# Sapura Esmeralda

Seagems

DP Pipelay Support Vessel

## General Information

Flag: Brazil

Classification : Lloyds Register

Notations: *100A1, Pipelaying Ship, Helicopter Landing Area, WDL (10t/m2 from fr.-10 to fr.100), LI, *IWS, *LMC, UMS, ICC, DP(AA), NAVI, IBS, CAC3/

## Principal Dimensions

| | |
|---|---|
| Length Overall: | 133.81 m |
| Length Between PP: | 121.15 m |
| Breadth Moulded: | 24 m |
| Depth Main Deck: | 10.0 m |
| Summer Draught (Max): | 6.75 m |
| Draught Scantling: | 6.75 m |

Deadweight At Design Draught: 6143 MT

| | |
|---|---|
| Gross Tonnage: | 12061 t |
| Net Tonnage: | 3618 t |

Air Draft with vessel draught of 6,75 m: 44.15 m

## Tank Capacities (100%)

Heeling Tanks: 392 m³

Fresh Water Tanks: 630 m³

Water Ballast Tank: 2757 m³

Marine Gas Oil: 1223 m³

Technical Fresh Water Tanks: 1125 m³

## DP Systems

DP Classification: Class II

DP System: KPOS DP22

Reference System: 1x Veripos DGPS
1x SeaStar DGPS
2x DGPS 232 / 432
2x HiPAP 500
1x Cyscan

## Power and Propulsion

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|---|---|
| DP capability: | DP 2 |
| Thrusters: | 6 units |
| Stern Thrusters: | 3 x 1965 kW |
| Retractable Thrusters: | 1 x 2400 kW |
| Bow Thrusters: | 2 x 1500 kW |
| Service Speed: | 12.71 knots |

## Cranes

NOV Principal Crane

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|---|---|
| Main hook (AHC - Knuckle Boom): | 50 t |
| Auxiliary Hook: | 10 t |

TTS Aux iliary Crane

| | |
|---|---|
| Main Hook: | 15 t |
| Auxiliary Hook: | 5 t |

Heila Top TowerCrane

| | |
|---|---|
| Double fall: | 20 t |
| Single fall: | 10 t |
| Personnel Lifiting: | 2.5 t |

## Flexible Pipelay Capability

It is a vessel capable of operating in water depths of up to 2,500m, suitable for worldwide operation. It is fitted with two underdeck storage carousels, with a capacity for 2,350 tonnes and 650 tonnes of product. A vertical (tiltable) lay system (300 tonnes top tension capacity) is installed for deployment of a range of flexible products with a diameter from 50mm to 648mm, and a horizontal lay system (85 tonnes top tension capacity) is installed for deployment of a range of flexible products with a diameter from 50mm to 500mm. Both permanently installed systems.

Vertical Lay System (VLS) includes an A&R winch equipped with 2,500 meters of available wire length and a working capacity of 340 tons of top tension and an horizontal lay system (HLS) witch includes an A&R winch equipped with 2,500 meters of available wire length and a working capacity of 100 tonnes of top tension compatible with A-Frame installed at the stern of the vessel.

The moon pool is designed to hang off products up to 340 tonnes and is fitted with a mechanism to allow the product to be rotated under There are two 20t deck loading tensioners on the stern of the vessel.

## ROV Systems

The vessel is fitted with two over side launched work-class III ROV's (TMT Typhoon - MKII) rated to 3000m depth.

## Accommodation

Capacity: 100 persons

- 4 x Single Cabins (with dayroom)
- 34 x Single Cabins
- 31 x Double Cabins

| | |
|---|---|
| Hospital: | For 3 – Person |
| Mess Hall: | For 56 – Person |

Recreation Spaces:

- Lounge / video room, Smoking lounge, Internet lounge and Gymnasium

Helideck

| | |
|---|---|
| D Value: | 22.2m |
| T value: | 12.8t |

The vessel is fitted with an approved and certified helideck suitable for Sikorsky S92.

## Communication System

The vessel is fitted with an extensive communications system including a dual KU /C Band Vsat satellite communication system, WIFI entertainment system, 2x Inmarsat C and Inmarsat F systems.


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