

# **Company Profile**

# **Specialises in Marine & Offshore Engineering & Construction Projects**

Our expertise lies in providing value chain to Engineering, Procurement and Installation and Commissioning (EPIC) of marine and offshore projects

**FOURCASK PTE LTD**MARINE, OFFSHORE, SUBSEA AND RENEWABLES

https://fourcask.com/



Winner! Fourcask Pte Ltd

Best Offshore Project Management Firm 2024



#### **ABOUT US**

#### **Company Founder**

Mr Shawn Wong began his career in the Oil & Gas Industry with Stolt Comex Seaway Pte Ltd in 1998 as a management trainee and later held various technical, operational, and commercial roles in the legacy Stolt Comex Seaway/Acergy now known as Subsea 7.

He joined Bumi Armada Berhad in 2011 and spearheaded the Subsea Construction Business Unit as the Senior Management of Bumi Armada, holding the position as Vice President.

During his tenure with Bumi Armada between 2011 to 2020, he spearheaded the construction of the Armada Installer and the Armada Constructor, brought both barges into the Caspian Sea, tendered, won and executed various subsea construction for Dragon Oil, Petronas and Lukoil between 2010 to 2018 with a contract value of ~ USD 1billion in the Caspian Sea.



#### **ABOUT US**

**FOURCASK** is a company built on years of experience in the marine, offshore oil and gas industry for the execution of both greenfield and brownfield construction projects around the world.

- The company is registered in July 2020, based out of Singapore and led by a seasoned and reputable Management Team with over 15 to 20 years of experience executing projects internationally.
- We support our clients in:
  - ✓ Unlocking their assets value from sales & marketing, forming partnership/alliances to tender support and execution of offshore construction projects.
  - ✓ Bringing value to our customers via partnership and working in collaboration with our customer globally.



# **OUR GROWTH**



#### **OUR GROWTH TRANSITION**





Looking back where we started in 2020 from a humble home work desk, and started up a small project office in 2021.

In 2023, we moved to a new and comfortable work environment to improve productivity to ensure continual success of the company.

Today we have a team of 40 personnel working on various engineering and construction projects.









# INTERNATIONALISATION AND SUSTAINABILITY TO DRIVE OUR GROWTH

Going global is the new norm as the key engine of growth so as to stay ahead by continuing to expand our global footprint. In our internationalisation journey, we are proud of our achievement so far where we had setup our offices in Singapore and Malaysia.

# **Geographical locations** of projects

- Offshore Construction
   Project Management &
   Engineering
- ★ Engineering



#### **OFFICES CONTACT INFORMATION**



#### **Fourcask Pte Ltd**

3791 Jalan Bukit Merah 08-12, E-centre Redhill, Singapore, 159471



#### **TNIX Offshore Marine Sdn. Bhd.**

C-10-1 Megan Avenue 2, No. 12 Jalan Yap Kwan Seng, Kuala Lumpur Wilayah Persekutuan, Malaysia, 50450

# WHAT WE DO



#### **OUR PEOPLE**

FOURCASK - Personnel that made us who we are.













We support our client at every stage of the project lifecycle with a wide range of highquality specialist and project services, all backed by our expertise across sectors, geographies and capabilities.

#### **FOURCASK PMT & ENGINEERING SERVICE**

**FOURCASK** are trusted project partners who support our Client's for their offshore construction projects.



We support our client on their projects via:

- 1. A partnership/subcontract arrangement to undertake the projects with our expertise and jointly execute marine and offshore projects or;
- We support our Client by undertaking engineering design work to support their engineering requirement;
- 3. We provide complete **Project Team Augmentation** (Outsourcing) which integrates seamlessly with our client existing team, minimizing the learning curve and avoiding potential disruptions that might occur when hiring of individuals

#### **FOURCASK CORE AREA OF EXPERTISE**







#### Marine Vessels Newbuilt, Upgrade, Sale, Charter

- Offshore Support Vessels
- Diving Support
- Pipelay
- Heavy Lift
- ROV Support
- · Cable-Lay

#### Nearshore / Shallow Operations

- Nearshore Shallow Water Works
- ✓ Pre-trenching
- ✓ Hold back anchor installation.
- Pull winch and beach pull cable deployment.
- ✓ Pipeline Buoyancy
- ✓ Beachpull operations / Shallow Water Pipelay
- ✓ Backfilling.
- ✓ Pipeline Post trenching

#### Marine Offshore Operations

- Offshore Installation
  - ✓ Pipelines
  - ✓ SURF
  - √ Jackets & Topsides
  - ✓ FPSOs
- ✓ Subsea Structures
- ✓ Cables
- Subsea Inspection, repair and Maintenance
- Dredging & Trenching
- · Module Transportation
- · Pre-Commissioning
- Decommissioning

#### Marine and Terminals

- Sheet Piling
- Berthing Dolphins
- Reclamation
- Dredging

#### Renewables

- · Wind Turbine Installation
  - ✓ Fixed
- ✓ Floating
- · Electric Cable Installation
- · Trenching & Rock-Dumping



#### **FOURCASK SPECIALISATION**



**Project Management** 



Offshore Pipeline Design



Offshore and Subsea Structures



Offshore Pipelay,
Diving, ROV &
Trenching Operations



SURF (Subsea Umbilical, Riser and Flowline)

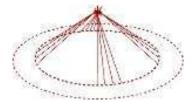
SURF



Marine & Offshore Construction



Marine Logistics Coordination



**Offshore Moorings** 



Naval, Marine & Floating System

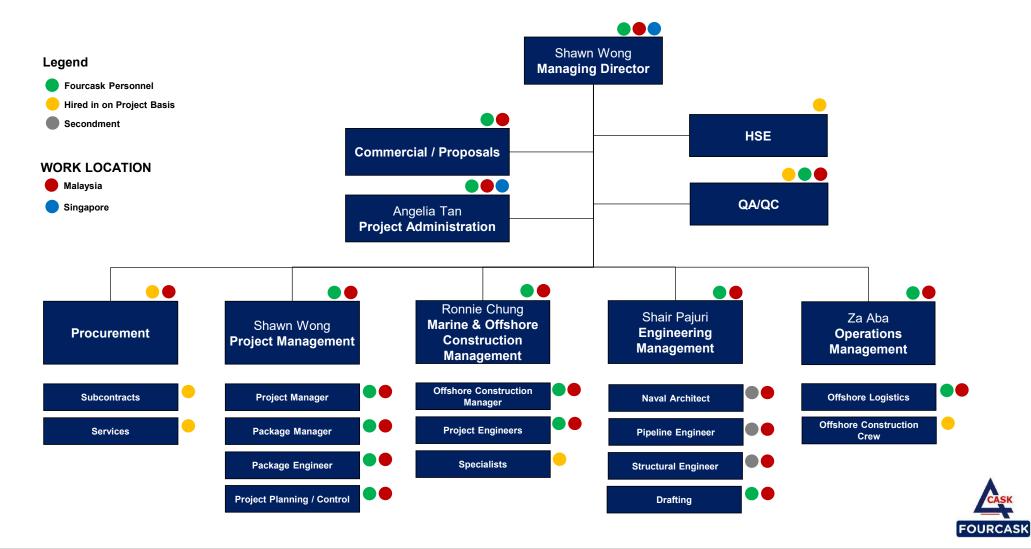


Subsea Strategic Equipment

# FOURCASK ORGANISATION & EXPERIENCE



#### **FOURCASK COMPANY ORGANISATION**



### **FOURCASK PERSONNEL CAPABILITY MATRIX**

	Wa	iter	De	oth								E>	pe	rien	ce											Reg	gion	ıs/C	ou	ntry	of	Exe	cut	ion			
Personnel Capability Matrix	Shallow 0m to 25 m	Conventional 25m to 500 m	Deepwater 500m – 1000 m	Deepwater > 1000 m	Methods / Installation Procedures	Installation Analysis	Installation Aid / Appurtenance Design	Package - Linepipe Procurement	Package - Linepipe Coating	Package - Field Joint Coatings	Package - Pipeline Welding & NDT	Package – Fittings / Forgings	Package - Subsea Structures Design & Fabrication	Package – Moorings / FPSO & SPM	Package - Flexible / Umbilicals / Cables	Transportation/ Loadout / Floatover	Heavylift Installation / Topside & Jackets	Lead / Technical Management	Ops / Construction Management	Site / Field Engineer	Offshore Management / Superintendent	Project Management	Malaysia	Indonesia	Thailand	Vietnam	China	India	Middle East	Deep West Africa	North Sea	Shallow GOM	Deep GOM	Mediterranean	Brazil	Caspian Sea	Russia - Sakhalin
Project Management	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•		•		•	•	•
Operation Department	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•			•	•					•	
Marine Construction Dept	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•		•					•		•	
Engineering Department	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					•	•	•	•	•	•	•	•					•		•	
Project / Field Engineers	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							•		•	

#### **FOURCASK PERSONNEL NOTABLE PROJECT EXECUTED**



Murphy Kikeh (Pipeline)



Shell Gemusut Kakap (SURF)



ONGC D1 FPSO (Riser & Mooring)



Lukoil Caspian (Various Pipelines)



TRNC Water Pipeline (HDPE Pipeline)



Shell Ormen Lange (MEG Pipeline)



Petronas Turkmenistan (Various Pipelines)



Petronas Turkmenistan (3 Topside Floatovers)



Petronas Turkmenistan (3 Jackets)

## **FOURCASK PERSONNEL NOTABLE PROJECT EXECUTED**



CPOC Block B17 (Jacket & Topside)



Trans Anatolia Natural Gas (Pipeline)



Petronas Bekok (ZeePod Structures)



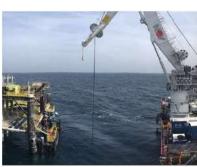
Brunei Shell Salman (Flexible Pipeline)



CNOOC Lingshui 17-2 (SURF)



ENI OCTP (SURF / Pipeline)



Qatar Petroleum NFA (Various Pipelines)



Idemitsu SVDN (Topside Floatover)



Petronas Anjung (CRA Pipeline)

## **FOURCASK PERSONNEL NOTABLE PROJECT EXECUTED**



Petronas Baram (Bridge Replacement)



Petronas SK316 (Pipeline)



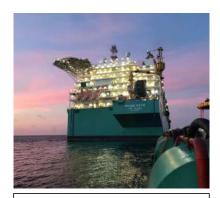
Petronas East Cendor (Flexible Pipeline)



Petronas Bokor (Pipeline)



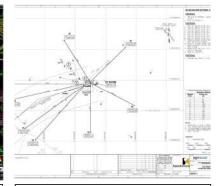
Petronas Jitang (FPSO Ledang Relocation)



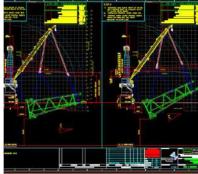
Petronas Kebabangan (PFLNG 1 Relocation)



Mubadala Manora (Field Development)



Petronas Kepodang (Field Development)



Petronas NMB (Phase-2 Field Development)

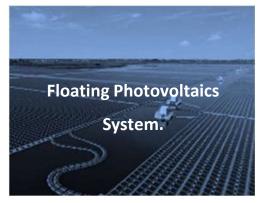
## **FOURCASK ENGINEERING**

#### **FOURCASK ENGINEERING DESIGN CAPABILITY**









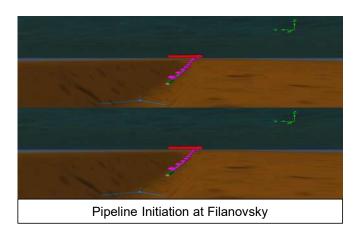
Pipeline Design Basis
Pipeline Stress Analysis
Pipeline On Bottom Stability Analysis
Pipeline Free Span Analysis
Pipeline Crossing Analysis
Pipeline On Bottom Roughness Analysis
Pipeline Thermal Expansion Analysis
Pipeline Global Buckling Analysis
Pipeline Risk Assessment
Pipeline Cathodic Protection Calculation
Pipeline Wall Thickness Calculation
etc

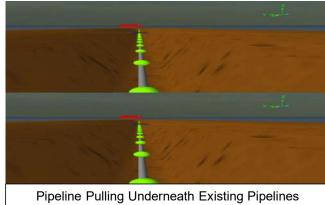
Structure Design Basis
In service analysis
Loadout analysis
Lifting analysis
Tranportation analysis
etc

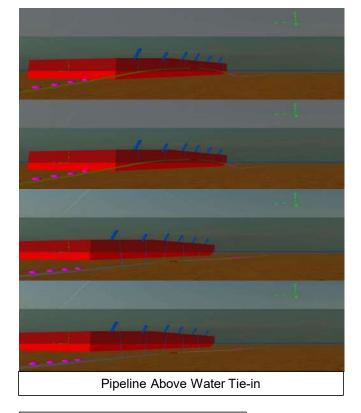
Pipelay analysis
Cable lay analysis
Lifting and Rigging design calculation
Lowering Analysis
Tranportation analysis
Barge strenght analysis
Grillage and Seafastening design
Motion analysis
Mooring Analysis
stalk on analysis
Jacket Upending analysis
etc

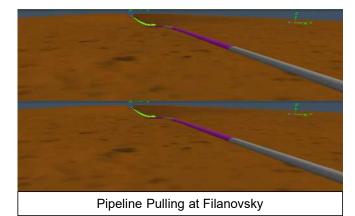
Floating PV Design
Floating PV Feasibility Study
Floating PV Constructability
Subsea Cable Design
Floating Wind Design
Floating PV Anchor Design
etc

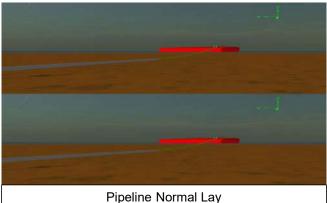
#### **ENGINEERING ANALYSIS – PIPE PULLING IN TRENCH**









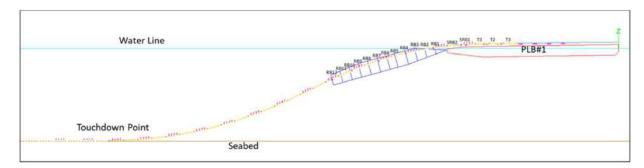


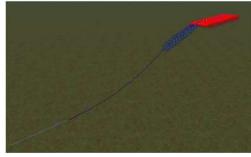
Software:

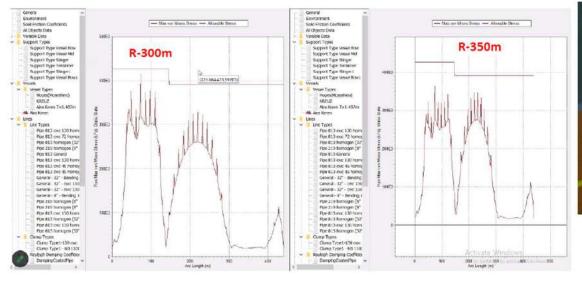
- Pipelay Orcaflex / Offpipe
- Transportation Moses
- Mooring Orcaflex / Moses
- Structure SACS / StaadPro

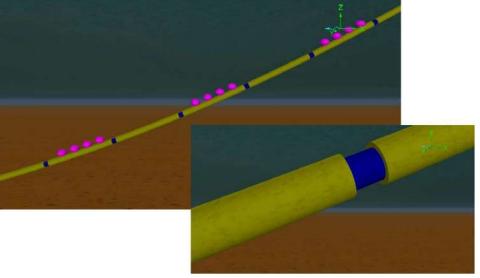


#### **ENGINEERING ANALYSIS – PIPELAY ANALYSIS**

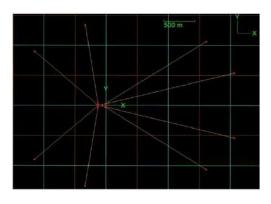


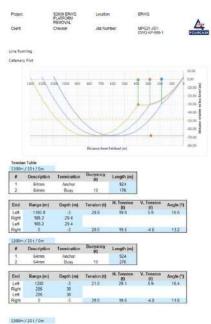






#### **ENGINEERING ANALYSIS – MOORING ANALYSIS**





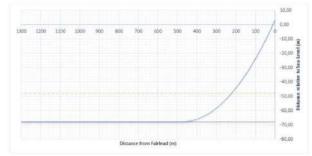


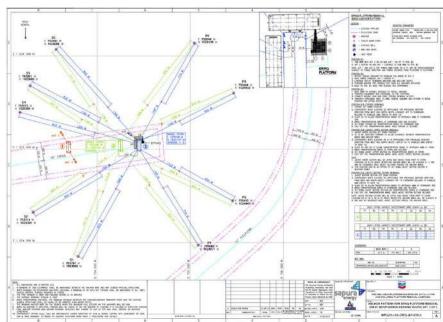
Component # 1

Description:	64mm Wire Rope (New)		
Length:	0 m	EA:	22954t
Weight:	14.8 kg/m	EA2:	Ot
MBL:	270.3t	EA3:	Ot
Seabed Friction:	0	Storm:	Ot

Description:	Pennant		
		EA:	22954t
Weight:	14.8 kg/m	EA2:	Ot
MBL:	270.3t	EA3:	Ot
Seabed Friction	0	Storm:	Ot

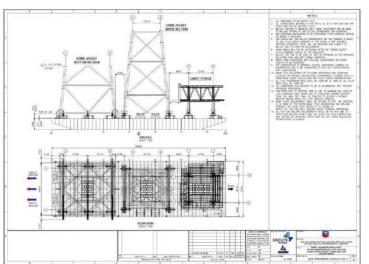
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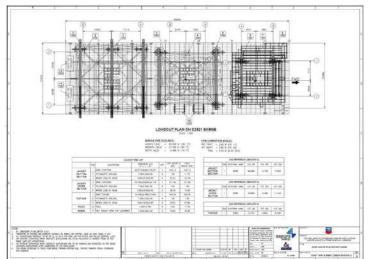


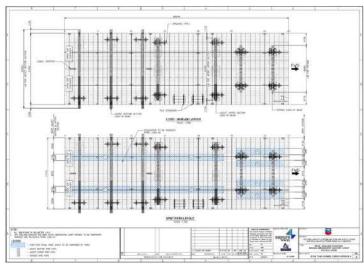


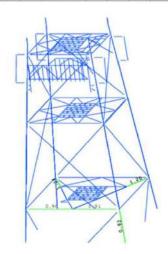


#### **ENGINEERING ANALYSIS – TRANSPORTATION ANALYSIS**

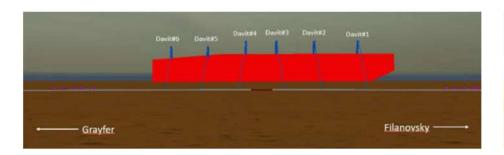


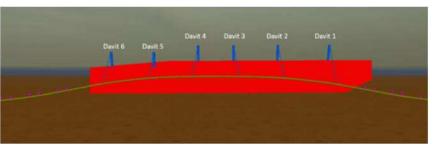


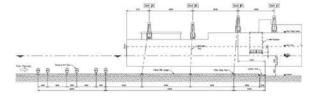


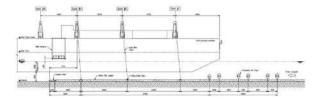


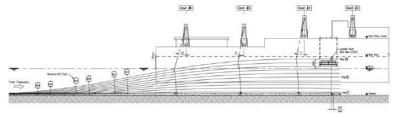
#### **ENGINEERING ANALYSIS – AWTI ANALYSIS**









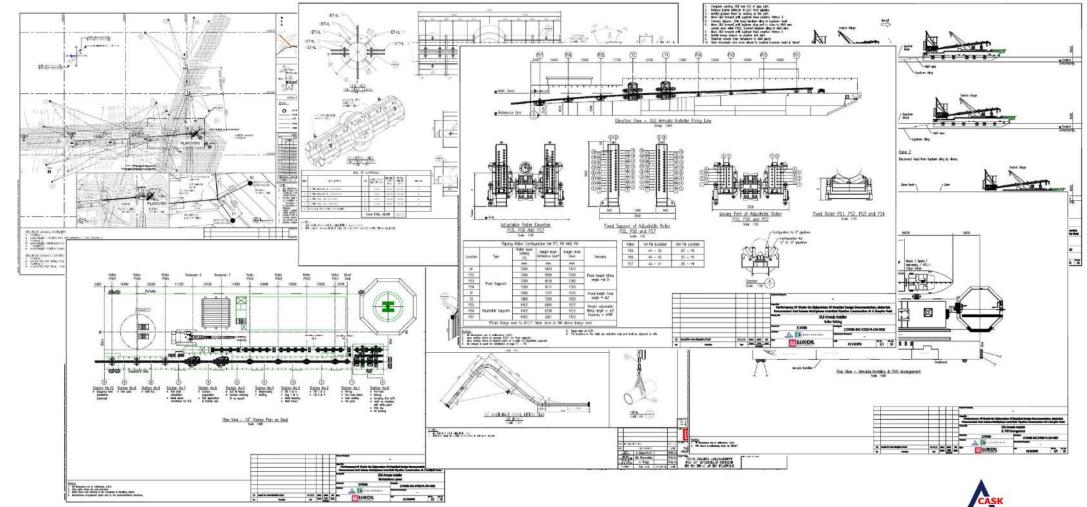


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5kp 1	5.33	8.33	-2.26	5.58	414	-7.15	1.44	1.66	47.26	11.77	5.15	-5.54	8.63
Ping 7	6.26	6.47	4.07	6.31	449	431	6.0	2.44	4.45	11.94	6.85	417	-0.44
Stee 6	0.01	0.00	4.91	1.30	478	4.30	7.00	8.33	5.66	26.00	9.00	4.00	= 44
Shart .	0.35	0.17	18.79	1.08	1.00	-4.23	7.72	1.52	-4.01	26.02	9:03	0.32	427
Seg 5	0.35	9.57	438	7.55	577	-2.55	9.47	4.05	3.55	15.11	10.15	-2.85	4.07
Strap 6	0.42	9.61	-6.61	3.03	6.63	-1.8b	1.17	6,66	-3.14	29,14	30.06	142.67	0.81
Wee T	0.84	0.85	0.61	6.63	7.98	6.16	10.0%	16.42	12.60	28.48	13.88	441	0.28
Day 8	633	0.69	19.5	19.37	1.06	0.12	15:33	6.22	4.46	25.34	12.63	0.88	0.71
Swp.3	0.80	8.72	1.75	35.50	3.18	3.14	15.56	7.56	10.64	17.53	15.87	1,77	4.32
Trace III - Final."	0.46	17.0	3.86	16.13	66.64	2:31	32.19	8.76	9.19	09:95	24.87	2.90	-2:13

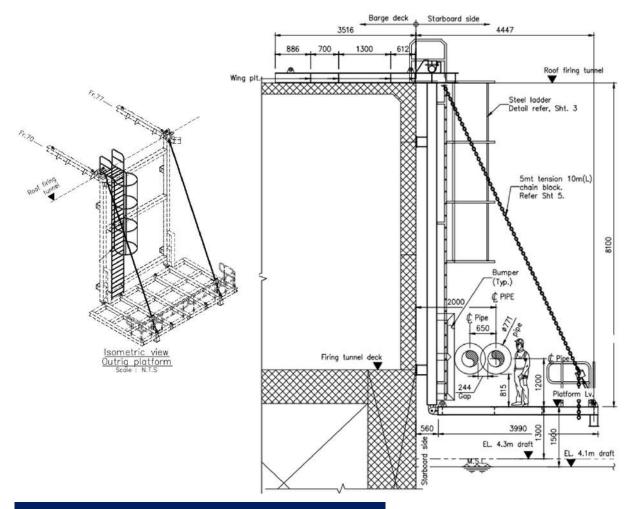
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tep 0 - inical	0.01	0.02	-7.98	0.00	5.33	-7.99	0.00	4.76	-7.99	0.00	4.19	-7,99	0.01
Step 1	0.15	0.23	-7.41	11.52	5.95	-7.21	8.89	4.93	-7.19	3.59	4,34	-2.28	0.02
Step 2	0.15	0.34	-£.70	L2.8i	5.61	-4.17	7.85	4.32	-6.06	9.21	4.61	-6.11	-0.40
Step 3	0.20	0.41	-5,91	13.53	5.37	-5.11	9.17	5.55	-4.92	6.71	4.77	-4.95	-0.28
Step 4	0.25	0.48	-5,11	14.03	6,31	-4.03	8.58	6.04	+3.79	5,27	5.44	-3.75	-0.11
Step 5	0.10	0.53	4.11	14.53	6.75	-2.55	9.11	8.55	-2.65	7.85	5.00	-2.42	10.04
Step 5	0.35	0.58	3.50	14.91	7.17	-1,92	9.70	7.24	-1.51	7.43	6.66	-1.45	0.15
Step 7	0.40	0.62	-2.68	15.12	7.71	-0.85	20.34	8.02	0.37	7.12	7.47	-0.30	0.32
Step 6	0.49	0.67	-1.27	15.30	2.32	0.15	15.77	8.07	0.62	17.72	8.30	0.56	.0.21
Step 9	0.56	0.72	-1.01	17.40	1.91	3.18	20.37	9.88	1.79	17.73	9.43	1.79	-0,25
Rep 10 - Final	0.64	0.74	-0.25	19.79	9.74	2.27	22.66	11.16	2.96	17.04	10.03	3.00	-0.09

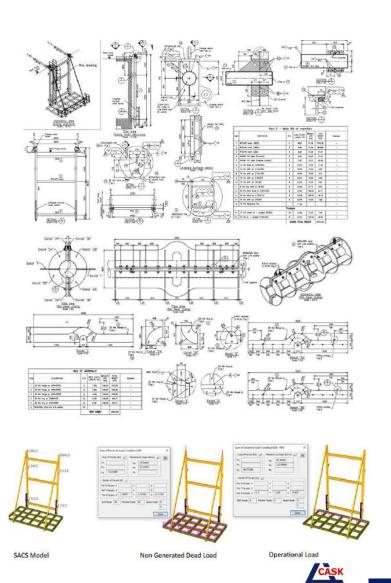
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## **DESIGN OF INSTALLATION AIDS**

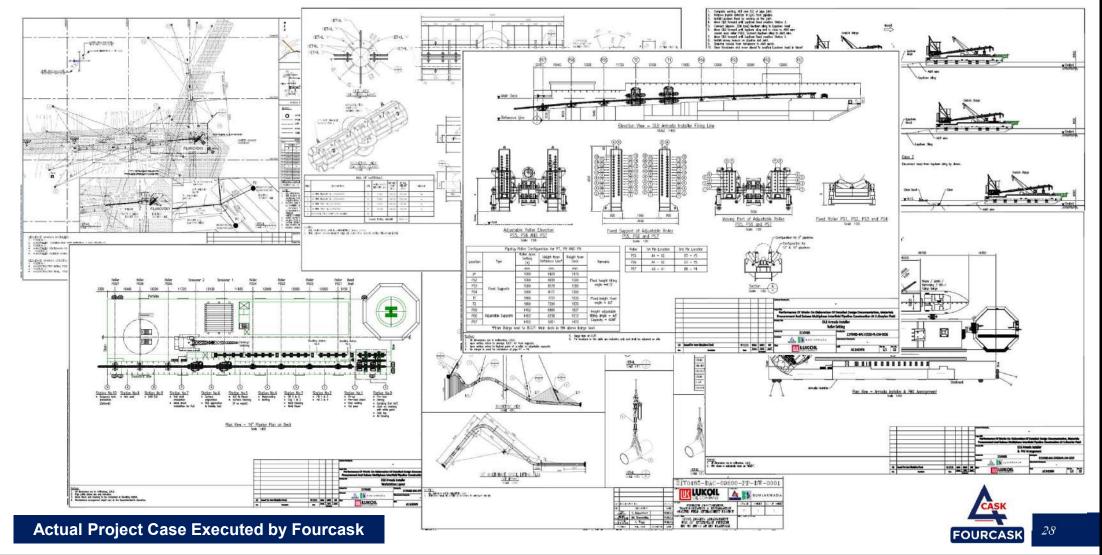


#### **DESIGN OF INSTALLATION AIDS**





### PROJECT EXECUTION DRAWINGS



# **OUR BUSINESS MODEL**



#### **FOURCASK BUSINESS MODEL**

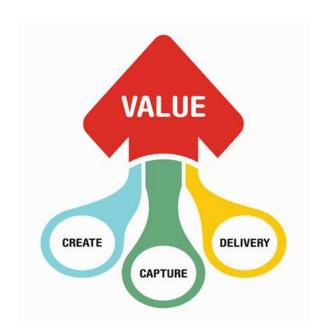
# By working with Fourcask, we aim to bring the following advantages;

- Efficiency on the way the business is conducted
- Help our customer to develop challenging projects, reduce cost and thrive in current market condition

#### **Fourcask Commitment**

- Only uses experience personnel on all of our projects
- Key focus Plan, Execute and always Deliver achieving both cost and schedule drivers achieving both quality and safety objective
- Always look out for our Customer and Client

"Project Management & Engineering drive changes constructively. With our expertise and personnel involvement, we create order from disorder in an ever changing project execution environment".



#### FOURCASK - WORKING IN A COLLABORATIVE APPROACH

It is evident that the industry has now focus on local content, engineering solutions, effective management and risks management.

Project Team Augmentation via collaboration between interested parties are leading to the best project outcomes and can bring the best elements of traditional EPIC model to one that is more collaborative lead to an efficient way of project delivery.

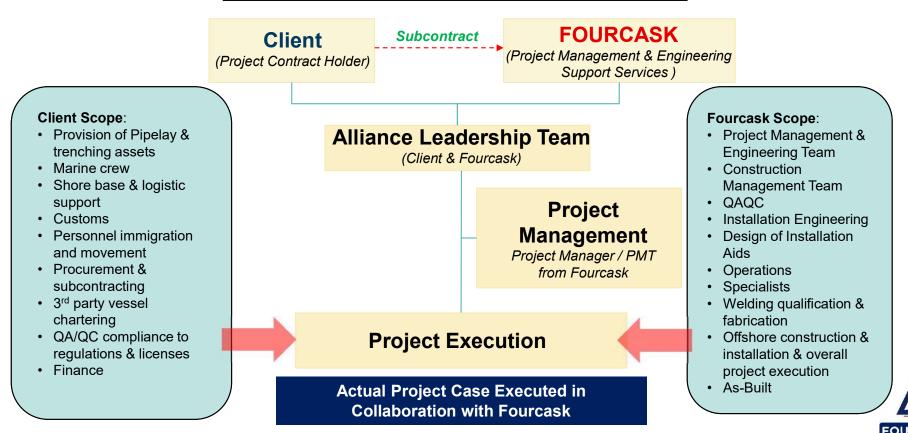


# PROJECT CASE STUDY – (PROJECT TEAM AUGMENTATION COLLABORATIVE APPROACH)

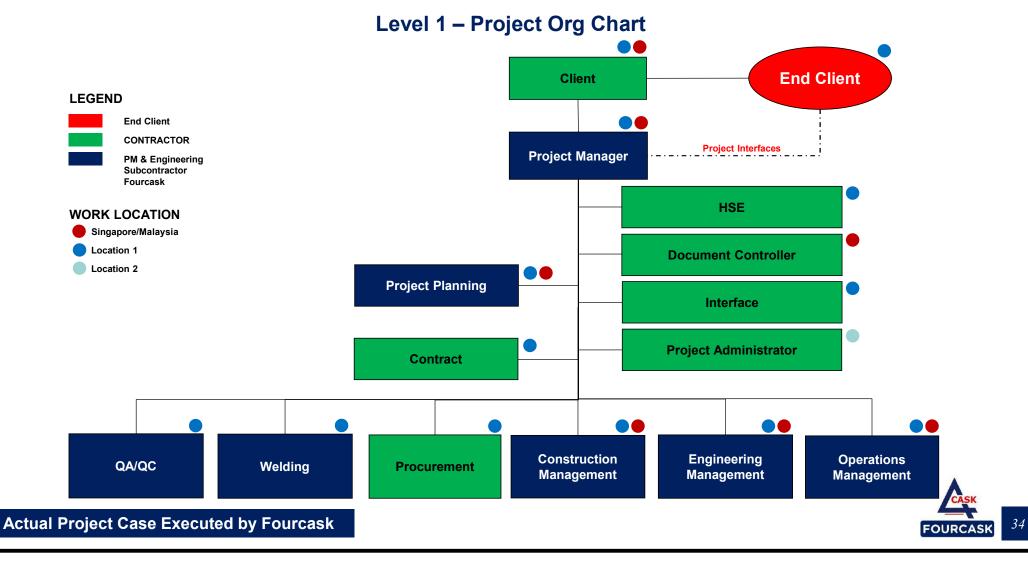
#### PROJECT PARTNERSHIP STRUCTURE WITH CLIENT

International Offshore Construction – Project Completed in 14 months

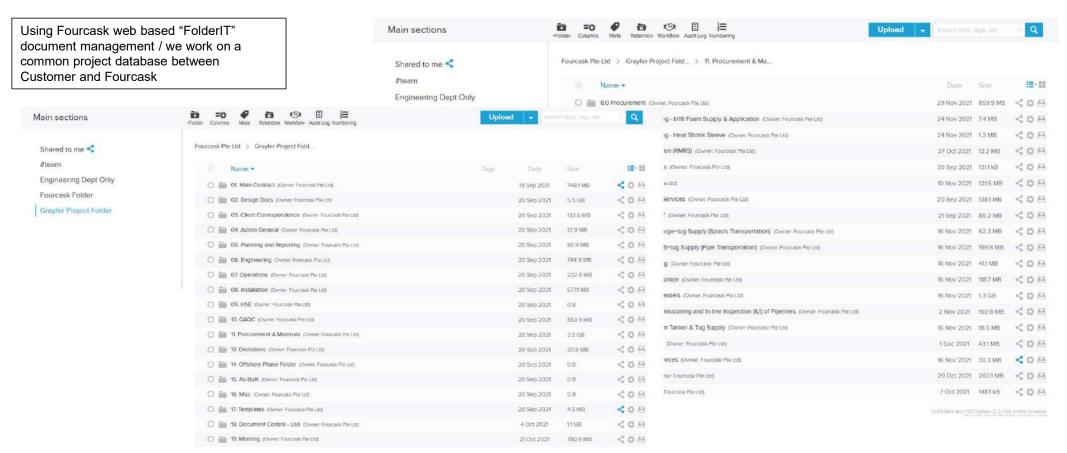
#### **INTEGRATED PROJECT MANAGEMENT TEAM**



#### INTEGRATED ORGANISATION WITH CLIENT



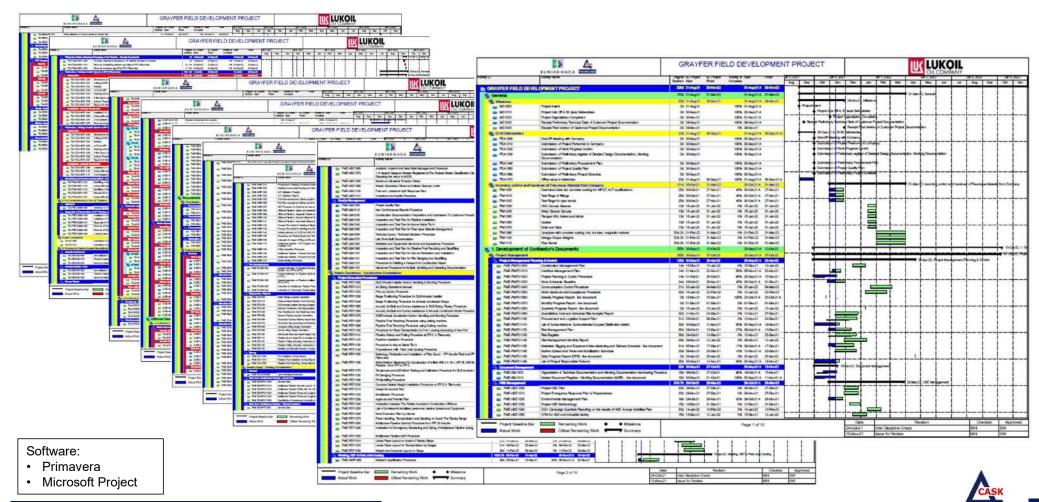
# FOURCASK - PROJECT DOCUMENT MANAGEMENT DIGITIZATION



758 files and 1.42 folders 0.45 GB in this facilities 26/0 GB of 1.0 TB total storage lised Export report to XLSX / ODS / CSV

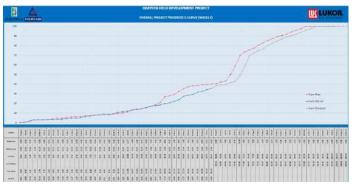


#### **FOURCASK - PROJECT SCHEDULE & DELIVERABLES**

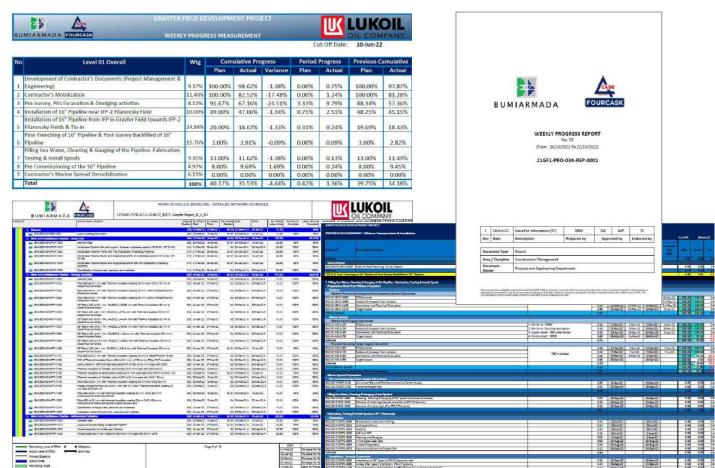


FOURCASK

#### **FOURCASK - PROJECT CONTROLS & PROJECT REPORTING**

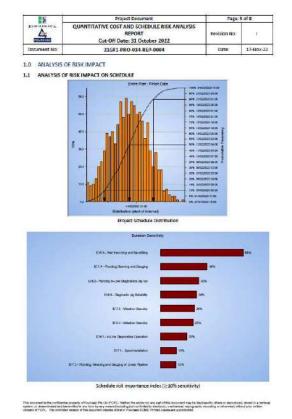


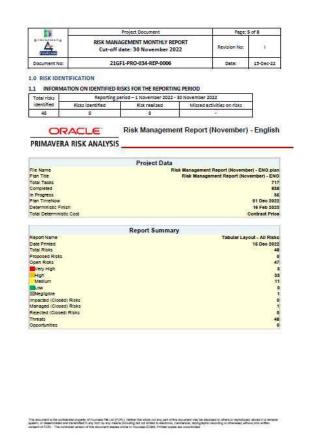
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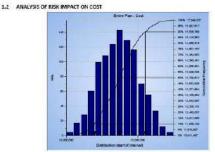


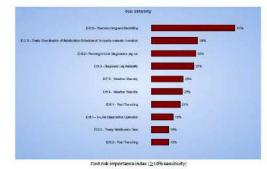
#### **FOURCASK - PROJECT RISK CONTROLS**











The cost is taken in conventional units and assigned to a conditional recourse. The cost of the entire project is as pe Contract attachment B.

This cocument is the confidence popularly of Popular Pts Ltd (PCPL). Next at the whole nor any part of this opcurrant may be declarated with an expectage of the service of

Always looking out for our Client with Project Quantitative Cost and Schedule Risk Analysis



# **PROJECTS**



## PROJECT EXECUTION RISER STALK-ON OPERATIONS





#### **PIPELAYING**

#### Armada Installer – Derrick Pipelay Barge





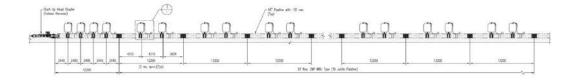


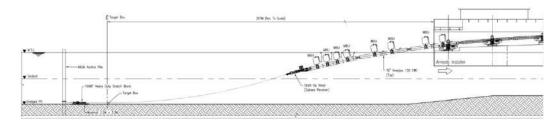


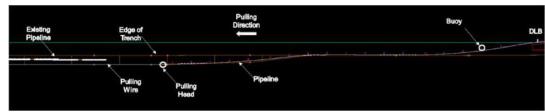


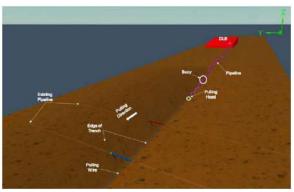


#### PIPE PULLING OPERATION





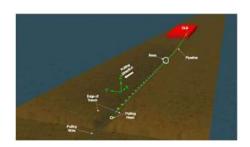


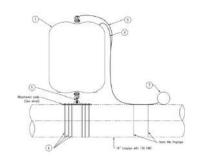


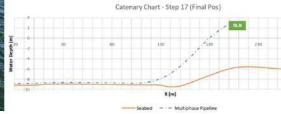












#### PIPELINE ABOVE WATER TIE-IN







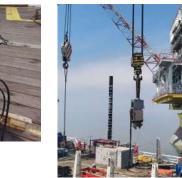




#### **PILING OPERATIONS**



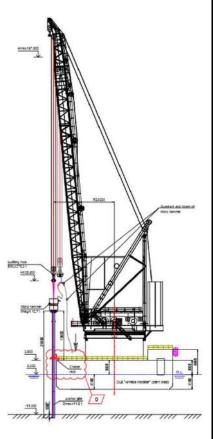












## **PLATFORM DECOMMISSIONING**









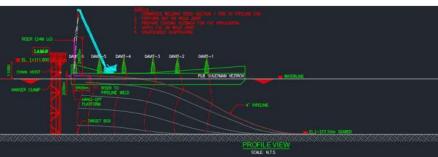






## **RISER STALK-ON OPERATIONS**









#### **SPM AND PLEM INSTALLATION & REFURBISHMENT**











#### **SUBSEA SPOOL INSTALLATION**

Armada Constructor - Shallow Water Pipe & Cable Laying, Trenching





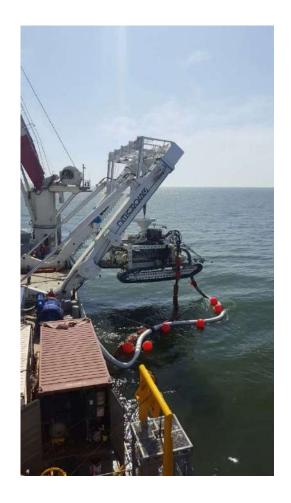




#### **SUBSEA SPOOL FABRICATION**

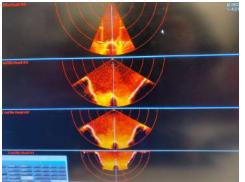


## PIPELINE DREDGING, POST TRENCHING & BACKFILLING









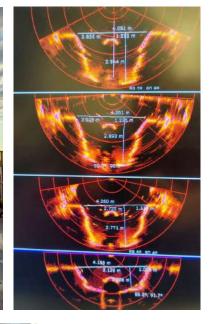


## PIPELINE DREDGING, POST TRENCHING & BACKFILLING







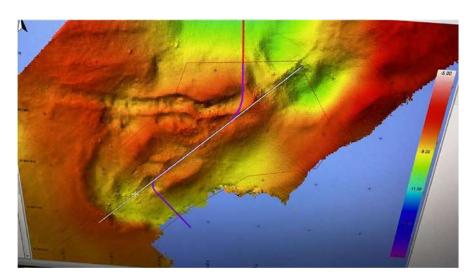






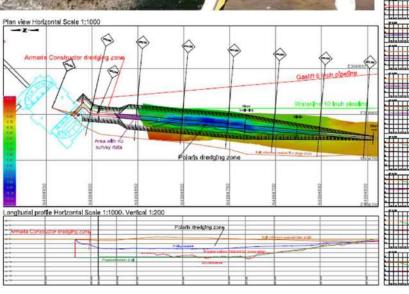


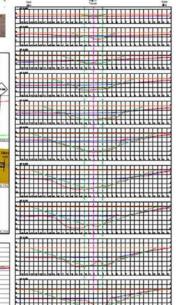






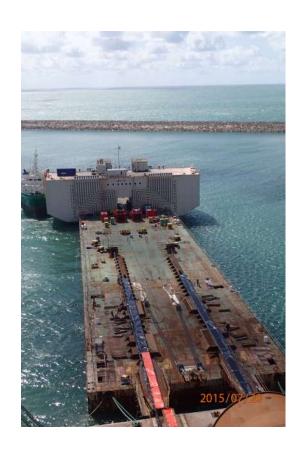






Xproffie Scale 1:200

## **JACKET & DRILLING DECK INSTALLATION**













## **TOPSIDE FLOATOVER**











# FOURCASK ALLIANCE PARTNERS GLOBALLY

#### FOURCASK PARTNERSHIP

- Fourcask is an independent private company had carried out numerous projects in South East Asia, Middle East, Caspian Sea & Russia.
- Through partnership and collaboration with strong companies globally, Fourcask had expanded our capability and is able to undertake larger and more complex offshore EPC projects globally.
- Via our partnership, we now have the ability to provide cost efficiency and streamline operations to customers worldwide.

#### **Our Partners**

















# TRACK RECORDS

