

2020-2021

Project: SDDS - Shallow Draft Drilling System

Vessel type: Ultra shallow draft Submersible units

for North Caspian Sea



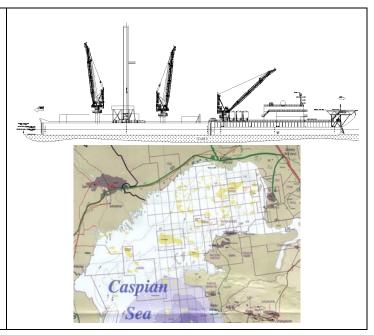
Our scope of work:

Engineering & project management services - Pre-FEED Phase

- Preparation of a comprehensive technical package including drawings, schematics, primary specifications, weight estimations, key equipment specs.
- Organise and manage 1st round bid to Caspian Sea shipyards for construction of the SDDS.

In partnership with Drillmec from Italy.





2016 - 2021 (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.







2019

Project: Ultra Shallow Draft MODU

Vessel type: Ultra shallow draft Submersible units

for North Caspian Sea



Our scope of work:

Evaluation of several submersible MODU concepts potentially suitable for operations in Kashagan field and with a main focus on reducing transit draft to the greatest possible extent.

Engineering work performed in partnership with Drillmec from Italy.





2019

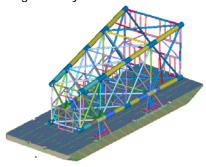
Project: Qatar North Oil Company - Al Shaheen

Subject: Jackets Transportation analysis



Our scope of work:

Extensive Finite Element Analysis for the transport of three jackets on a single Heavy Lift Vessel.







2019

Vessel Name: Raisis

Vessel type: Drilling Swamp Barge (Upgrade)



Our scope of work:

- New Stability Analysis
- New hull global strength analysisNew Marine Operations Manual.



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.







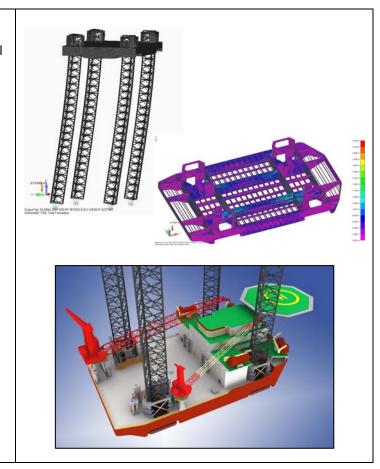
2015

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

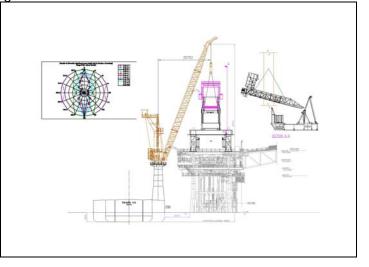
Vessel type: Tender assist drilling barge



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

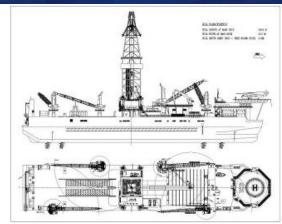
Our scope of work:

Complete "in House" Basic Design Package (Structure, stability, hydrodynamics, general arrangement, accommodations, drilling systems)

Development of constructions specification.

Enquiries for main equipment. Cost analysis.





2014

Vessel Name: ICHTHYS - FPSO

Vessel type: FPSO

Shipyard: Keppel Shipyard



Our scope of work:

LOWER TURRET SKIDDING OPERATION

Engineering consultancy for loadout operation (Naval architecture / Structural engineering)







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.

Ower 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.



2012-2013 Customer: Triumph Drilling / Sungjin Geotec

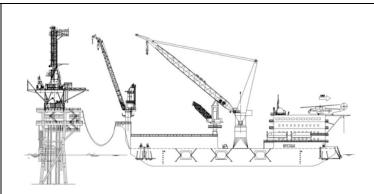
Vessel Name: **Triumph T650**Design model: Moonpool **MP4**

Vessel type: Tender assist drilling barge



Our scope of work:

Conceptual design for new built Tender Barge type "MP4".







2012 Customer: Triumph Drilling

Vessel Name: **Triumph 109 (Ex Searex 9)**Vessel type: Tender assist drilling barge
Shipyard: 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 Plantec)

Vessel Name: KJU Tiger Class

Vessel type: Jack-up Drilling rig – New Build

Shipyard: Sungin Geotec



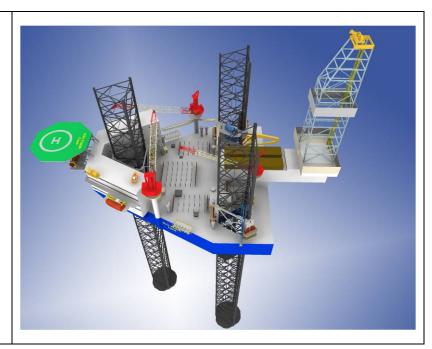
Our scope of work:

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



2010/2011 Customer: Marina Technology and Construction

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

Songa Offshore

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

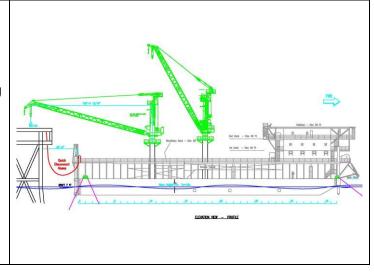


Our scope of work:

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.



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

Vessel Name: Maera

Vessel type: Cantilever Drilling Swamp Barge - Major Conversion

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

Vessel Name: Raissa

Vessel type: Cantilever 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.

