

## PROJECTS TRACK RECORD (AFRICA)

CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
Lloyds Register	CORAL FLNG	Mozambique	LR	2,000 m	<ol style="list-style-type: none"> <li>1. Preparation of documentation for the operation of the FLNG</li> <li>2. HAZID &amp; Document review</li> </ol>		2022
EPCM ENGINEERS LIMITED	Barge	Nigeria	ABS	70 m	<ol style="list-style-type: none"> <li>1. Design review and FEA analysis of flare structure and flare bridge</li> <li>2. Pile design &amp; review</li> <li>3. Mooring system review</li> </ol>		2022
Optima Energy	Multi Buoy Mooring for LPG Offloading	Cameroon	-	20 m	<ol style="list-style-type: none"> <li>1. Feasibility and FEED study for the mooring of LPG Offloading System</li> <li>2. Preliminary costing for equipment and installation</li> </ol>		2017
Optima Energy	Multi Buoy Mooring for LPG Offloading	Nigeria	-	8 m	<ol style="list-style-type: none"> <li>1. Feasibility and FEED study for the mooring of LPG Offloading System</li> <li>2. Preliminary costing for equipment and installation</li> </ol>		2017

## PROJECTS TRACK RECORD (AFRICA)

CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
COBALT	Cameia	West Africa	ABS	2800 m	<p>SURF, Subsea mooring and installation detailed engineering for an FPSO comprising of:</p> <ol style="list-style-type: none"> <li>1. Field lay-out review and development.</li> <li>2. Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water.</li> <li>3. Mooring analysis for turret and spread-moored</li> <li>4. Riser and umbilical analysis, coupled analysis with mooring system, for the different options.</li> <li>5. Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation.</li> <li>6. Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.</li> <li>7. Offshore Installation analysis, procedures, methodology, requirements and specifications.</li> </ol>		2014
NAE – Bumi Armada	ETAN FPSO	Nigeria	ABS	1800 m	<p>FEED study for an FPSO comprising of:</p> <ol style="list-style-type: none"> <li>1. Field lay-out review and development.</li> <li>2. Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water.</li> <li>3. Preliminary riser and umbilical analysis, coupled analysis with mooring system.</li> <li>4. Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation.</li> <li>5. Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.</li> </ol>		2014

## PROJECTS TRACK RECORD (AFRICA)

CLIENT	PROJECT	COUNTRY	CLASS SOCIETY	WATERDEPTH	DESCRIPTION OF PROJECT	TYPE	YEAR
ENI – Bumi Armada	OCTP FPSO	Ghana	ABS	900 m	FEED study for an FPSO comprising: <ol style="list-style-type: none"> <li>1. Field lay-out review and development.</li> <li>2. Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water.</li> <li>3. Preliminary riser and umbilical analysis, coupled analysis with mooring system.</li> <li>4. Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation.</li> <li>5. Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.</li> </ol>		2013 - 2014
Tullow	KUDU FPU	Namibia	DNV	160 m	FEED study for an FPU comprising: <ol style="list-style-type: none"> <li>1. Field lay-out review and development.</li> <li>2. Mooring analysis, mooring fatigue, tandem analysis, use of synthetic moorings for deep water.</li> <li>3. Preliminary riser and umbilical analysis, coupled analysis with mooring system.</li> <li>4. Design and engineering of vessel structural modifications requirements for mooring, risers, and the offshore installation.</li> <li>5. Specifications for mooring systems, components, vessel equipment and dependant structures and equipment.</li> </ol>		2013
Prosafe Productions	ABO FPSO	Nigeria	ABS	600 m	Mooring analysis for the extension of the riser system and its installation.		2008