia	5 m	1. Hydrodynamic analysis for the crane barge for the salvage of the grounded container ship. 2. Motion and acceleration analysis for the crane barge		2017
AMANIAGA	Offshore Installation	AMANIAGA	Aframax	Malaysia	70 m	1. Design of installation aids 2. Structural FEA analysis and incorporation into vessel 3. Full design drawings		2017
SPT OFFSHORE	Accommodation barge	SPT OFFSHORE	Anchors / chains / Barge	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
ECA (FRANCE)	Subsea Design	ECA GROUP	Deperming station	Malaysia	20 m	1. Design and engineering of subsea support system, 2. Installation engineering and design of subsea templates. 3. Procedures for Offshore installation of subsea templates. 4. Offshore management and engineering support by DEEPBLUE personnel.		2017

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ANGLO EASTERN SHIPMANAGEMENT	Gas Concord	ANGLO-EASTERN	Anchors / chains / Riser FLNG	Singapore	120 m	1. Decommissioning Support to Client at shipyard of an LPG Carrier. 2. Perform stability review of the vessel. 3. Perform lightship measurement and calculations. 4. Obtain stability sail away approval from BV.		2017
TUFF	FPSO	TUFF	Anchors / chains / Riser Suezmax	UAE	80 m	1. OCM for the offshore mooring & SURF Installation, FPSO Hook-up. 2. Engineering and design of Offshore mooring, SURF installation & Hook-up. 3. Additional DEEPBLUE engineering personnel during Offshore installation.		2016-2017
WOODSIDE / SAPURA KENCANA	Balnaves RTM	SapuraKencana PETROLEUM	Anchors / chains / Riser Suezmax	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 off-shore 7. Offshore support engineering personnel		2016
COASTAL ENERGY	Banang Field	COASTAL ENERGY	Anchors / chains Aframax	Malaysia	70 m	1. Engineering & Detailed design of a temporary mooring system for the tanker 2. Detailed installation procedures, analysis MWS approval 3. Offshore Installation management and engineering execution by DEEPBLUE personnel		2016
COASTAL ENERGY	Kappal Field	COASTAL ENERGY	Anchors / chains Aframax	Malaysia	70 m	1. Detailed design and engineering of removal of the mooring system. Detailed de-installation procedures, analysis and drawings 2. Offshore removal of Tanker / MWS approval 3. Offshore management and engineering by DEEPBLUE.		2016

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EXON MOBILE / MOOREAST	Mooring system Installation	ExxonMobil MOOREAST	Anchors / chains / buoys / VLCC	PNG	15 m	1. Detailed design and engineering of mooring system installation. 2. Sea-fastening of all equipment. 3. Detailed installation procedures, analysis and drawings. 4. HAZID – SIMOPS. 5. Offshore management and engineering support by DEEPBLUE personnel		2016
EXON MOBILE / MOOREAST	Mooring system decommissioning	ExxonMobil MOOREAST	Anchors / chains / buoys / VLCC	PNG	15 m	1. Detailed design and engineering of mooring system decommissioning 2. Sea-fastening of all equipment 3. Detailed decommissioning procedures, analysis and drawings 4. HAZID – SIMOPS 5. Offshore Support personnel		2016
ECA (FRANCE)	Jacket	ECA GROUP	Deperming station	Malaysia	20 m	1. FEED Design and Engineering of Jacket 2. Structural design and Jacket in place stress analysis 3. Geotechnical design for jacket stability and strength		2016
TUFF	FPSO	TUFF	Anchors / chains / riser / umbilical / VLCC	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

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ING – BANK	FPSO OSX-2 Decommissioning and lay-up	ING BANK	Anchors / chains / VLCC	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
COBALT /	Cameia	Cobalt International Energy BUMIARMADA	Anchors / chains / Risers / VLCC	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 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	Anchors / chains / Aframax	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
M3NERGY	Perintis FPSO	M3NERGY	Anchors / chains / Aframax	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

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COASTAL ENERGY	Banang Field	COASTAL ENERGY	Anchors / chains Aframax	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
M3NERGY	Perintis FPSO	M3NERGY	Anchors / chains Aframax	Malaysia	20 m	1. Detailed Mooring analysis for vessel lay-up 2. Specifications of mooring system 3. Offshore Installation requirements		2014
BUMI ARMADA	Cluster 7 FPSO	BUMIARMADA	Anchors / chains Suezmax	India	150 m	1. Technical consultant for the Offshore Installation of the C7-FPSO 2. Providing management resources, Offshore Construction Manager, Technical support, Client representative, Marine Warranty Surveyor 3. Offshore management and engineering support by DEEPBLUE personnel		2014
PTTEP	FSO-2	PTTEP	Anchors / chains Aframax	Thailand	80 m	1. Technical support to PTTEP with the change out of existing risers. 2. Offshore Installation support personnel. 3. Review of Installation Company procedures and engineering. 4. Offshore management and engineering support by DEEPBLUE personnel		2013
COASTAL ENERGY	Storage Tanker for Kapal Field	COASTAL ENERGY	Anchors / chains Aframax	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

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WOODSIDE / APACHE	Balnaves	woodside / Apache	Anchors / chains Suezmax	Australia	135 m	1. Design and engineering and simulation of Hydrodynamic behaviour of the RTM tower 2. Simulation and analysis of RTM tower during tow, and installation. 3. Design and simulation of the different mooring lines during installation, connection and operations 4. Design and simulation of the different flexible risers during installation, connection and operations		2012 - 2013
PTTEP	FSO-3	PTTEP	Anchors / chains Aframax	Thailand	70 m	1. Feasibility study and pre-FEED for the development of a new FSO and integration with the existing field architecture. 2. Mooring analysis and requirements for FSO, CALM buoy 3. Flexible riser analysis		2012
BUMI ARMADA NAVIGATION	UDANG Installation	BUMIARMADA	Anchors / chains Aframax	Indonesia	150	1. Mooring system installation 2. FPSO hook-up 3. Riser installation 4. Installation commissioning 5. Offshore management and engineering support by DEEPBLUE personnel		2012
COASTAL ENERGY	Songkhla FSO	COASTAL ENERGY	Anchors / chains Aframax	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	Anchors / chains Aframax	Philippines	600 m	1. Mooring system, 2. Riser and SURF 3. Offshore Installation		2009 – 2010

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KANGEAN ENERGY INDONESIA	Temporary Sepanjang FSO	Kangean Energy Indonesia	Anchors / chains Coastal Tanker	Indonesia	45 m	1. Design, delivery and installation of mooring system and support during operational phase		2009
LARSEN OIL & GAS	FPSO X	LARSEN OIL & GAS	Suezmax	Singapore	200 m	1. Design responsibility for field lay-out riser configuration, subsea systems, mooring systems, and offshore works		2008
MODEC - JVPC	Turret FSO, Subsea Equipment	MODEC	Anchors / chains Aframax	Vietnam	60 m	1. Offshore installation for detailed engineering & design FSO hook-up, PLEM, riser installation. Preparation of all procedures of the offshore installation		2007 – 2008