Sapura Energy
EPCIC Capabilities

OVERVIEW

Sapura Energy Overview

4 Business Segments

- Exploration and Production
- Drilling
- Engineering & Construction
- Operation & Maintenance

Continued Commitment towards Growth

- Entry into Upstream Services in 1990s – Offshore Platform Maintenance
- Merger with Kencana Petroleum expands capability into Fabrication Services in 2012
- Entered Offshore Wind Business in 2019 with award of Yunlin contract

Leading Oil and Gas Service Provider

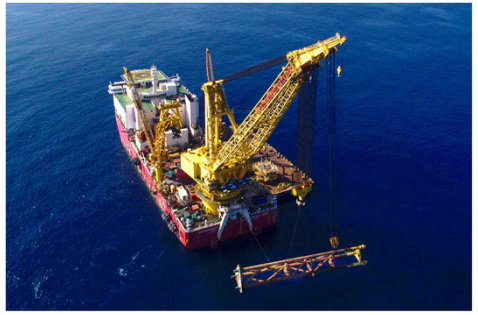
- EPCIC solution for shallow, deep and ultra-deep water
- Surveys, IRM, ROV, decommissioning, turbine maintenance and offshore support services
- Strong track record with over 400 offshore structures and 10,000km pipelines installed

Operating in over 20 Countries

- Global integrated capabilities with local focus
- 10 key global operating centres

State of the art fleet

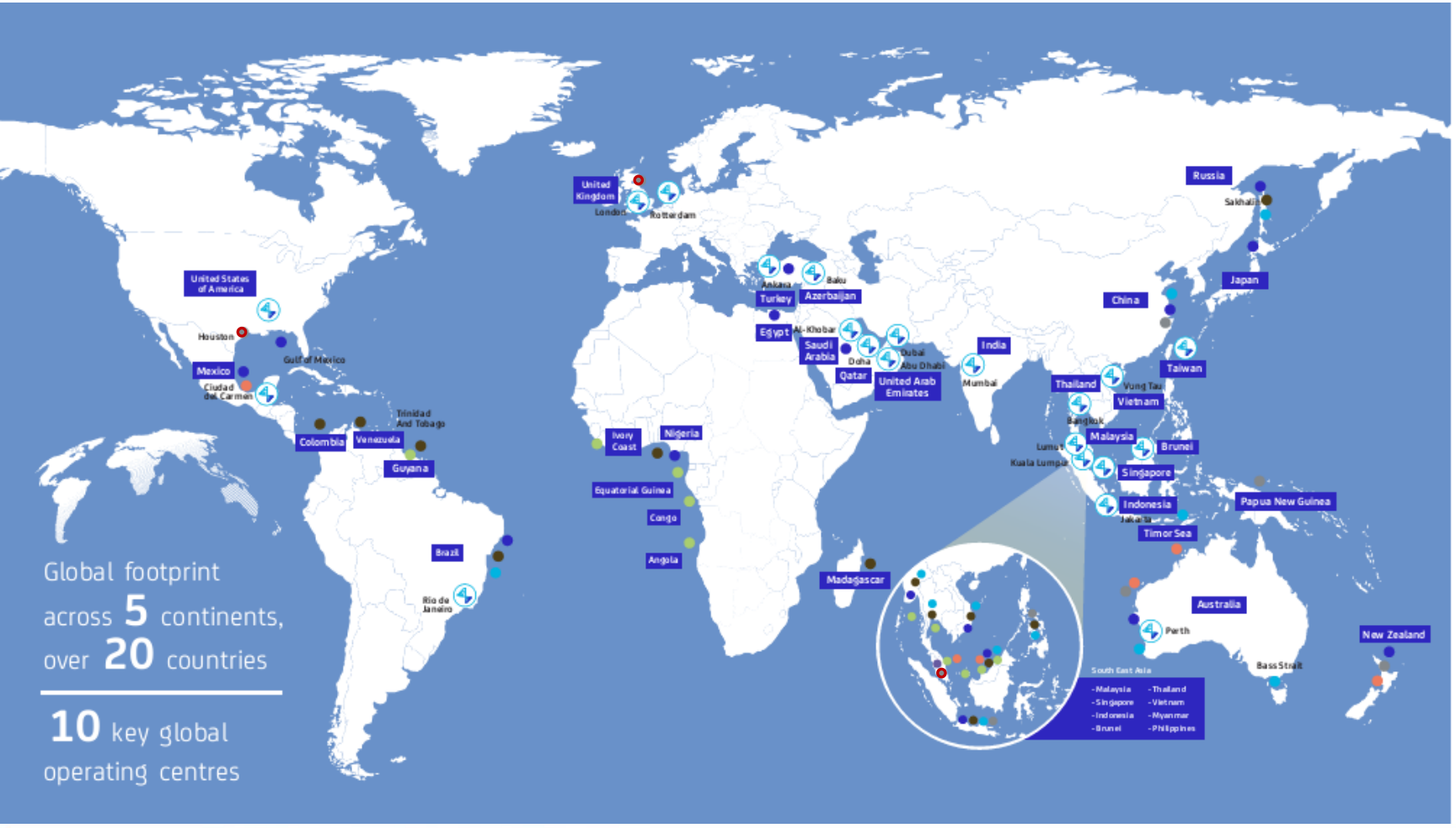
- 13 Marine Construction Vessels which includes 6 Derrick Pipelay Vessels , 6 Flex/Cable Lay and 1 Construction Vessel
- 11 Marine Support Vessels & Barges
- 15 Tender Drilling Rigs





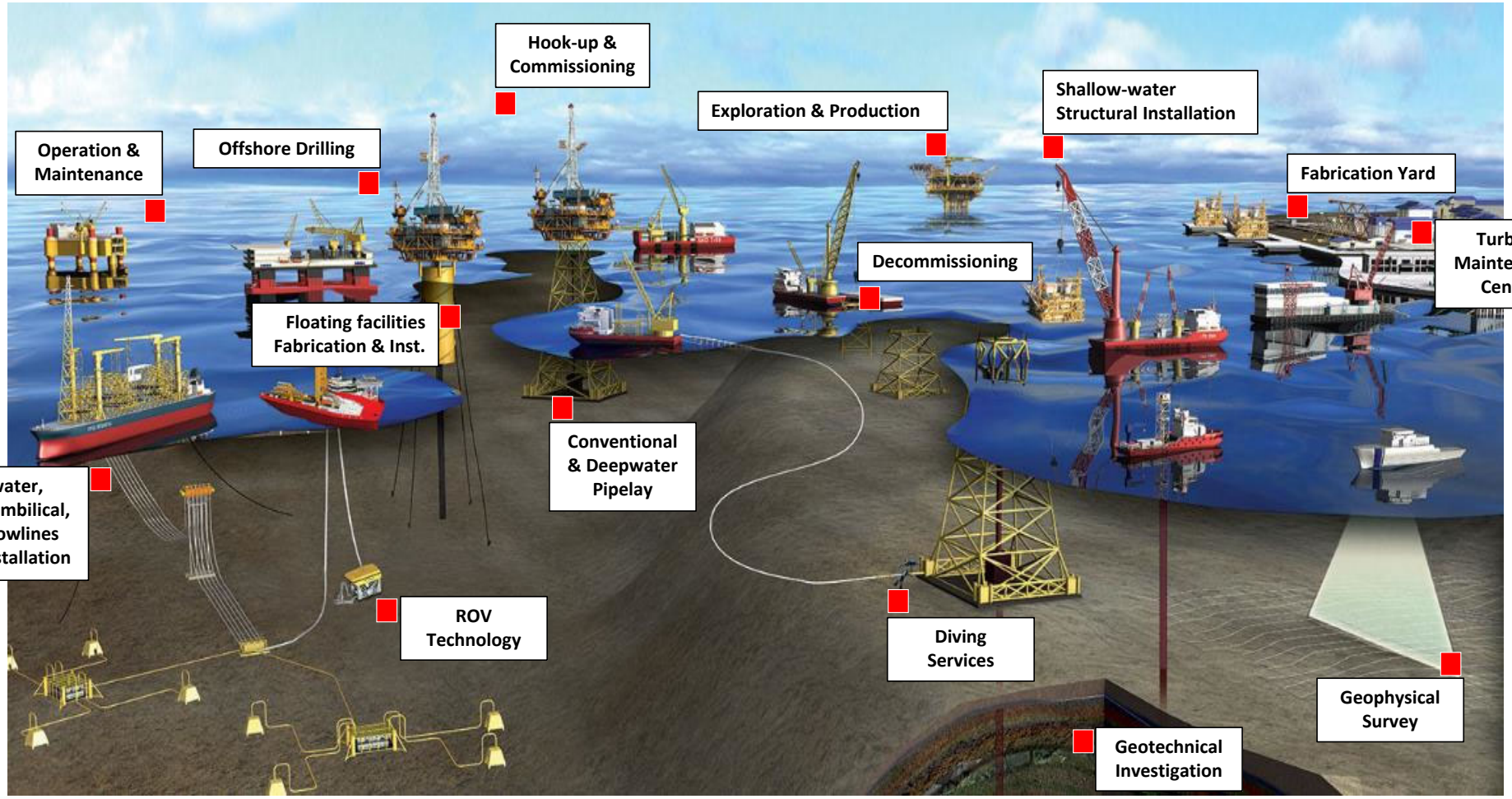


Global Footprint



- Our Locations
- Engineering
- Installation of Pipelines & Facilites
- Exploration & Production
- Fabrication
- Operations & Maintenance
- Drilling
- Geotechnical / Geophysical Survey
- Marine, Diving & ROV Services

Our Fully Integrated Offshore Capabilities



HEALTH, SAFETY & ENVIRONMENT

HSE Certifications and Policies

Compliance with industry international certification

- ISO 14001 : 2015
- ISO 45001 : 2018
- IMCA Certification
- ABS Certification

Accredited by industry-recognized certification body

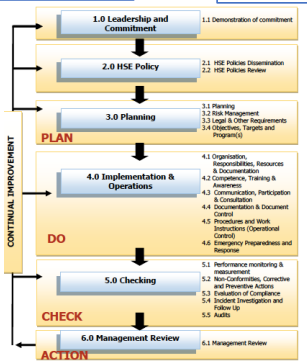
- Bureau Veritas
- IQNET
- DNVGL
- IMCA
- Intertek

Policies & Procedures:

HSE Management System designed based on the requirements and guidelines of:

- OSHAS 18001: 2007
- ISO 14001:2015
- OGP Guidelines for development and application of HSE Management Systems (report 6.36/210)





Employee Engagement Programs

Plan, Brief, Execute & De-Brief (PBED) Program

Plan
- Procedure / JHA / PTW



Brief
- Work specific briefing



Execute
- Compliances / surveillances



Debrief
- What went well
- What went wrong



SAFETY STARTS WITH Me
KESELAMATAN BERMULA DENGAN SAYA

STOP WORK

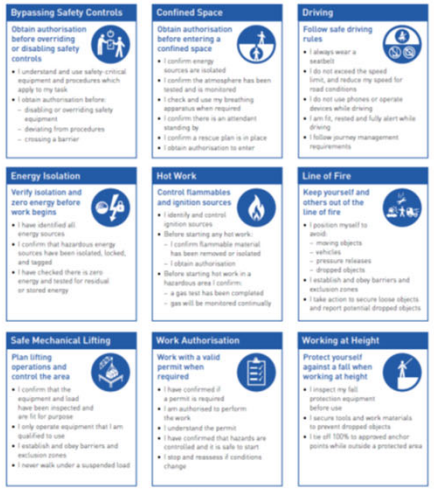




4 POINT CHECK

1. HOW will I perform this task?
2. WHAT can go wrong?
3. WHICH actions must I take to avoid any hazards?
4. WHO do I have to inform?

LIFE-SAVING RULES





HSE Objectives 2021

Preventing all incidents

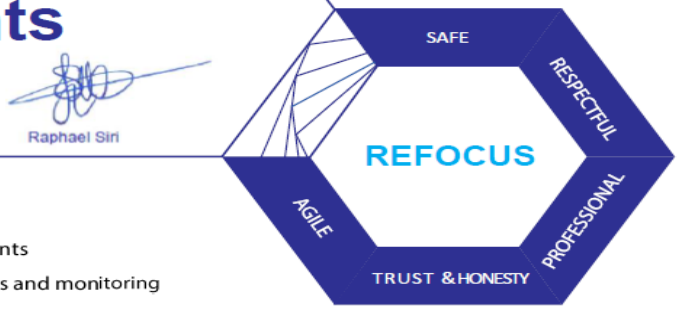
Raphael Siri

BEYOND ZERO

- Drive a culture of **Care**
- Promote a culture of **Continuous Improvement**
- Embed **PBED** into operational discipline
- Empower **STOP WORK** discipline – **Do it safely every time**

Che Wahab Abdullah

Velayuthan KPB



PROMOTE SIMPLICITY & OWNERSHIP

- **Review, simplify & standardize** all QHSE processes
- Facilitate **Operations'** full use of **all QHSE applications**
- Educate **Operations** to consistently **own QHSE matters**
- Expect **Operations' active participation** in HAZID & **Cross-OpCo's** audits.

Emilio Sanchez

OPERATIONS

- Drive the **SEB QHSE way** with Clients
- Improve **Process Safety** awareness and monitoring
- Improve **Quality Loss Reporting** & active reviews
- Strengthen **Bid Support** process & **outcomes**
- Strengthen all **Contractors' Management**

FACILITATE EXPERIENCE TRANSFER & LESSONS LEARNED

- Improve **Investigation** skillset, **timely RCA** & onshore incident reviews
- Drive a **"One SEB" approach** through increased internal sharing & standardization
- Verify **implementation of Lessons Learned** through monitoring & targeted audits
- Implement **digitalized Observations' Program**

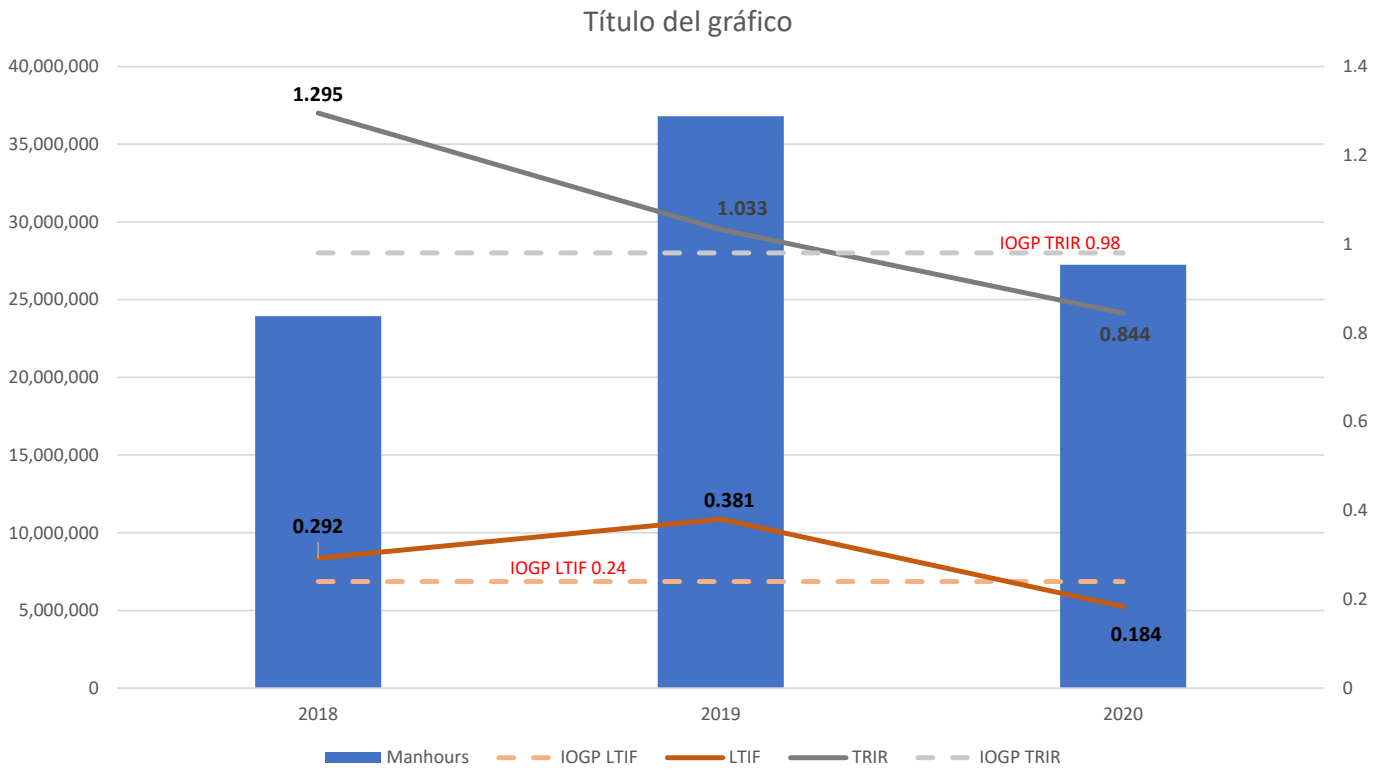
sk Sambasivan

Anna Rolls

MOHD AIZAM JUMA'AT

SEB GROUP – QUALITY & HSE
KEY OBJECTIVES – 2021

SEB Group HSE Performance 2018 – 2020



CAPABILITIES

Engineering & Construction – What We Do

Integrated EPCIC Delivery Solution







Engineering | Procurement | Construction | Installation | Hookup & Commissioning

In-House Brownfield, IRM and Decommissioning Services



Brownfield Modification & Topside Major Maintenance



Decommissioning, P&A and Light Well Intervention

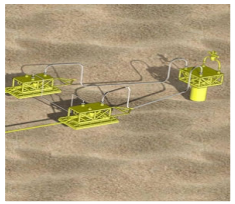


Inspection, Repair and Maintenance

Deepwater and SURF Capabilities







Operation in water depth up to 3,000m

Offshore Operation and Support Services







Geosurvey | Support Vessels | Construction Diving | ROV | Operation and Maintenance

In-house Multi-disciplined Engineering Capabilities

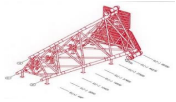
Peritus International

Located in UK, Malaysia and US.
Wholly-owned by Sapura

Multidisciplinary engineering capable of providing:

- Subsea and Offshore Developments for Energy Industry (O&G, CCS, Renewables) Worldwide
- Pipelines – Ultra-Deep, Deep and Shallow (Rigid & Flexible)
- Rigid Risers, Dynamic Risers (SCR, SLWR, SLOR) and Moorings
- Subsea systems Engineering incl. design of Manifolds and PLET's
- Intervention design Incl. Scour protection and rock design
- Structural interfaces
- Offshore installation methodology and calculations.

Sapura Engineering



- Detailed Design Engineering, Procurement & Commissioning Support
- Fabrication Engineering
- Design topsides/modules for FPSO's, onshore plants & offshore platforms and sub-structures (jackets).

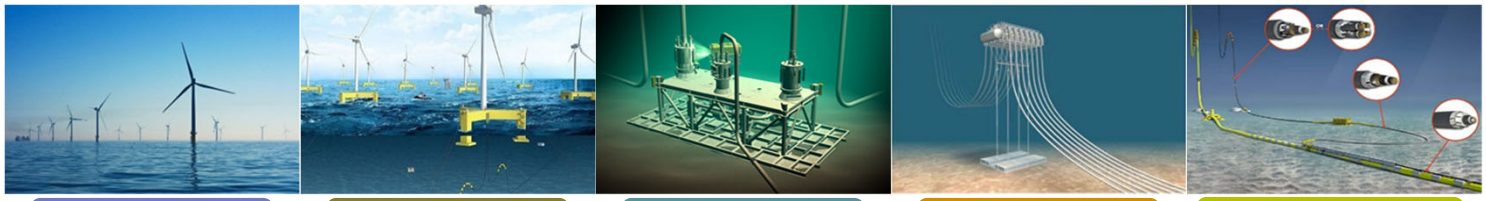
Ocean Flow International (USA)

- Based in Houston, Texas. Wholly-owned by Sapura
- Subsea & Offshore development projects around the world
- Deepwater system delivery - Riser and flowline engineering
- Control system design
- Package management
- Installation oversight

T&I Engineering & Constructability

- Complete in-house T&I engineering capability for platform facilities, shallow and deep-water pipeline, marine system, SURF and de-commissioning engineering

Excellent strategic relationship with International Engineering establishments and specialist metocean, marine, geotechnical and geohazards companies to meet demand and client need



Field Development | Floating Structures | Subsea Systems | Risers | Subsea Pipelines & Cables

In-house resources ensure timely project delivery

2 Major Fabrication Yards



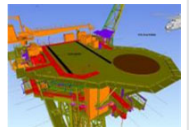
Lumut Yard
~1,020,000 sqm
situated in West Coast of Malaysia facing the Indian Ocean



Labuan Shipyard
~ 356,123 sqm
easy access to South China Sea

Engineering

Engineering Centers in Kuala Lumpur, London and Houston



6 Heavy-Lift & Pipelay Vessels



Sapura 3500
DP3, Anchored
3,500 MT Crane
390MT Tension



Sapura 3000
DP2
2,722 MT Crane
240 MT Tension



Sapura 1200
DP3, Anchored
1,200 MT Crane
520 MT Tension



LTS 3000
Self-propelled
Anchored
2,722 MT Crane
200 MT Tension



Sapura 2000
Anchored
2,000 MT Crane
140 MT Tension



Sapura 900
Anchored
900 MT Crane
120 MT Tension

6 Flex/Cable Lay Vessels

Diamante



Esmeralda



Topázio



Jade



Ônix



Ruby



2 Survey Vessels



Sapura Achiever
DP2
25 MT crane,
Deck Area 350 sqm



Sapura Wira
DP1/Anch
5 MT crane

Marine Support



26 x Remotely Operated Vehicle (ROVs)



1 x Floatover Launch Barge (Breadth – 38m/46m) 16,000MT Capacity

3 Construction & Diving Vessels



Constructor
DP2
250 MT Crane



Jane
DP2
80 MT Crane
Deck Area 700 sqm



Conquest
DP2
40 MT Crane
Deck Area 560 sqm

Exclusive Marketing Arrangements to market high end vessels



JSD 6000

- Under Construction – ready Q3 2022
- Dynamically Position DP3
- 1500Mt Static / 2000 MT pipelay tension (J-Lay tower)
- Quad Joints to 36”
- 5000 MT crane capacity
- 399 persons accommodation in cabin
- Lowering depth up to 4000 m



Goliath

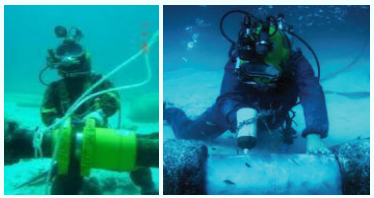
- Built 2009
- Dynamically Position DP3
- Deck Space 5000 sqm.
- 1600 MT crane capacity
- 296 persons accommodation in cabin

Subsea, Operation & Maintenance Services Offshore Structures

Subsea Solutions and Operation & Maintenance Services

Diving/ Inspection, Repair & Maintenance (IRM)	Geotechnical Survey	ROV Services (e.g. Tooling)	Maintenance
▪ Structural Inspection & Remediation ▪ Subsea Cable Inspection ▪ Topsides and splash zone IRM	▪ Pre/Post Installation Surveys ▪ Hydrographic survey ▪ Soil Investigation ▪ 2 dedicated Geotechnical Survey Vessels	▪ ROV cable survey ▪ ROV debris survey ▪ Underwater intervention ▪ ROV design and ma…er	▪ Gas Turbine Repair and Maintenance in Malaysia – JV or Sapura and Baker Hughes/GE

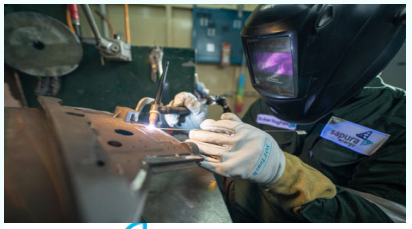
TOTAL MARINE TECHNOLOGY











A Joint Venture between Sapura Energy Berhad & Baker Hughes, a GE company

Decommissioning & LWI Capabilities

Decommissioning	Light Well Intervention / Plug & Abandonment
➢ Shutting down operations, closing wells, cleaning & making platform and pipelines safe for removal, disposal, abandonment or relocation	➢ Well Intervention ➢ Well Suspension and Pre-abandonment Tasks / Full Well Abandonment ➢ Subsea wellhead severance and recovery (below mud line)

LWI / P&A Assets



Subsea Intervention Device SID



AXE WH Severance System



Intervention Compensation System (ICS)



DSIS Down Hole Survey & Inspection Tool



WHAF Wellhead Alignment Frame



Hot Stab Manifold

Offshore Wind Farm Capabilities

Installation and Commissioning



Heavy Lifting

WTG Foundations & Offshore Substations

Transport & Installations



Cable Installation

Inter-Array, AC/DC Export Cables

Transport & Installations

Foundation Fabrication



Balance-of-Plant

Jacket Foundation & Substation Topsides/Substructures

Manufacturing/Fabrication

Offshore Wind EPCIC



Total Solutions

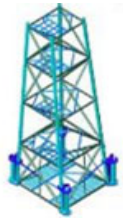
Foundations, Offshore Substations & Offshore Cables

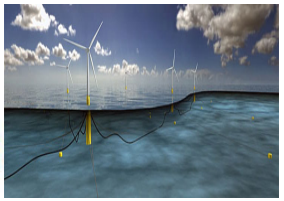
EPCI

Engineering and Project Management

Welcomes strategic partnerships with International Engineering Companies to meet demand and client needs

- Wind farm array design
- Foundation design
- Cable route
- Structural Interfaces
- Substation design
- Installation Engineering

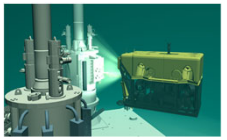




Subsea, Operation & Maintenance Services

- Structural inspection & remediation
- Diving, IMR, ROV
- Geotechnical Surveys
- Subsea cable inspection
- Topsides & Splash zones IMR
- Turbine Maintenance – Sapura GE
- Wind turbine scour rectification









TRACK RECORD

Sapura Energy – Track Record Summary

Key Projects - Ongoing

- Mubadala Pegaga : 14,500MT, Floatover
- ONGC 98/2 : 14,000MT, Floatover
- Hess FFD Phase 3 : 1,350MT, Lift

*Topside weights only. Jacket also in scope

Mubadala Petroleum

HESS

ओएनजीसी ONGC

Flex/Cable-Lay

- **~3,000 km of flexible pipelines** installed
- **~950 km of umbilical/cable** handled in Brazil
- **~200 km of umbilical/cable laid** in Brazil



- **71 nos. Topsides/ 76 nos. Jackets** fabricated
- **13,393 MT Kebabangan Jacket** largest structure fabricated for KPOC,(Shell, Petronas. Co-Ph JV ,2012) .
- **30,000 MT loadout quay side** capacity
- Capacity to roll up **of jacket outer bends ~ 3,000 MT**
- Ability to receive **large transport vessel**







Offshore Installation & Pipelay

- Heaviest jacket installed of **13,485 MT MHN Jacket** for ONGC, India (2011)
- **~5,800 km of rigid pipelines** installed
- **~400 no. of structures** (jacket, topside, module, etc.) installed



Offshore Wind

- Ongoing monopile installation-Yunlin OWF
- Geotechnical survey in Taiwan
- Ongoing FEED competition and tender for Hai Long Platform in Taiwan
- Ongoing pre-qualifications in Taiwan, Ireland and USA



Major EPCIC Experience – Facilities

Location	Client	Project Name	Water Depth (m)	Topsides Weight (MT)		Jacket Weight (MT)		Type of Jacket		Execution Year	Remark/ Status
				CPP	WHP	CPP	WHP	8 Leg	4 Leg		
Malaysia	HESS	**FFD Phase 3 Facilities, North Malay Basin (NMB)**	**50**		**1,247**		**1,350**		✓	**2019 – 2021**	Project ongoing.
India	ONGC	**ONGC East Coast KG-DWN 98/2**	**30**	**14,000**		**9,101**		✓		**2018 – 2022**	Project ongoing. (*Consortium with AFCONS India)* Floatover Topside LQ : 100 POB
				7,137 (LQUP)		**3,838** (LQUP)			✓		
					465 (Flare)		**2,128**		✓		
Malaysia	Mubadala Petroleum	**Pegaga Development Project**	**108**	**14,500**		**11,868**		✓		**2018 - 2021**	Project ongoing. # Client supplied Rotating Equipment Floatover Topside, LQ :70 POB
Mexico	HOKCHI energy	**Hokchi EPCIC Development**	**29**		**1,230**		**893**		✓	**2018 - 2020**	Project completed. * 6-legged
					2,563		**1250**		✓*		
Malaysia	HESS	**FFD Phase 2 Facilities, North Malay Basin (NMB)**	**55 - 60**		**522**		**521**		✓*	**2017 - 2019**	Project completed. * 3-Legged
					1,074		**577**		✓*		

Major EPCIC Experience – Facilities

Location	Client	Project Name	Water Depth (m)	Topsides Weight (MT)		Jacket Weight (MT)		Type of Jacket		Execution Year	Remark/ Status
				CPP	WHP	CPP	WHP	8 Leg	4 Leg		
Qatar	North Oil Company	Jackets and Drill Decks for Gallaf Project	60 - 70		276		1,798		✓	2018 - 2019	Project completed. # Client supplied materials.
					307		1,773		✓		
					279		1,694		✓		
India	ONGC	MHSRD Phase III Project	79		1,914		2,715		✓	2015 – 2017	Project completed.
					1,908		2,694		✓		
					2,014		2,469		✓		
Malaysia	PETRONAS	BNJT-K (Baronia) & TTJT-A (Tukau) Wellhead Platforms	75		2,476		1,988		✓	2014 - 2017	Project completed.
					1,207		673		✓		
Malaysia	HESS	RHWP for Full Field Development Project, NMB	60		2,387		3,728		✓	2014 - 2016	Project completed.

Major EPCIC Experience – Facilities

Location	Client	Project Name	Water Depth (m)	Topsides Weight (MT)		Jacket Weight (MT)		Type of Jacket		Execution Year	Remark/ Status
				CPP	WHP	CPP	WHP	8 Leg	4 Leg		
MTJDA	CPOC	JDA Block B-17 and B17-01 Field Phase 3 Dev Project	62		932		675		✓	2014 - 2015	Project completed.
					853		657		✓		
					913		669		✓		
					862		653		✓		
Malaysia	JX Nippon Oil & Gas Exploration	Layang Development Facilities Project	63		965		1,179		✓	2014 - 2015	Project completed.
MTJDA	ttm	JDA Gas Balancing evacuation Project (EVA)	65		2,500		700		✓	2013 - 2015	Project completed.

Major EPCIC Experience – Pipeline (Rigid)

Location	Client	Project Name	Water Depth (m)	Segment	Dia.	Total Length (km)	Execution Year	Remark/ Status
Singapore		**SBM Pipeline Rejuvenation - Phase II Project (Bukom Refinary)**	40	1	48”	2.3	2020 - 2022	Project ongoing.
MTJDA	CPOC	**Additional Andalas Pipeline Project for Phase 4 Development**	60	1	20”	29	2020 - 2022	Project ongoing.
Qatar	TOTAL	**16” DP4/DP3/DP2 Platforms (Sumud Project - CRA Linepipe)**	60	1	16”	15.4	2020 - 2021	Project ongoing.
Brunei	BRUNEI	**Pipeline Replacement Project (PRP-7)**	100	1	16”	9.4	2020 - 2021	Project ongoing.
Malaysia	Mubadala Petroleum	**Pegaga Gas Development Project**	108	1	38”	4	2018 – 2021	Pipeline installation completed. Project ongoing.
Indonesia	eni	**Merakes Project – EPCI-4 Offshore Pipeline System (Deepwater)**	1,300	2	18”	46	2018 – 2021	Project ongoing.
India	ओएनजीसी ONGC	**Subsea Wells and Pipeline Replacement Project V**	130	27	4.5”-14”	124	2018 – 2019	Project completed.

Major EPCIC Experience – Pipeline (Rigid)

Location	Client	Project Name	Water Depth (m)	Nos	Dia.	Total Length (km)	Execution Year	Remark/ Status
India		**Fifth Oil Berth Project**	130	2	42”	5.25	2018 – 2019	Project completed.
India	ONGC	**B-127 Pipeline RTR Project**	60	11	6”-16”	114	2016 – 2018	Project completed.
Myanmar	PTTEP	**Zawtika Development Project Phase 1C**	150	4	14”-18”	53	2016 – 2018	Project completed.
Turkey	TANAP	**Trans Anatolian Natural Gas Pipeline Project**	85	2	36”	17.6	2016 – 2018	Project completed.
India	ONGC	**MHSRD Phase III**	79	15	6”-16”	116	2015 – 2017	Project completed.
Malaysia		**Gumusut Kakap Development (Deepwater)**	1,200	10	8”-12”, 18”	200	2010 - 2014	Project completed.
Malaysia	MURPHY OIL CORPORATION	**Kikeh Gas Pipeline Project (Deepwater)**	1,450	1	12”	88	2006 - 2008	Project completed.

Decommissioning Experience

Location	Client	Project Name	Water Depth (m)	Topside Weight (MT)	Jacket Weight (MT)	Execution Year	Remark/ Status
Thailand	Chevron	**Asset Retirement 2020 Offshore Removal Campaign**	60 - 74	7 Jackets Weight 870 MT – 1,119 MT		2020	Project completed. Jacket Weight (MT): 872.2, 944.5, 971.8, 873.8, 1,067, 1,052 & 1,119
Malaysia	PCPP OPERATING CO. SDN BHD.	**ERPD Services for DANA dan D30 Facilities Decommissioning Project**	46 - 80	58 375	360 650	2017	Project completed.
Japan	NIPPON STEEL ENGINEERING	**Iwaki Platform Decommissioning Project**	154	20,735		2010	Project completed

Brownfield Modification, Integration & HUC Experience

WIP

Location	Client	Project Name	Nature Of Work	Expended Manhours	Execution Year	Remark/ Status
Malaysia		**Provision of Hook-Up Commissioning and Brownfield Tie-In Modification Works**	SIMOPS & Shutdown	TBA	2020 - 2024	Project Ongoing
Brunei		**PRP7 – PID1494 Pipeline Replacement Project**	Shutdown	TBA	2020 - 2021	Project Ongoing
Brunei		**HUC Works for Salman EPCI**	Shutdown	TBA	2019 - 2022	Project Ongoing
Malaysia	HESS	**HUC Works for FFD Phase 3 Facilities, North Malay Basin (NMB)**	Shutdown	TBA	2019 - 2022	Project Ongoing
Malaysia	PETRONAS	**Procurement, Construction, Hook Up & Commissioning (PCC) Works and Well Tie-In for Bardegg & Baronia EOR Development Project**	SIMOPS	5,616	2019 - 2020	Project Completed
Malaysia	PETRONAS	**HUC for EPCC of PFLNG1 Relocation & Tie-In Project**	SIMOPS	101,901	2018 - 2019	Project Completed

Value Proposition

- **Integrated service provider** across the oil & gas value chain with full-fledged EPCIC capabilities
- **Strong Management Team** focused on time and within budget delivery of projects.
- **State of the Art new assets with track record –** Assured Delivery.
- **Established track record**, execution experience and resources & capabilities to successfully complete and deliver complex projects.
- **Well-structured and established QHSE policies**, procedures and practices to insure inherently safe design and execution.
- **Competitive cost base** with flat organization structure with empowered project teams.
- **Global presence** and good network of vendors, suppliers and subcontractors.
- **Resources and assets to bid and execute turnkey EPCIC project,** offering competitive synergies and minimizing interface risks

28


sapura
energy

SALIENT PROJECT DETAILS

ONGC East Coast KG-DWN 98/2

EPCIC | Oil & Natural Gas Corporation Ltd. (ONGC) | Block KG-DWN 98/2, Bay of Bengal, India | 30 meters | Nov 2018 – May 2022 Ongoing

Scope

	E	P	C	I	C
Topside	●	●	●	●	●
Jacket	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
CPP Topside	14,000 MT	Sapura FLB-1 / Holmen Pacific	Floatover
CPP Jacket	9,101 MT	Sapura FLB-1	8-Legged, Launch
CPP Piles	15,618 MT	Sapura 3000	16 x piles
LQUP Topside	7,137 MT	Sapura 3000/3500	100 POB LQ
LQUP Jacket	3,838 MT	Sapura 3000 & Sapura 3500	4-Legged
LQUP Piles	10,130 MT	Sapura 3000	8 x Piles
Flare Topside	465 MT	Sapura 3000	
Flare Jacket	2,128 MT	Sapura 3000	4-Legged
Flare Piles	4,825 MT	Sapura 3000	4 x Piles







Status

- Overall progress : 50.5% (as at 15 Dec 20)
- Installation window : Q4 2021 – Q1 2022

● *In-house* ● *Consortium with AFCONS India* ● *Subcontractor (Aker)*

Pegaga Development Project

EPCIC	MDC OIL & GAS (SK-320) LTD – Mubadala Petroleum (Malaysia)	Block SK302, Offshore Sarawak, East Malaysia	108 meters	Mar 2018 – Sep 2021 Ongoing

Scope

	E	P	C	I	C
Topside	●	●	● ●	●	●
Jacket	●	●	●	●	●
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
Topside	14,500 MT	Sapura FLB-1	Floatover, 70 POB LQ
Jacket	11,868 MT	Sapura FLB-1	8-legged, Launch
Conductor	5,092 MT	Sapura 3000	10 x Conductors
Pile	4,825 MT	Sapura 3000	12 x Piles
WHP deck	1,754 MT	Sapura 3000	Client nominated yard
Pipeline	4KM	Sapura 3000	Carbon Steel, Dia: 38”

Status

- Overall progress : 81.1% (as at 15 Dec 20)
- Jacket & WHP Deck Installation : March 2020
- Pipeline Installation : March 2020
- Topside Loadout and Floatover : May 2021









*Completed **2 roll ups of jacket outer bends weighing 3,000 MT each** – biggest in the region*

● *In-house* ● *Subcontractor (DDE - Worley, Fab WHP Deck – OceonMight)*

FFD Phase 3 Facilities, North Malay Basin (NMB)

EPCC+I	HESS Exploration and Production Malaysia B.V.	Block A18, North Malay Basin (NMB), Offshore Terengganu, Malaysia	50 – 75 meters	July 2019 – May 2021 Ongoing

Scope

	E	P	C	I	C
Topside	●	●	●	●	●
Jacket	●	●	●	●	●
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
Bergading-B Wellhead Platform (WHB)	1,247 MT	Sapura 3000	
Jacket	1,350 MT	Sapura 3000	4-Legged
Piles & Appurtenances	878 MT	Sapura 3000	4 x Piles
Pipeline	7.3 KM	Sapura 3000	• Dia: 12” • CRA #Supplied by Client

Status

- Overall progress : 41.28% (as of 13 Nov 20)
- Jacket &Topside Installation : Mar 2021
- Pipeline Installation : Apr 2021






● *In-house* ● *Subcontractor (Worley)*

Hokchi EPCIC Development

EPCIC | Hokchi Energy | Hokchi Field, Offshore Mexico | 29 meters | Oct 2018 – Mar 2020 Completed

Scope

	E	P	C	I	C
Topside	●	●	●	●	●
Jacket	●	●	●	●	●
Pipeline	●	●	●	●	●

Salient Details

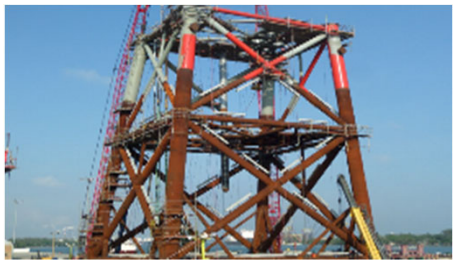
Item	Description	Installation	Remarks
HSP Topside	1,230 MT	Sapura 3500	
HSP Jacket	893 MT	Sapura 3500	4-legged
HCP Topside	2,563 MT	DB50	
HCP Jacket	1,250 MT	Sapura 3500	6-legged
Pipelines	60.4 KM	Sapura 3500	Dia: 6” – 14”
Submarine cables	2 x 3.5”	Sapura 3500	Power umbilical

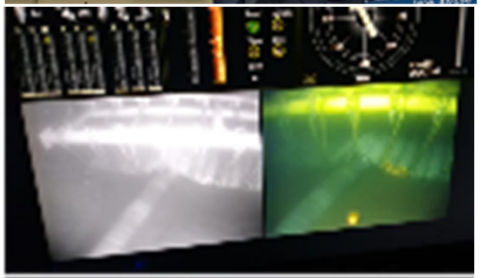
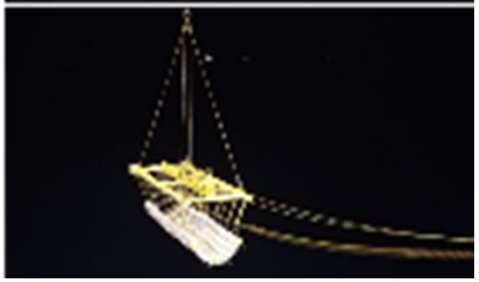
* All beach approach lines by Horizontal Directional Drilling (HDD) method

Status

- Project completed : Mar 2020

● *In-house* ● *Subcontractor (Eng – GEOMSA, Fab – COMMSA)*



EPCI of Jackets and Drill Decks for Gallaf Project

EPCI | North Oil Company | Gallaf Field, Offshore Qatar | 60 – 70 meters | June 2018 - July 2019 Completed

Scope

	E	P	C	I	C
Drilling Deck	●	●	●	●	●
Jacket	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
DC Drill Deck	276 MT	Sapura 3000	
DC Jacket	1,798 MT	Sapura 3000	4-Legged
EG Drill Deck	307 MT	Sapura 3000	
EG Jacket	1,773 MT	Sapura 3000	4-Legged
FC Drill Deck	279 MT	Sapura 3000	
FC Jacket	1,694 MT	Sapura 3000	4-Legged

Status

Project completed in July 2019

● *In-house* ● *Others*







EPCC+I for FFD Phase 2 Facilities, North Malay Basin (NMB)

EPCC+I

HESS Exploration and Production Malaysia B.V.

Block PM302, North Malay Basin (NMB), Offshore Terengganu, Malaysia

55 - 60 meters

Dec 2017 - May 2019
Completed

Scope

	E	P	C	I	C
Topside	● ●	●	●	●	●
Jacket	● ●	●	●	●	●
Pipeline	●	●	●	●	

Salient Details

Item	Description	Installation	Remarks
Anggerik Topside	522 MT	LTS 3000	
Anggerik Jacket	521 MT	LTS 3000	3-Legged
Angerik Piles	610 MT	LTS 3000	
Zetung Topside	1,074 MT	LTS 3000	
Zetung Jacket	577 MT	LTS 3000	3-Legged
Zetung Piles	600 MT	LTS 3000	
Pipeline	20KM	LTS 3000	Dia: 12”

Status

Project completed in July 2019

● *In-house* ● *Subcontractor (RNZ)*







Mumbai High South Redevelopment Phase-III (MHSRD-III) Project

EPCIC | Oil & Natural Gas Corporation Ltd. (ONGC) | Mumbai High South, Offshore Mumbai, India | 79 meters | June 2015 – April 2017 Completed

Scope

	E	P	C	I	C
Topside	●	●	●	●	●
Jacket	●	●	●	●	●
Pipeline	●	●	●	●	

Salient Details

Item	Description	Installation	Remarks
RS-18 WHP	1,914 MT	LTS 3000	
RS-18 Jacket	2,715 MT	LTS 3000	4-legged
RS-20 WHP	1,908 MT	LTS 3000	
RS-20 Jacket	2,694 MT	LTS 3000	4-legged
RS-21 WHP	2,014 MT	LTS 3000	
RS-21 Jacket	2,469 MT	LTS 3000	4-legged
Pipeline	115.9 KM	Sapura 1200	Dia: 6” – 16”









Status

- Project completed : April 2017

● *In-house* ● *Subcontractor (Aker Solutions)*

EPCC+I of BNJT-K (Baronia) & TTJT-A (Tukau) Wellhead Platforms

EPCC+I	Petronas Carigali Sdn Bhd (PCSB)	Tukau and Baronia Field, Offshore Sarawak, Malaysia	75 meters	Nov 2014 – Feb 2017 Completed

Scope

	E	P	C	I	C
Topside	●	●	●	●	●
Jacket	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
BNJT-K Topside & Bridge	2,476 MT	Sapura 3500	Installation under Pan Malaysia T&I umbrella contract
BNJT-K Jacket	1,988 MT	Sapura 3500	
TTJT-A Topside	1,207 MT	LTS 3000	
TTJT-A Jacket	673 MT	Sapura 1200	

Status

Project completed in February 2017







● *In-house*

EPCIC for JDA Block B-17 and B17-01 Field Phase 3 Development Project

EPCIC	Carigali-PTTEPI Operating Company Sdn Bhd (CPOC)	Malaysia Thailand Joint Development Area (MTJDA)	62 meters	Sep 2014 – Aug 2015 Completed

Scope

	E	P	C	I	C
Topside & Jacket	●	●	●	●	●
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
TAPI-A Topside	932 MT	Sapura 1200	
MELATI-A Topside	853 MT	Sapura 1200	
MUDA-F Topside	913 MT	Sapura 1200	
AMARIT-A Topside	862 MT	Sapura 1200	
TAPI-A Jacket	675 MT	LTS 3000	4-Legged
MELATI-A Jacket	657 MT	Sapura 1200	4-Legged
MUDA-F Jacket	669 MT	Sapura 1200	4-Legged
AMARIT-A Jacket	653 MT	Sapura 1200	4-Legged
Pipeline	43.8 KM	Sapura 1200	Dia: 18”

Status

Project completed in August 2015







● *In-house* ● *Subcontractors*

EPCI and Pre-commissioning of a 16” DP4/DP3/DP2 Pipelines (Sumud Project)

EPCIC	Total E&P Golfe Limited	Block 6, Al Khalij field, Qatar	60 meters	July 2020 - August 2021 Ongoing

Scope

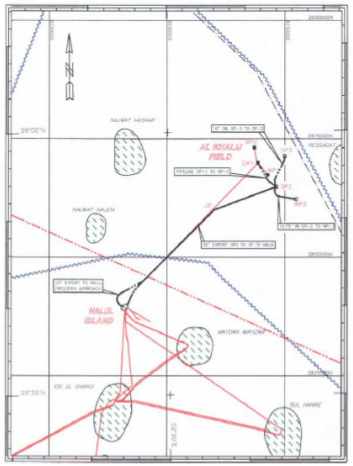
	E	P	C	I	C
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
DP4 – DP3 pipeline	10km	Sapura 1200	• Dia: 16” • CRA
DP3 – DP2 pipeline	6km	Sapura 1200	• Dia: 10” • CRA

Status

- Project status : Ongoing
- Installation window : Q4 2020 – Q2 2021



● *In-house*

EPCI Trans-Anatolian Natural Gas Pipeline

EPCI	Tanap Doğalgaz İletim A.Ş	Dardanelles Strait, Sea of Marmara, Turkey	85 meters	July 2016 – August 2018 Completed

Scope

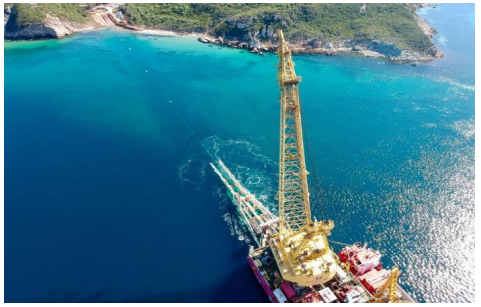
	E	P	C	I	C
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
Pipelines	2 x 17.6 KM	Sapura 1200	• Dia: 36” • Include shore approach installation • 4 x Fibre optic cable

Status

Project completed in August 2018







● *In-house* ● *Others*

Zawtika Development Project Phase 1C

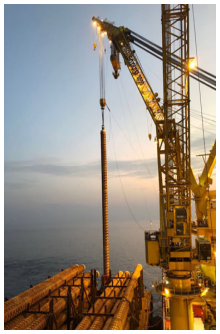
EPCIC	PTTEP International Limited	Zawtika Field, Offshore Myanmar	150 meters	August 2016 – April 2018 Completed

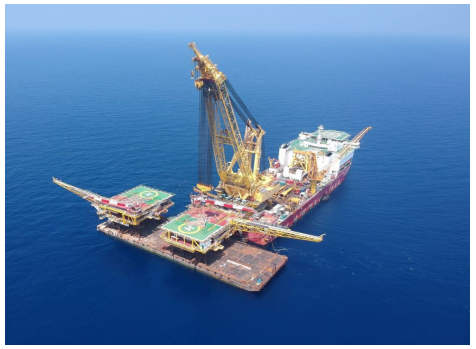
Scope

	E	P	C	I	C
WHP	●	●	●	●	●
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
WP 8	Topside : 1,474 MT Jacket : 6,671 MT	Sapura 3500 Sapura FLB-1	Subcontractor to PT Gunanusa
WP 9	Topside : 1,456 MT Jacket : 6,410 MT	Sapura 3500 Sapura FLB-1	Subcontractor to PT Gunanusa
WP10	Topside : 1,485 MT Jacket : 6,589 MT	Sapura 3500 Sapura FLB-1	Subcontractor to PT Gunanusa
WP11	Topside : 1,485 MT Jacket : 6,641 MT	Sapura 3500 Sapura FLB-1	Subcontractor to PT Gunanusa
Associated pipelines	IP8 : 22.5 KM IP9 : 11 KM IP10 : 5.6 KM IP11 : 15.3 KM	Sapura 3500	Dia: 14” – 18”




Status

Project completed in April 2018

● *In-house* ● *Others*

Asset Retirement 2020 Offshore Removal Campaign

Decomm | Chevron Thailand Exploration and Production | Gulf of Thailand | 60 – 74 meters | Jan 2020 – Dec 2020 Completed

Scope

	E	R	P	D
Jacket	●	●	●	●

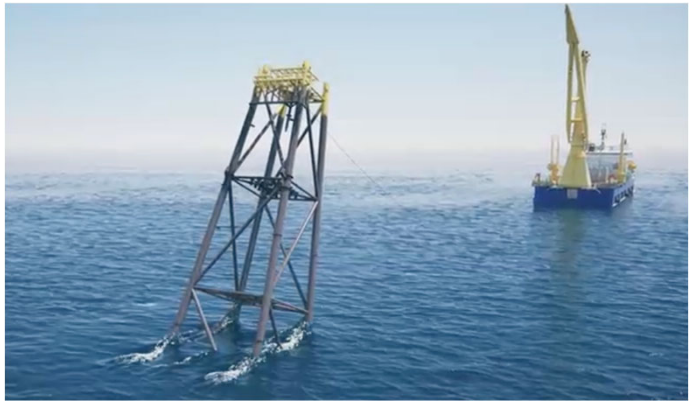
Salient Details

Item	Description	Removal	Remarks
YAWA Jacket	872.2 MT	Sapura 3000	3-legged
FUWM Jacket	944.5 MT	Sapura 3000	4-legged
FUWL Jacket	971.8 MT	Sapura 3000	4-legged
NPWO Jacket	873.8 MT	Sapura 3000	4-legged
PKWA Jacket	1,067 MT	Sapura 3000	4-legged
PKWB Jacket	1,052 MT	Sapura 3000	4-legged
SPWB Jacket	1,119 MT	Sapura 3000	4-legged

Status

Project completed in December 2020

● *In-house*





ERPD Services for DANA dan D30 Facilities Decommissioning Project

Decomm | PCPP Operating Company | DANA and D30 Field, Offshore Sarawak, Malaysia | 46 - 80 meters | Jan 2017 – Dec 2017 Completed

Scope

	E	R	P	D
Topside	●	●	●	●
Jacket	●	●	●	●

Salient Details

Item	Description	Removal	Remarks
DANA Topside	58 MT	Sapura 3500	
DANA Jacket	360 MT	Sapura 3500	3-legged vertical jacket
D30 Topside	375 MT	Sapura 3500	
D30 Jacket	650 MT	Sapura 3500	4-legged vertical jacket

Status

Project completed in December 2017









● *In-house*

Yunlin Offshore Wind Farm

T&I - OWF | Yunneng Wind Power Co. Ltd. | Taiwan Strait, Taiwan | 7 - 35 meters | Mar 2019 – Jul 2021 Ongoing

Scope

	E	P	C	I	C
Substructure	●	●	●	●	

Salient Details

Item	Description	Installation	Remarks
Monopile	80 Nos	Sapura 3500	Dia: 8m – 10m

Status

- Project status : Ongoing
- Installation window : Q3 2020 – Q2 2021







● *In-house* ● *Others*

Mizton Phase 1 Development

T&I | ENI Mexico | Mizton field, Area 1, Mexico | 100 meters | July 2018 – April 2019 Completed

Scope

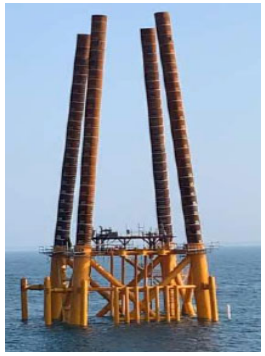
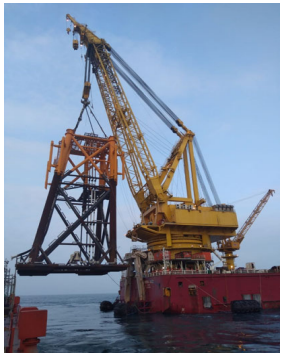
	E	P	C	I	C
Structure	●	●	●	●	●
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
WHP Topside	2,924 MT	Sapura 3500	
WHP Jacket	1,785 MT	Sapura 3500	4-Legged
Pipeline	22 km	Sapura 3500	• Dia: 10” • Carbon steel
Fibre optic cable	22 km	Sapura 3500	

Status

T&I of structure and pipelines completed in April 2019




● *In-house* ● *Others*

Southern Swamp SGE Pipeline

T&I | Shell Petroleum Development Company (SPDC) | Offshore Nigeria | 20 meters | Sep 2018 – Dec 2018 Completed

Scope

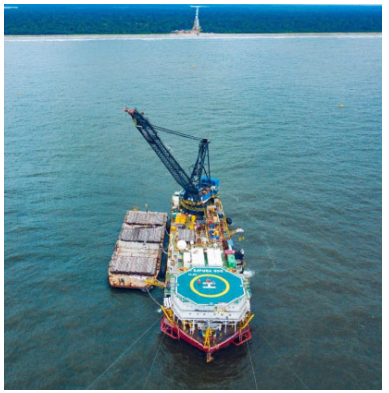
	E	P	C	I	C
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
Pipeline	18.4km	Sapura 900	• Dia: 16” • Carbon steel

Status

T&I of pipelines completed in December 2018







● *In-house* ● *Others*

Subsea Flexible, Pipelines and Risers for Layang Development Project

T&I	JX Nippon Oil & Gas Exploration (Malaysia) Ltd	Layang Field, Block SK10, Offshore Sarawak, Malaysia	90 meters	Feb 2010 – Jan 2021 Completed

Scope

	E	P	C	I	C
Topside & Jacket	●	●	●	●	●
Pipeline	●	●	●	●	●

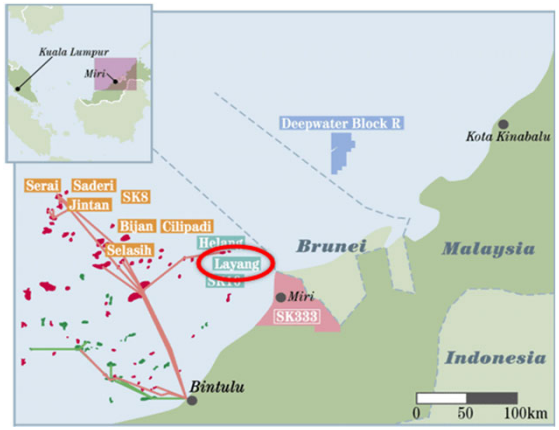
Salient Details

Item	Description	Installation	Remarks
Phase 1			
HIP-FPSO flowline & riser	Flowline: 10” Riser: 11” & 13”	Sapura 1200	Dia: 10”, 11”, 13”
Phase 2			
Flexible riser	Riser 13” repair	Sapura Constructor	
SAT diving	subsea tie-in for (flowline to riser)	Sapura Constructor	

Status

T&I of structures and pipelines completed in Q4 2020

● *In-house* ● *Others*





Kirinskoye GCF Development Project

T&I | Superstroy XXI Limited Liability Company | Kirinskoye Field, Sakhalin, Russia | 90 meters | May 2020 – Sep 2020 Completed

Scope

	E	P	C	I	C
Pipeline	●	●	●	●	●
PLET	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
P4 pipeline	2.4km	Sapura 1200	• Dia: 10” • Carbon steel
P7 pipeline	1.7km	Sapura 1200	• Dia: 10” • Carbon steel
PLET	4 pcs	Sapura 1200	

Status

T&I of structure and pipelines completed in September 2020

● *In-house* ● *Others*







F12 Gas Development Project

T&I | Petronas Carigali Sdn. Bhd. | Offshore Sarawak, Malaysia | 100 meters | July 2016 – April 2017 Completed

Scope

	E	P	C	I	C
Structure	●	●	●	●	●
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
Topside	2,088 MT	Sapura 3000	
Jacket	4,305MT	Sapura 3000	6-Legged
Pipeline	13.7km	Sapura 3000	Dia: 24”

Status

T&I of structures and pipelines completed in April 2017





● *In-house* ● *Others*

Kalimantan Jawa Gas Pipeline

T&I | PT PGAS Solution Consortium | Kepodang Field, Indonesia | 70 meters | Dec 2014 – Dec 2015 Completed

Scope

	E	P	C	I	C
Pipeline	●	●	●	●	●

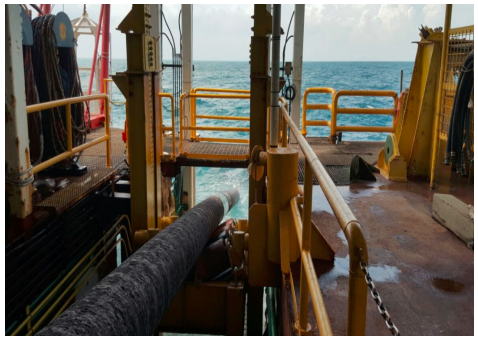
Salient Details

Item	Description	Installation	Remarks
Pipeline	198km	Sapura 900	Dia: 14”

Status

T&I of pipelines completed in December 2015







● *In-house* ● *Others*

Nam Con Son 2 Project

T&I	Vietsovpetro (VSP)	Nam Con Son Basin, Offshore Vietnam	150 meters	July 2014 - Nov 2015 Completed

Scope

	E	P	C	I	C
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
Pipeline	151km	Sapura 1200	Dia: 26”

Status

T&I of pipelines completed in November 2015







● *In-house* ● *Others*

Thai Binh – Ham Rong Pipeline Project

T&I | PTSC Offshore Services | Thai Binh Field, Offshore Vietnam | 30 meters | Nov 2014 – Oct 2015 Completed

Scope

	E	P	C	I	C
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
Pipeline	18.4km	Sapura 900	• Dia: 12” • 5.3 km – nearshore • 13.1km – offshore

Status

T&I of pipelines completed in October 2015

● *In-house* ● *Others*









Yetagun Phase 4 Project

T&I | Petronas Carigali (Hong Kong) Ltd | Yetagun Field, Offshore Myanmar | 100 meters | July 2011 – April 2012 Completed

Scope

	E	P	C	I	C
Structure	●	●	●	●	●
Piles	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
Jacket	5,000 MT	LTS 3000	4-Legged
Skirt Piles	8 x 84” OD	LTS 3000	Total weight: 3,088 MT

Status

T&I of structures completed in April 2012





● *In-house* ● *Others*

Liu Hua 4-1 Oil Field Project

T&I	China Offshore Oil Engineering Company (COOEC)	Liu Hua 11-1 and Liu Hua 4-1 oilfields, China	300 meters	March 2012 – April 2012 Completed

Scope

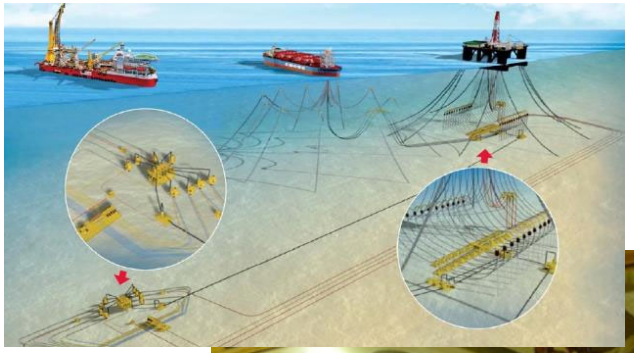
	E	P	C	I	C
Pipeline	●	●	●	●	●
Subsea	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
Pipeline	10.4km	Sapura 3000	• Dia: 22” • pipe-in-pipe
PLETs	2 x 30MT	Sapura 3000	Including associated mudmat
Jumpers	-	Sapura 3000	Connects the PLETs and manifold

Status

Project completed in April 2012





● *In-house* ● *Others*

Mumbai High South Redevelopment Phase-II (MHSRD-II) Project

T&I | Oil and Natural Gas Corporation Limited (ONGC) | Mumbai High South, Offshore Mumbai, India | 71 - 78 meters | Feb 2008 – May 2009 Completed

Scope

	E	P	C	I	C
Topside	●	●	●	●	●
Jacket	●	●	●	●	●

Salient Details

Item	Description	Installation	
RS-15 WHP Topside	1,344 MT	Sapura 3000	
RS-15 Jacket	1,800 MT	Sapura 3000	4-Legged
RS-16 WHP Topside	1,258 MT	Sapura 3000	
RS-16 Jacket	1,760 MT	Sapura 3000	4-Legged
RS-17 WHP Topside	1,970 MT	Sapura 3000	
RS-17 Jacket	1,820 MT	Sapura 3000	4-Legged

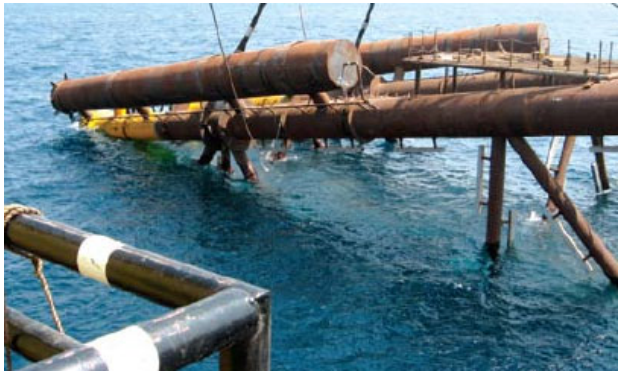
Status

T&I of WHPs completed in May 2009

**Larsen & Toubro as the main contractor*

● *In-house* ● *Others*







Angel Platform Topside Floatover Project (Central Processing Platform)

T&I	Woodside Energy Ltd	Angel Gas Field Development, North West Shelf, Western Australia	80 meters	April 2008 - June 2008 Completed

Scope

	E	P	C	I	C
Topside	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
*Topside module	7,500	HLV Black Marlin	Floatover by Sapura

Status

T&I of topside module completed in June 2008

** Module fabricated at Batam Yard, Indonesia by Malaysia Marine Heavy Engineering (MMHE)*









● *In-house* ● *Others*

Bayu-Undan Floatover of Drilling, Production and Processing (DPP) platform and the Compression, Utilities and Quarters (CUQ) platform

T&I | ConocoPhillips Australia Pty Ltd | Bayu-Undan Field, Timor Sea | 80 meters | June 2003 - August 2003 Completed

Scope

	E	P	C	I	C
Topside	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
* DPP	15,000	HLV Blue Marlin	Floatover by Sapura
* CUQ	11,500	HLV Blue Marlin	Floatover by Sapura

Status

T&I of topside modules completed in August 2003

** Module fabricated at Ulsan Yard, Korea by Hyundai Heavy Industries*

● *In-house* ● *Others*







SALIENT PROJECT DETAILS - UNDER TENDERING

SK408W Jerun Development Project

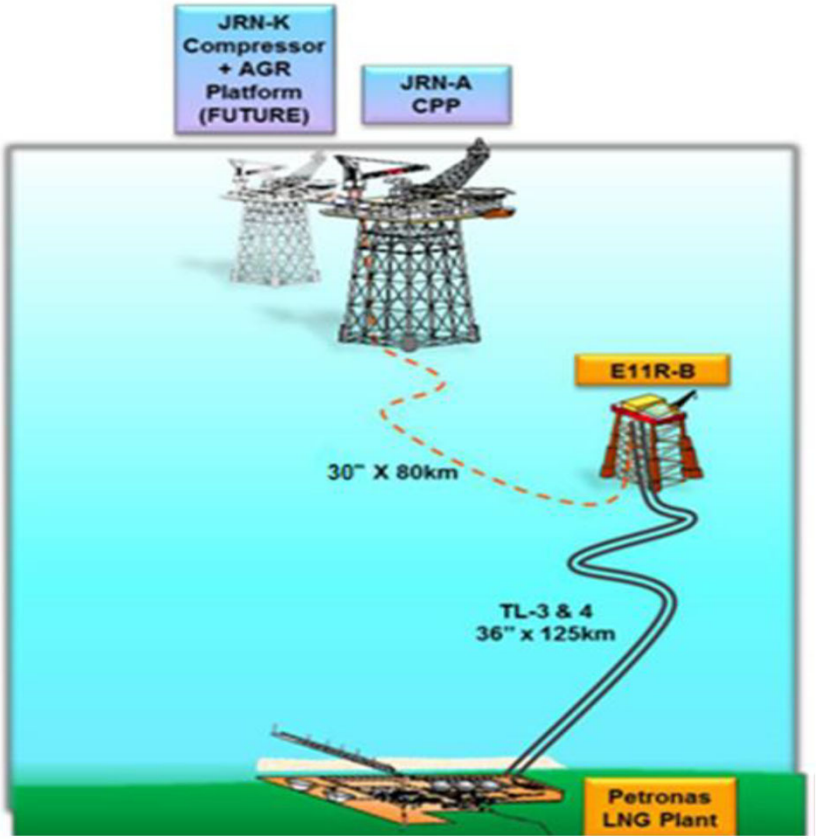
EPCIC	SapuraOMV Upstream (Sarawak) Inc.	Block SK408, Offshore Sarawak, Malaysia	87 meters	Under Bidding Est. Award: Jan 2021

Scope

	E	P	C	I	C
Topside	●	●	●	●	●
Jacket	●	●	●	●	●
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
JRN-A CPP	16,500 MT	3rd Party Vessel/ Sapura FLB -1	Floatover Incl. LSF, Wellhead Deck & Flare
JRN-A Jacket	8,056 MT	Under Pan Malaysia	8-legged
Piles	6,000 MT	Under Pan Malaysia	12 x Piles
Export Pipeline	80 KM	Under Pan Malaysia	Diameter: 30”



● *In-house* ● *Subcontractor (Worley)*

HI Development Project

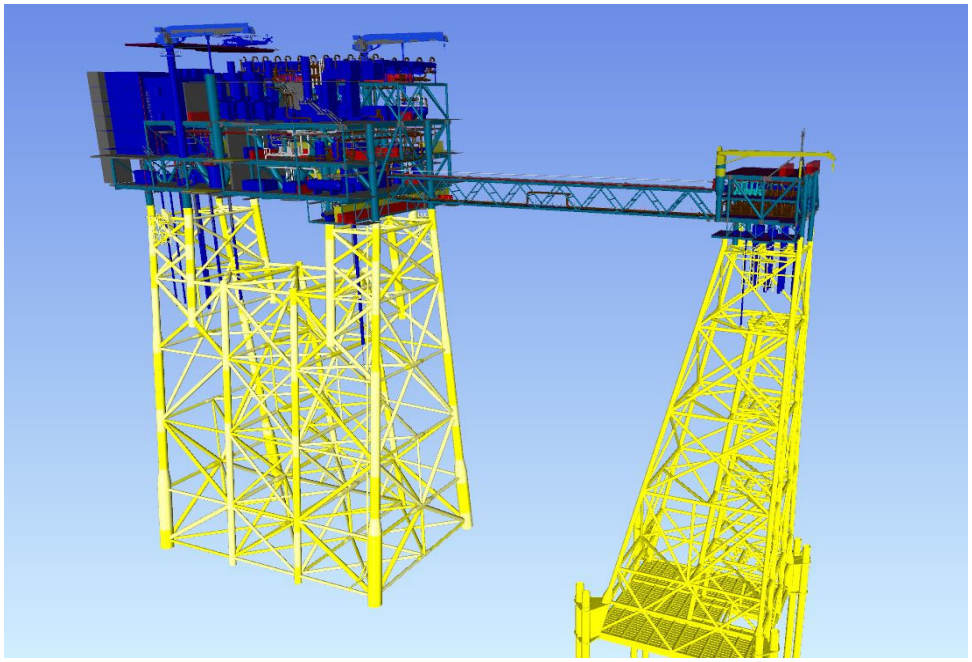
FEPCIC	Shell Nigeria (SPDC)	OML 144 HI Gas Field, Niger Delta, Nigeria	100 - 108 meters	Competitive FEED Won. FEED Completed. Under Bidding. Est. Award: May 2021

Scope

	E	P	C	I	C
Topside	●	●	●	●	●
Jacket	●	●	●	●	●
Pipeline	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
WHP Topside	1,277 MT	Sapura3500	
WHP Jacket	4,200 MT	Sapura3500	4 Legged
WHP Piles	2,500 MT	Sapura3500	8 x Piles
PP Topside	15,466 MT	3rd Party Vessel	Floatover
PP Jacket	15,643 MT	Sapura3500	8 Legged
PP Piles	8,000 MT	Sapura3500	16 x Piles
Export Pipeline	30 KM	Sapura900	Diameter: 20”



- *Sapura is competing in this FEED competition with JV partners Samsung & Desicon – known as SDS Consortium*
- *Doris Engineering is subcontracted as Engineering Consultant for SDS*

In-house *Samsung Heavy Engineering (Nigeria)* *Subcontractor (Doris France, Doris Nigeria)*

Crux Development Project

EPCIC	Shell Australia Pty Ltd	Crux Gas Field, Offshore Australia	170 meters	Prospect. Qualified for Topside and Jacket.

Scope

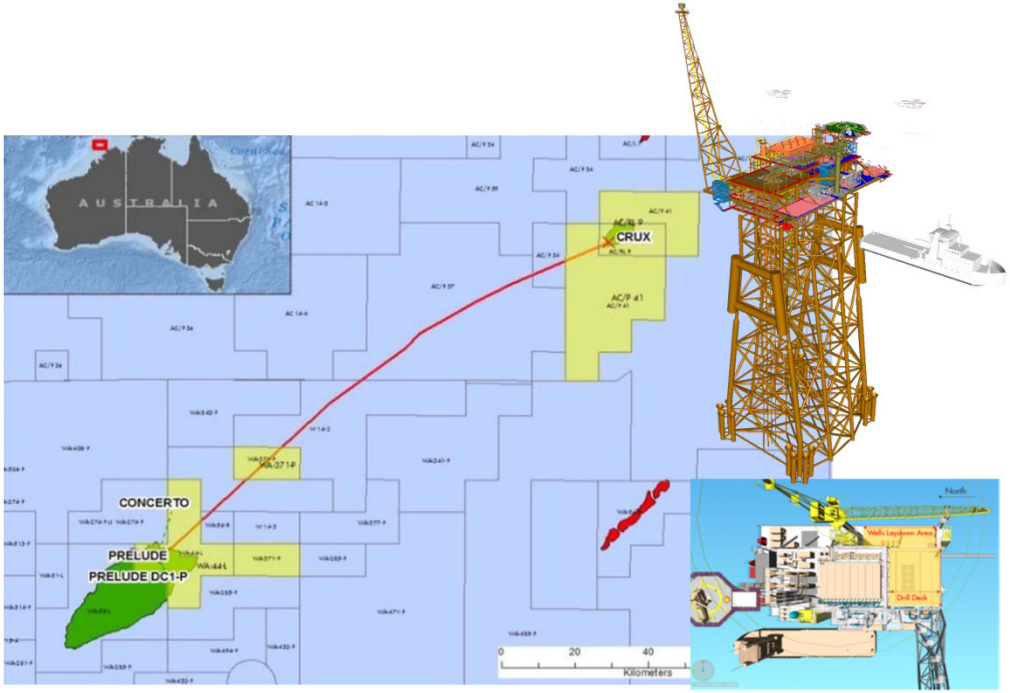
	E	P	C	I	C
Topside	●	●	●	●	●
Jacket	●	●	●	●	●
Pipeline	-	-	-	-	-

Salient Details

Item	Description	Installation	Remarks
Topside	11,172 MT	3rd Party Vessel	Floatover
Jacket	19,528 MT	3rd Party Vessel	8-legged
Piles	15,533 MT	3rd Party Vessel	16 x Piles

Status

- Sapura qualified for Topside and jacket.
- Revised topside tender due in Q3-21.



● *In-house* ● *Subcontractor (Wood-KBR)*

Al-Shaheen Gallaf Batch 3 (EPCIC 06)

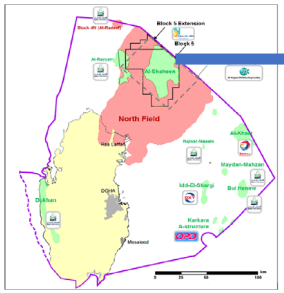
EPCIC	North Oil Company (NOC Qatar)	Al-Shaheen Field (North Field), Offshore Qatar	60 meters	Under Bidding. Est. Award: May 2021

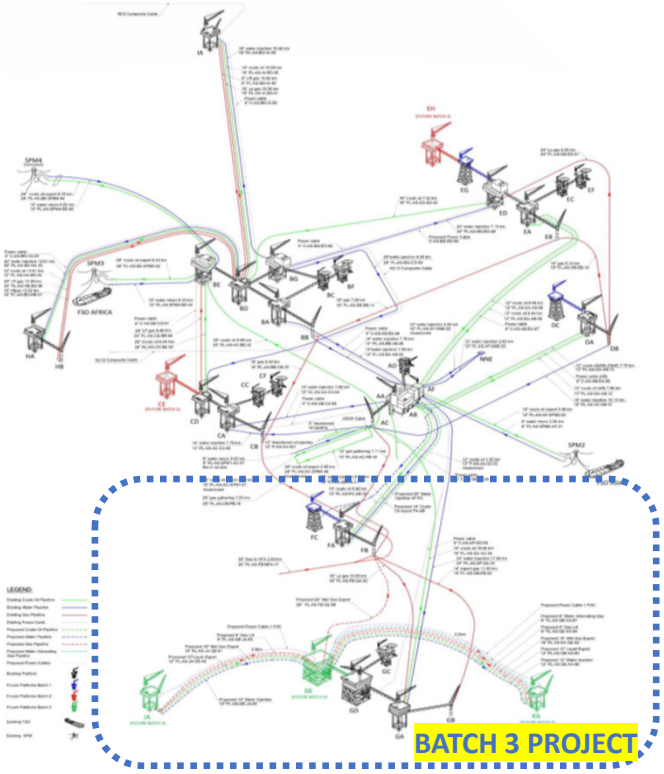
Scope

	E	P	C	I	C
Topside	●	●	●	●	●
Jacket	●	●	●	●	●

Salient Details

Item	Description	Installation	Remarks
CPP Topside	16,143 MT	3rd Party Vessel	Floatover
CPP Jacket	4,200 MT	3rd Party Vessel/ Sapura FLB -1	Launch
CPP Piles	7,693 MT	3rd Party Vessel	





● *In-house* ● *Subcontractor (Worley)*

CONSOLIDATED TRANSPORTATION & INSTALLATION EXPERIENCE

Key Transportation & Installation Experience - Facilities

Project Name	Client	Location	Water Depth (m)	Topsides Weight (MT)			Jacket Weight (MT)			Year	Status
				CPP	WHP	Other Module	CPP	WHP	Other Module		
Kasawari WHP T&I Project	Malaysia Marine & Heavy Engineering (MMHE)		108		2,300			4,650		2020 - 2021	Ongoing
Yunlin Offshore Wind Farm	Yunneng Wind Power Co. Ltd.		34						80,000	2019 - 2021	Ongoing
Mizton Phase 1	ENI Mexico		100		2,924			1,785		2018 - 2019	Completed
Bokor CPP Project	Petronas Carigali Sdn. Bhd. (PCSB)		67				5,188			2018 - 2019	Completed
Bunga Pakma Development Project	Repsol Oil & Gas Malaysia Limited		56			870			830	2016 - 2017	Completed
F12 Gas Development Project	Petronas Carigali Sdn. Bhd. (PCSB)		50		2,088			4,305		2016 - 2017	Completed
Bardegg-2 & Baronia EOR Development Project	Petronas Carigali Sdn. Bhd. (PCSB)		100		2.000	300		1,950		2016	Completed
Akal G Tripod and Bridge	PEMEX		400 - 600			318			4,000	2016	Completed
Additional Development of Vasai East Project	Oil & Natural Gas Corporation Ltd. (ONGC)		47 - 53		3,368			3,900		2015	Completed
Tembikai (Oil) Development	Vestigo Petroleum Sdn Bhd		70			470			570	2014 - 2015	Completed
Thai Binh-Ham Rong Project – Phase 1	PTSC Offshore Service		30		787	107		541		2014 – 2015	Completed

Key Transportation & Installation Experience - Facilities

Project Name	Client	Location	Water Depth (m)	Topsides Weight (MT)			Jacket Weight (MT)			Year	Status
				CPP	WHP	Other Module	CPP	WHP	Other Module		
MB Platform & Pipeline Contract	BG India		100		1,000			500		2014 - 2015	Completed
Rekayasa – Lampung Mooring Tower Platform Project	PT Rekayasa		20			700			520	2013 - 2014	Completed
EVA Trunkline Project, JDA	Trans Thai (Malaysia) Sdn Bhd		60			1,000			700	2013 - 2016	Completed
Diamond Development Project	PC Vietnam Limited (PCVL)		90		1,344			2,136		2013 - 2014	Completed
Manora Field Development	Mubadala Petroleum (Thailand) Ltd.		44		2,400			570		2012 - 2014	Completed
Integrated Gas Development Project, North Malay Basin	HESS Exploration and Production Malaysia B.V.		55		790			753		2012 - 2013	Completed
Yetagun Phase 4 Project	Petronas Carigali (Hong Kong) Ltd		100					5,000		2011 - 2012	Completed
Mumbai High South Redevelopment Phase-II (MHSRD-II) Project	Oil and Natural Gas Corporation Ltd (ONGC)		78		4,572			5,380		2008 - 2009	Completed
Angel Platform Topside Floatover Project	Woodside Energy Ltd		80	7,500						2008	Completed
Bayu-Undan Floatover of DPP and CUQ Platform	ConocoPhillips Australia Pty Ltd		80	15,000		11,500				2003	Completed

Key Transportation & Installation Experience - Pipeline

Project Name	Client	Location	Water Depth (m)	Pipeline		Year	Status
				Dia.	Total Length (km)		
Kirinskoye GCF Development Project	Superstroy XXI Limited Liability Company		70 - 500	10”	4.1	2020	Completed
Layang Development Project	JX Nippon Oil & Gas Exploration (Malaysia) Ltd		90	10”		2019 - 2021	Ongoing
Pipeline Services at Gulf of Suez District (6 Pipelines)	Gulf of Suez Petroleum Company (GUPCO)		40	6”-18”	57	2018 - 2019	Completed
Southern Swamp Sales Gas Evacuation Project	Shell Petroleum Dev. Company of Nigeria		70	16”	18.4	2018 - 2019	Completed
Mizton Phase 1	ENI Mexico		100	10”	22	2018 - 2019	Completed
Pipeline and Terminal Works for Fifth Oil Berth Project	Mumbai Port Trust		130	42”	5.25	2018 - 2019	Completed
Bunga Pakma Development Project	Repsol Oil & Gas Malaysia Limited		56	24”	10	2016 - 2017	Completed
Guntong Pipeline Year 2014-2016	ExxonMobil Exploration and Production Malaysia Inc		64	12”	11.5	2016 - 2017	Completed
F12 Gas Development Project	Petronas Carigali Sdn. Bhd. (PCSB)		50	24”	13.7	2016 - 2017	Completed
Additional Development of Vasai East Project	Oil & Natural Gas Corporation Ltd. (ONGC)		47 - 53	6”, 8”, 18”	36.3	2015	Completed
Kalimantan Jawa Gas Onshore and Offshore Pipeline	PT PGas Solution		70	14”	199	2014 – 2015	Completed

Key Transportation & Installation Experience - Pipeline

Project Name	Client	Location	Water Depth (m)	Pipeline		Year	Status
				Dia.	Total Length (km)		
Nam Con Son 2 Gas Pipeline Project – Phase 1	PetroVietnam Gas Corporation		150	26”	151	2014 – 2015	Completed
Thai Binh-Ham Rong Project – Phase 1	PTSC Offshore Service		30	12”	18.4	2014 – 2015	Completed
MB Platform & Pipeline Contract	BG India		100	6”, 14”	34	2014 - 2015	Completed
EVA Trunkline Project, JDA	Trans Thai (Malaysia) Sdn Bhd		60	24”	75	2013 - 2016	Completed
Diamond Development Project	PC Vietnam Limited (PCVL)		90	10”	18	2013 - 2014	Completed
Manora Field Development	Mubadala Petroleum (Thailand) Ltd.		44	8”	4	2012 - 2014	Completed
Liu Hua 4-1 Oil Field Project	China Offshore Oil Engineering Co. (COOEC)		300	22”	10.4	2012	Completed
SKO Pipelines and Facilities Rejuvenation for Miri (PL370) and Bintulu (PL364 & PL366)	Petronas Carigali Sdn. Bhd. (PCSB)		50	12”, 16”, 18”	97	2012	Completed
T&I for Puteri Pipeline Restoration (Pipe-In-Pipe)	Newfield Penisula Malaysia Inc.		60	8”, 12”	13.5	2011	Completed
Gorgon Upstream DOMGAS	Chevron		200	20”	90	2010 - 2013	Completed