DEEPBLUE
CONSULTANCY & ENGINEERING

TRACK RECORD POWER CABLES & UMBILICAL

CLIENT	PROJECT		COUNTRY	WATERDEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
BOUSTEAD / BSES	Royal Malaysian Navy	Boustead Heavy Industries Corporation Berhad	Malaysia	25 m	EPIC for 1. Design of subsea component 2. Offshore installation procedures 3. Offshore Installation design and calculation 4. Installation of power cables from offshore to shore station 5. Structural design of support & lifting frames 6. Technical Management of the project 7. Supply of manpower for offshore installation		2023 - 2026
VESTIGO / VANTAGE	MAMPU-1 FPSO Nautica-Muar FSO	VESTIGO Investigate, Seek, Explore VANTAGE ENERGY GROUP	Malaysia	75 m	Offshore decomission9ng and re-installation of 1. Procedures, engineering & analysis for mooring retrieval, mooring system installation and relocation of FPSO / FSO 2. Procedures, engineering, analysis for riser, Power Cable retrieval & hook-up at FPSO & Platform 3. Offshore Construction Manager offshore on-site		2022
ARAMCO / KAVIN ENGINEERING	Marjan Field	aramco	Saudi Arabia	55 m	EPI for the following: 1. Subsea Power Cable, detailed design of 3.4 km, 15 kV, 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
TUFF	FPSO	TUFF	UAE	80 m	Offshore Installation of 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

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TUFF	FPSO	TUFF	UAE	80 m	EPIC for the following: 1. Mooring system, anchors, winches 2. Power Cable and Umbilical design & analysis 3. Subsea & Riser design & analysis 4. Detailed design of under deck strengthening for all non-process related topsides and marine equipment 5. Design of riser & Umbilical porches, floating hose porches 6. General Naval Architecture 7. Marine systems engineering and design 8. Offshore Installation support, engineering and procedures		2015-2016
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, Power Cable analysis 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		2014 - 2015

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COBALT /	CAMEIA	Cobalt International Energy BUMIARMADA	West Africa	2800 m	SURF, Subsea mooring and installation FEED 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, power cable 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
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	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		2014

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		BUMIARMADA			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		
ENI – BUMI ARMADA	OCTP FPSO	BUMIARMADA	Ghana	900 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		2013 - 2014
TULLOW - BUMI ARMADA	KUDU FPU	TULLOW OIL plc	Namibia	160 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		2013
PETRONAS – TECHNIP	Bukit Tua FPSO	PETRONAS	Indonesia	70 m	Detailed design for an FPSO comprising of 1. Riser, Umbilical & Power Cable analysis & design 2. Supply of mooring and riser engineering personnel 3. Mooring analysis, mooring fatigue analysis		2012 - 2013

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		TMH Technip MHB Hull Engineering			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		
PTTEP	FSO-3	PTTEP	Thailand	70 m	FEED study for an FPSO comprising of 1. 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 & Umbilical analysis		2012
BUMI ARMADA NAVIGATION	UDANG Installation	BUMIARMADA	Indonesia	150	Detailed design for 1. Mooring system installation 2. FPSO hook-up 3. Riser & Power Cable / Umbilical installation 4. Installation commissioning 5. Offshore management and engineering support by DEEPBLUE personnel		2012
ONGC	D-1 FPSO	ओएनजीसी ONGC	India	150 m	Technical Lead group for an FPSO comprising of 1. Riser systems and subsea Power Cable 2. Mooring system, offshore installation 3. Naval architecture, hull, vessel, structural systems 4. All marines' systems on board the FPSO, marine engineering		2011 - 2012
ONGC-DPS	D-1 FPSO	ओएनजीसी ONGC	India	150 m	Technical Lead group for an FPSO comprising of 1. Mooring systems, riser systems, power cable 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

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CHEVRON – EDG	FSO Vietnam Block B Gas Project FEED Study	Chevron	Vietnam	150 m	FEED study for an FSO comprising of 1. Mooring systems, riser systems, power cable, subsea components, offshore installation 2. FSO structural, marine and naval architectural requirements. 3. All marine systems, IG, cargo, ballast, HVAC, LQ, ER, electrical, mechanical et 4. Preparation of technical specification and RFQs for the above in order to issue for BID to EPIC Contractor		2010
PETROFAC – DPS	FPSO FEED Study Cendor II	Petrofac	Malaysia	80 m	FEED study for an FPSO comprising of 1. Mooring systems, Riser Systems, Umbilical, 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
GALOC PETROLEUM COMPANY	FPSO	GPC Galoc Production Company	Philippines	600 m	Technical Lead on behalf of oil company for an FPSO comprising of 1. Mooring system, 2. Riser, power cable and SURF 3. Offshore Installation		2009 – 2010
QATAR PETROLEUM	BH & MM Field	Qatar Petroleum	Qatar	0 – 50 m	FEED study for 1. Change out of umbilicals for 60+ platforms		2009
QATAR PETROLEUM	Halul Field	Qatar Petroleum	Qatar	0 – 50 m	1. Hydrodynamic engineering for electric power cable		2009
LARSEN OIL & GAS	FPSO X	LARSEN OIL & GAS	Singapore	200 m	Detailed design for 1. field lay-out 2. Flexible riser system 3. Subsea systems 4. Power cable & umbilical 5. Mooring systems 6. Offshore works		2008