2016 - 2019 (On going)

Vessel Name: **UniMopu**  
Vessel type: production jack-up

**Our scope of work:**
- Conceptual & basic design of the self-Installing Platform (SIP).
- **Main scope:** Preparation of a complete technical package and manage tender to shipyards for construction of platform and integration of top sides.
- **Additional scope:** Consultancy mission in PNG at the field site, onboard drilling jackup. Collect site information - geotechnical & operational - in view of SIP installation.

2018-2019

Vessel Name: **Sapura T17 & generic DES**  
Vessel type: Tender assist drilling barge

**Our scope of work:**
- Conceptual studies for DES weight reduction.  
  Target weight reduction: 100 MT.
2018

Project: **Ultra Shallow Draft MODU**
Vessel type: Ultra shallow draft jack-ups & Submersible units

*Our scope of work:*
Evaluation of several MODU concepts potentially suitable for operation in this field and with a main focus on reducing transit draft to the greatest possible extent.

2016 - 2017

Vessel Name: **KAOMBO**
Vessel type: FPSO
Shipyard: GPC Abu Dhabi & Sembawang Shipyard

*Our scope of work:*
Scope #1:
Engineering consultancy (Naval architecture / Structural engineering) for turret loadout operation.

Scope #2:
Engineering consultancy Structural design verification – FPSO hulls, topsides structures, turret, mooring & weight control.
2015

Vessel Name: **MPJ 328 Buffalo Class**
Vessel type: Multi-purpose self propelled self-elevating unit (Liftboat)

**Our scope of work:**

“in House” Basic Design Package (Global strength, leg design, main scantling stability, general arrangement, accommodations)

---

2015

Vessel Name: **Triumph 109**
Vessel type: Tender assist drilling barge

**Our scope of work:**

Engineering services: Stability and lifting analysis for DES rig up.
## 2014 / 2015

**Vessel Name:** **TD7000**  
**Vessel type:** Ultra deepwater compact drillship – New Build

<table>
<thead>
<tr>
<th>Our scope of work:</th>
<th><img src="image1.png" alt="Image" /></th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete “in House” Basic Design Package (Structure, stability, hydrodynamics, general arrangement, accommodations, drilling systems)</td>
<td></td>
</tr>
<tr>
<td>Development of constructions specification.</td>
<td></td>
</tr>
<tr>
<td>Enquiries for main equipment. Cost analysis.</td>
<td></td>
</tr>
</tbody>
</table>

## 2014

**Vessel Name:** **ICHTHYS - FPSO**  
**Vessel type:** FPSO  
**Shipyards:** Keppel Shipyards

<table>
<thead>
<tr>
<th>Our scope of work:</th>
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<tr>
<td>LOWER TURRET SKIDDING OPERATION</td>
</tr>
<tr>
<td>Engineering consultancy for loadout operation (Naval architecture / Structural engineering)</td>
</tr>
</tbody>
</table>
2013 / 2015  Customer: Mena Offshore Investments Ltd

Vessel Name: **Explorer I**
Vessel type: Jack-Up Drilling Rig (LeTourneau Super 116E)
Shipyard: YZJ Offshore (Shanghai)

**Our scope of work:**

Review and adjustments to Construction Specifications before signature with builder.

Owner Representative & technical adviser during engineering and procurement phase. Multi-disciplinary team provided:

- Rearrangement of hull tanks
- Conceptual arrangements of shaker house, drill floor, cantilever, helideck, living quarters, Mud mix room and other various areas.
- Assist / advise Builder for design of all rig systems (piping, HVAC, electrical)
- Assist Builder for drilling equipment selection.
- Review and approval of all purchased equipment.
- Review and approval of all detail design drawings.

2012  Customer: GSP Offshore- Grup Servicii Petroliere

Vessel Name: **GSP Venus**
Vessel type: Ultra Deepwater Drillship – New Build
Shipyard: TBD

**Our scope of work:**

Review of contractual construction specifications and clarification meeting with potential builder.
2012
Customer: Triumph Drilling

Vessel Name: Triumph 109 (Ex Searex 9)
Vessel type: Tender assist drilling barge
Shipyards: ST Marine, Singapore

Our scope of work:

Complete Basic Design Package for jumboisation project.
- Conceptual design, including hull resizing, new shape.
- Structural design hull and heavy lift crane pedestal
- Motion analysis
- Mooring analysis
- Strength and various FEA analysis.
- Deck layout with D.E.S.
- D.E.S. lifting studies.
- Anti-heel fast ballasting system and associated piping

All classed approved by ABS.
Marine operation manual update.

2010/2012
Customer: Sungin Geotec (Posco Plantecc)

Vessel Name: KJ U Tiger Class
Vessel type: Jack-up Drilling rig - New Build
Shipyards: Sungin Geotec

Our scope of work:

Complete “in House” Basic Design Package,
Complete set of construction specifications,
Obtained design class approval,
Detail equipment specifications,
RFQs for long lead items.
2012  Customer: Transocean

Vessel Name: Actina  
Vessel type: Semisubmersible drilling unit  
Shipyard: Sembawang shipyard for modification

**Our scope of work:**

Performed survey onboard the vessel. Designed complete rearrangement of the mud treatment system

---


Project Name: Floating hotel structures,  
Location: Marina bay, Singapore

**Our scope of work:**

Complete basic and detail design package for hull and superstructures
2010  
Customer: **Pacific Drilling Inc.**

**Vessel Name:** **Pacific Bora**  
**Vessel type:** New ultra deepwater drillship  
**Shipyard:** Samsung Heavy Industry

**Our scope of work:**

1) Engineering support & project management: post delivery modifications and improvements.
2) Participation in the Hazop session.

---

2009/2010

**Vessel Name:** **Tropical Driller**  
**Vessel type:** Ultra deepwater compact drillship – New Built  
**Shipyard:** TBD

**Our scope of work:**

Complete “in House” Basic Design Package (Structure, stability, hydrodynamics, general arrangement, accommodations, drilling systems)
2009  
Customer: **Songa Offshore**

**Vessel Name:** **Songa Mercur**  
**Vessel type:** Existing Semi-submersible  
**Shipyard:** N/A

**Our scope of work:**

1) New stability analysis IMO Modu & DNV.  
2) Complete New Marine Operations Manual up to class approval.  
3) Structural FEM analysis of upper deck under special loading conditions.  
4) Derrick modification & installation of new top drive (Engineering & project management).

2009  
Customer: **Transocean**

**Vessel Name:** **Transocean Legend**  
**Vessel type:** Existing Semi-submersible  
**Shipyard:** At anchorage in Malaysia

**Our scope of work:**

1) On site project management for miscellaneous repairs & modifications.  
2) Misc engineering studies:  
   - FEA analysis of lifeboat platforms  
   - Mechanical engineering for new iron roughneck  
   - Design of retractable BOP umbilical sheaves  
   - Feasibility study for mooring winches central control console  
   - Feasibility study for installation of Weatherford stabbing arm.  
   - Engineering study for installation of telescopic stabbing basket.  
   - Misc. electrical engineering studies.
2006-2008  Customer: **Swiber & Black Gold Drilling**

**Vessel Name:** Equatorial Driller  
**Vessel type:** Deepwater drilling barge – New Built  
**Shipyard:** TBD

**Our scope of work:**
- Complete “in House” Basic Design Package,
- Complete set of construction specifications,
- Obtained design class approval,
- Shipyard preparation,
- Project management,
- Detail equipment specifications,
- Procurement of long lead items.

---

2004-2007  Customer: **PT Apexindo**

**Vessel Name:** Soehanah  
**Vessel type:** Jack-up drilling rig – New Built  
**Shipyard:** PPL Singapore

**Our scope of work:**
- Shipyard preparation, construction specifications.
- Drill floor & BOP handling new conceptual design. Personalized vessel arrangement.
- Construction supervision from engineering to commissioning and vessel delivery.
2003

Customer: PT Apexindo

Vessel Name: **Rig 105**
Vessel type: Multi-purpose Barge - Conversion
Shipyard: Labroy Shipyard, Batam, Indonesia

*Our scope of work:*
- Engineering package for conversion of existing swamp barge into a multi-purpose vessel.
- Studies for conversion as tender assisting workover drilling vessel.
- Preparation of Shipyard scope of work.

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2002-2003

Customer: PT Apexindo

Vessel Name: **Yani Rig 104**
Vessel type: Drilling Swamp Barge - New Built
Shipyard: Keppel Fels, Singapore

*Our scope of work: (With PROTOMAX Ltd)*
- Basic Design
- Construction specification
- Construction supervision from engineering to commissioning and vessel delivery.
## 2002-2003

**Customer:** PT Apexindo

<table>
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<tr>
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<tbody>
<tr>
<td>Maera</td>
<td>Cantilever Drilling Swamp Barge - Major Conversion</td>
<td>Keppel Fels, Singapore</td>
</tr>
</tbody>
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**Our scope of work:**
(With PROTOMAX Ltd)

- Basic Design
- Construction specification
- Construction supervision from engineering to commissioning and vessel delivery.

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<td>Raissa</td>
<td>Cantilever Drilling Swamp Barge - New Built</td>
<td>Keppel Fels, Singapore</td>
</tr>
</tbody>
</table>

**Our scope of work:**
(With PROTOMAX Ltd)

- Basic Design
- Construction specification
- Construction supervision from engineering to commissioning and vessel delivery.