Our Company
Who We Are

• Established through equal ownership between SapuraCrest Petroleum Bhd and Acergy

• SapuraAcergy is a fully autonomous company backed by SapuraCrest and Acergy

• An engineering and construction company that is jointly own and operate the Sapura 3000, a heavy lift and pipelay vessel

• Regional Knowledge – Global Technology
Our Vision

To be the leading solution provider for deepwater construction in Malaysia and throughout the entire Asia Pacific Region.
Our Capabilities

We plan, design and deliver integrated services for complex projects in harsh and challenging environments.

Our key capabilities:

• Project Management
• Engineering Design
• Subsea Construction
• EPIC/EPC Services
Our Asset – Sapura 3000

- Shallow Water Pipelay
- Heavy Lift
- Deepwater Lowering
- Deepwater Pipelay (S-lay and J-Lay)
- DP - 2
- Advanced ROV technology
Sapura 3000 Technical Overview
S-Lay
Sapura 3000 in S-lay
Sapura 3000 Pipelay Equipment Specifications

Pipe Handling
- 2 pipe handling cranes: 40ST each
- Pipe storage racks: 4800 mt capacity

Firing Line
- Centerline Configuration
- 3 x 80 mt Tensioners
- 6” to 60” OD capable
- Up to 10 workstations for welding, NDT and FJC

Abandonment and Recovery
- 360 mt A/R winch
- 3000m wire rope capacity (109 mm Ø)

Stinger
- 90m long 3 section
- Adjustable from 70m to 270m radius
- Steep departure capable for deepwater applications
Sapura 3000 General Arrangement

- 3000sht mastcrane
- Helideck
- Pipe handling cranes
- Pipe storage racks
- Pipelay firing line
- 90m long stinger
Sapura 3000 Pipe Alley
Universal Stinger

Shallow Departure Configuration
Single section can be used

Steep Departure Configuration
85° Departure angle capable
Tee Passing Over Stinger
## J-Lay Tower

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Laying Tension</strong></td>
<td>275MT / 400MT (Dynamic)</td>
</tr>
<tr>
<td><strong>Working / Accidental</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Tower Inclination</strong></td>
<td>12°</td>
</tr>
<tr>
<td><strong>Pipe size</strong></td>
<td>4&quot; - 20&quot;, max 20t Double Joint</td>
</tr>
<tr>
<td><strong>A&amp;R system</strong></td>
<td>332MT for Sapura 3000</td>
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Sapura 3000 J-Lay tower at work on board the Polaris
Heavy Lifting and Lowering Capabilities
Sapura 3000 Lifting Capabilities

Main Block
- 3000ST @ 27m radius stern only
- 2200ST @ 31m radius full revolving

Auxiliary Block
- 800ST @ 55m radius
- Submersible Block

Whip Hoist
- 200ST full radius (two falls)
- 120ST full radius (single fall)
- Submersible Block

Topside installation in Malaysia
Deepwater Lowering

<table>
<thead>
<tr>
<th>Aux Block Configuration</th>
<th>Block Travel</th>
<th>Maximum Load</th>
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<tbody>
<tr>
<td>4 fall Reeving</td>
<td>1000 m</td>
<td>318 ST</td>
</tr>
<tr>
<td>8 fall Reeving</td>
<td>500 m</td>
<td>720 ST</td>
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Optionally, A&R Winch wire can be used for deepwater lowering to ~2500m water depth via overboard A-frame.
Deepwater Lowering Gear

PLET handling frame
Overboard A-frame
Sapura 3000 Station Keeping
Sapura 3000 Station Keeping Capabilities

ABS DP Class 2.

Thrusters
- 2 x 2400kW Azimuth thrusters at stern
- 5 x 2400kW Retractable azimuth thrusters
- Designed to generate a minimum of 150mt of reserve thrust under severe operating conditions
Sapura 3000 Integrated ROVs
Sapura 3000 ROV Capabilities

The Acergy Core Vehicle (ACV) is the most advanced high performance intervention ROV system available.

**Advanced Features:**

- Rated for 3000m operations (can be upgraded to 4000m depth ratings)

- Equipped with StationKeep utility, DP system for ROVs, in order to enhance level of automation and control at subsea site

- 150hp Hydraulic Power Unit
ROV Tether Management System

Deep-water ROV experience has shown a TMS can be “blown” off location by currents.

The ACV TMS units are fitted with thrusters thereby minimising the risk of entanglement and contact with product due to currents.

Thrustered TMS offers the ability to extend vehicle excursion if required.

Remote Touch DP excursions due to extra long reach tethers (1500 m).
ROV Assisted Construction
Subsea ROV Intervention
Subsea Projects Exhibit Capabilities
Petronas – Murphy: Kikeh Gas Export Pipeline – Deepwater Malaysia’s First

Scope Overview:
- Shore Approach
- 12 Inch Export Line
- PLET and Jumper in 1350m WD
- EPCIC basis
ONGC – Larsen & Toubro: MHSRP2 Project – Mumbai High, India

- Installed 3 Platforms
- Jackets 1760 – 1800MT Lifted
- Topsides 1250-1970MT

SapuraAcergy’s first project outside of Malaysia
Petronas – Shell: Gumusut Kakap - Deepwater Malaysia

Scope Overview:
- SEMI-FPS (Floating Production System) Towing and Mooring Install
- 18” Oil Export Pipeline and SCR
- Multiple In-Field Flowlines and Steel Catenary Risers
- Multiple Manifolds, PLETS, Sleds and Driven Subsea Piles
Nippon Steel – Iwaki Platform Decommissioning
Japan

Scope Overview:
- Topside removal and salvage
- Jacket cutting and reefing
- Approx. 120 Subsea Cuts with various ROV operated cutting tools
QUESTIONS?