Anchor Handling Tug Supply (AHTS) Vessel

KPV Kapas



Delivery Date: 29th Ianuary 2010 American Bureau of Shipping(ABS) Maltese Cross + A + Fifi Class 1, Class:

+ AMS, Circle E, for restricted services. DPS- 1 Enable

Name/Registry/FLag

KPV Kapas/ Port Klang / Malaysia Call-sign : 9MI D2 Official Number: 334135

Principle Dimensions

Length O.A: 60.00 m Deadweight: 1798.60 T Breadth Moulded: 16 00 m Depth Moulded: 6 00 m 2845.87 T Max. Draft: 5.10 m Displacement: GRT/ NRT · 1704 / 511 Endurance 25 days 5 MT/ m² Deck Carrying Capacity : Deck Strength : Speed: 10 knots @ 85% MCR / 13 knots @ 100% MCR

Clear Deck Space:

390 m² Deck area: Total deck area inclusive steel deck: 390 m² 334.72 m² Total deck area without steel deck : Steel deck area: 55.28 m²

Tank Capacity

Potable water/ Fresh Water: 460 m³ Fuel Oil: 530 m³ Drill Water (DW) : Sludge: 2 1 m³ 478 m³ Foam Tank Dispersant Tank 10 m³ Sewage Holding Tank: Bilge Holding Tank: 10 m³ 12 m³ <u>Liquid Bulk Capacity</u>:

1164 m³ (bbls) 1164 m³ (bbls) Base oil: Mud: 1258 m3 (bbls)

Bulk Handling SystemSuitable for carriage of Cement, Barite and Bentonite with max. density of 2.5

• Total Capacity: 4 x 1375 ft2 (156 m³) approx.

• Working Pressure: 80 psi (5.6 bar)

Pumps

1 x 100 m³/hr at 75 m head Potable Water : 1 x 100 m³/hr at 75 m head Fresh Water : 1 x 100 m³/hr at 75 m head Drill Water: 1 x 100 m³/hr at 75 m head 2 x 14 m³/hr at 5.67 bar 2 x 80 m³/hr at 75 m head Dry Bulk Delivery : Liquid mud/Brine: GS & Fire/Detergent : 50 m³/hr at 57 m head 2 x 100 m³/ hr at 80 m head Brine:

- Main Engine
 2 x YANMAR (FHH0360 & FHH0359)
- 2 x 1920 kW @ 2610 HP (440/60/3)

Bow Thruster (Electric Motor Driven by Shaft Generator) :

SCHORCH (50103702/1) 600 kW / 805 HP delivering 8 MT lateral thrust (electric motor driven).

Stern Thruster (Electric Motor Driven by Shaft Generator):

- SCHORCH (50103702/1) 450 kW / 604 HP delivering 6 MT lateral thrust (electric motor driven).

Steering Gear & Rudder:

- 2 x High Lift 45° Rudder c/w Flap
 2 x Independent Electro- hydraulic steering gear for each rudder

Propeller

Control pitch propeller (CPP)

Main DG:

 2 x Caternillar 2 x 280 kW @ 375 HP (440 3/60)

Shaft Generator:

• 2 x 1920 kW @ 2610 HP (440 3/60)

Emergency DG/ Harbour Genset:

- 1 x Caterpillar
- 90 kW @ 121HP (440/3/60)

- Anchor Handling Cum Towing Winch

 Electro- hydraulic Driven Twin Drums in Waterfall Configuration, 1000m x 58mm dia. wire
- Brake holdings 250 MT (1st layer)/ spring loaded hyd. Release Dynamic lowering @ 25 MT @ 0 to 36 m/ min (1st layer) Remote control in Wheelhouse and local control at site.
- Work wire complete with GOLD NOSE socket terminations.

Anchor Handling Gear

1 x 500 m x 58 mm diameter work wire complete with GOLD NOSE socket

- 4 x buoy catcher slings.
- 1 x heavy duty J hook.
- 1 x grapnel.

- Anchor Handling Securing Device

 1 set of Anchor Handling Securing Device: Ulstein Shark jaw SWL 300MT
 Hydraulic stopper: SWL 290MT

- Towing Gear
 1 set of 1.6m x 38 diameter gob lines or as per class requirements
- 58 mm X 1000 (m) x 2.7 (") diameters towing wire plus one spare brand-new tow wire completes with GOLD NOSE socket terminations.

 2×200 MT SWL, equipped with rotating liners c/w turntable flaps & hydraulic cylinders for lifting & lowering.

Stern Roller
1.8 m dia. X 4.2 m length with SWL of 375 MT

Towing and Anchor Handling Winch Winch (Pull Capacity) Towing Winch: 150 MT

- Anchor Handling Winch: 150 MT

Winch (Brake Capacity)

- Towing Winch: 250 MTAnchor Handling Winch: 250 MT

Drum Capacity Electro-Hydraulic Driven Twin Drums in Waterfall. Configuration: 1500m X 2.5mm

Deck Crane 2.5 MT SWL

Capstan

2 x 5 MT @ 15 m/ min

Tugger Winch 2 x 10 MT @ 15 m/ min.

Storage Rope Reel 1 x 10MT @ 0 to 15 m/ min @ capacity : 1000 ml x 58 mm dia. steel wire rope, 2 x 45 kW hydraulic operated with local controls

Bollard Pull

63.8 MT (Continuous Bollard Pull).

** This vessel specification is given in good faith & assumed correct. Details given are without guarantee.



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Anchor Handling Tug Supply (AHTS) Vessel

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- Fully utilised. Clear and suitable size of main deck space marking (with numbering). Deck space painted with yellow lines denoting square of (10 ft x 20 ft).

- The aft cargo deck is sheathed with 51 mm thick hardwood properly secured to the main deck excluding the anchor handling area in the stern.
- The total area meets Clear Deck Space criteria.

Gate type

Available on both sides of vessel main deck. 2.5-meter height.

Aircraft type tyre fenders in place as per GA Plan.

Minimum specifications as follows but not limited to (comply to IMO Standards):
2 x Oxygen resuscitator plus one spare Oxygen cylinder (where applicable)

- 1 x Paraguard stretcher Mk. 3 c/w 4 pts lifting sling.
 4 x sets Airsplints

- 4 x 25 persons First Aid Kit
 1 x 100-liter antiseptic lotion in sealed locker
- 1 x Automated External Defibrillator (AED) 1 x unit Portable Blood Pressure Monitor

Available complete dispersant spraying system and agitators.

10 m3 of dispersant storage tank at 100%

- 50 m3/ hr dispersant pump capacity at 1 bar pressure. Nozzles generate droplets size in range of 500 to 1200 microns, able to spray dispersant neat in the ratio of 1:10 (dispersant water).

Fire Fighting Equipm External Fire Pump

1 x 60 m3/ hr @ 6 bar

Fire monitor

1 x 1200 m³/ hr @ 12 bar

Fire Extinguish system

- Fixed CO2 system for Engine Room and Bow Thruster Room.
 Sprinkler system: As per ABS rules and SOLAS requirement.
 Fire Hydrants & Extinguishers: As per ABS rules and SOLAS requirement.

As per ABS rules and SOLAS requirement

All accommodation spaces & engine control room are fully air-conditioned.

Accommodation Lavout:

Marine crew: 17 pax Passenger: 23 pax

- 1 berth cabin x 4 = 4 men
- 2 berth cabin x 2 = 4 men
- 4 berth cabin x 8 = 32 men

Total = 40 men

- 1 x 1 berth (sickbay) = 1 men
- 1 x recreation room

Recreational Facilitie

- TV minimum 42 inch with Astro
- Gymnasium with suitable equipment
- · DVD/CD player

Designated Working Areas as follows comply:

- Room
- · Paint store
- Instrument Workshop
- Welding Workshop
- Mechanical Workshop

Communication/ Navigational Equipment

- Navigational and communication equipment per SOLAS / IMO (GMDSS) including International Maritime Satellite System
 GMDSS: Inmarsat C (Furuno Felcom 15) x1; SSB radio MF/HF ctrl unit (Sailor CU 5100)
 Radar: Raytheon Anschutz (with ARPA)
- Gyro Compass: Digital Gyro Std 22 (Anschutz) Auto Pilot: Anschutz Pilot star D
- GPS Navigation: Furuno GPS RD 30 Echo Sounder: Furuno FE 700
- Walkie Talkie: Motorola GP 328
- AIS/SSAS: Furuno IC-307
- VHF Transceiver: NSR NVR-1000; Vertex 1000S

2 x 2000watt, revolving searchlights capable of 360° rotations. searchlights c/w remote controls (1 fwd & 2 aft). Sufficient illumination on the fore and aft deck to enable night operations to be carried out safely.

7 sets of CCTVs to cover 360-degree field of view camera with infra-red /night vision capability. CCTV system with computer, UPS & storage which able to retain the video for 10 weeks.

4 no. x 16 Amp, 415/3/60 and 4 no. x 32 Amp, 220/1/60
• IP68 waterproof

Fuel Oil

- 1pc 3inchx30meter both end Male Female TODO
 1pc 3inchx25meter Camlock

Fresh Water
• 1pc 3inchx25meters Camlock

- Portable Water/Drill Water
 1pc 3inchx25meters Camlock
- Floatation collars available

Cargo connections
Fuel Oil: 4" hose with TODO coupling 4" hose with TODO coupling 4" hose with CAMLOCK coupling. Fresh Water: Drill Water: Dry Bulk 5" hose with CAMLOCK coupling. Liquid Bulk: 4" hose with CAMLOCK coupling

Equipped with certified MARPOL drip sampler.

- Semi rigid type Size: 4.50 (m) x 1.85 (m) x 0.85 (m)
- 40 (HP) outboard enginesFitted with proper quick launching and recovery facilities onboard.
- Davit crane as per SOLAS requirement

2 sets on each side of the vessel at main deck. Marked RESCUE ZONE painted in bright yellow with diagonal black stripes.

Available one on each side of the RESCUE ZONE. 2 m wide, made of 12 mm diameter nylon with 200 mm X 200 mm hole.

1 set of portable gangways complete with handrails and safety net.

- Length: 6.0 meter
- Width: 0.6 meter

Pilot Boarding Platform Via RESCUE ZONE.

Via RESCUE ZONE.

Personnel Boarding Platform

Boat Landing Platform Aft Port & Stbd

- Self-up righting capability.

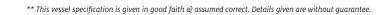
 Comply with USCG/North Sea Standards.

1 set of 40 (kg) Ruth Lee M.O.B dummy

Comply as per STCW and carrying below Minimum Safe Manning Certificates• Minimum Safe Manning Unlimited • Minimum Safe Manning Near Coastal

- Minimum Safe Manning Domestic

Fully complied with the STCW '95 Convention including 2010 Manila amendment and in particular respect to Chapter VIII, Section A-VIII/1 "Fitness for duty"





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