

Accommodation Workboat

KPV Redang



Classification

Delivery Date : 21st March 2011
Class : American Bureau of Shipping (ABS) +A1, +AMS Circle E, with descriptive notation multipurpose offshore support vessel for unrestricted service, +DPS-2

Name/Registry/Flag

KPV Redang / Port Klang / Malaysia
Call-sign : 9MLT4
IMO NUM : 9507568
Official Number : 334343

Principle Dimensions

Length O.A :	75.00 m	Deadweight :	3046 T
Breadth Moulded :	20.00 m	Depth Moulded :	7.20 m
Displacement :	5525 T	Max. Draft :	5.80 m
GRT/ NRT :	3719 / 1115	Endurance :	22 days
Deck Carrying Capacity :	10 MT/ m ²		
Deck Strength :	10 tonnes/ m ² covered with wood sheathing.		
Speed :	7 knots @ 85% MCR / 11 knots @ 100% MCR		

Clear Deck Space

Main Deck total area :	705.3 m ²
Lower Deck Forecastle :	80.4 m ²
Total Deck Space :	785.7 m ²

Minus Area

• Crane Base :	47.4 m ²
• Deck Store Port Side :	36.3 m ²
• Stbd Side Store :	39.3 m ²
Total Free Deck Space :	662.7 m ²

Tank Capacity

Fuel Oil :	502.1 m ³
Potable Water :	1127 m ³
Sea Water Ballast :	496 m ³
Grey Water Tank :	20 m ³
Bilge Holding Tank :	17 m ³
Sewage Holding Tank :	20 m ³
Lube Oil Storage Tank :	34 m ³
Dirty Oil Tank :	17 m ³
Hydraulic Oil Tank :	12 m ³
Antiroll :	1, 119 m ³

Fresh water maker

Reverse osmosis type of fresh water maker, Capacity - 25 MT/ day x 2 units

Cargo Pumps Discharge Rates

Fuel Oil:	50m ³ /hr at minimum 50m head
Potable Water:	50m ³ /hr at minimum 50m head

Diesel Fuel and Fresh Water Flow Meters

2 units of tamper proof non-resettable flow meters with printer

Main Machineryes

Main Engine

- 2 x Wartsila
- 2 x 1600 kW @ 2145 HP (440/60/3)

Thrusters

Bow Tunnel Thruster CPP x 2, 12 MT thrust each approx. Electric motor driven c/w remote control in wheelhouse with interface for DPS- 2 and VDR system.

Stern Tunnel Thruster CPP x 1, 10 MT thruster approx. Electric Motor Driven c/w remote control in wheelhouse with interface for DPS- 2 and VDR system

Steering Gear & Rudder;

- 2 x independent steering gear for each Rudder in compliance to DPS- 2 requirements
- 2 x High lift rudder or Becker design with flap or equivalent Propeller: Control Pitch propellers (CPP)

Power Plant

Main DG:

- 4 x Caterpillar
- 4 x 850 kW @ 374 HP (440 3/60)

Emergency DG/ Harbour Genset:

- 1 x Caterpillar
- 95 kW @ 127 HP (440/3/60)

Anchor and Mooring System

Mooring System

- 4 points mooring system.
- LTMS done
- Anchor rack fitted complete with anchor : HYD 14, High Holding Power (HHP), 5 Tons

Anchor Wire

4 nos x 44 mm x 1,200 m.

Marker & Parachute Buoy

- 4 nos anchor buoy
- 3 nos spring buoy
- 1 spare anchor onboard

Pennant lines

Complied as per mooring wire specification and subject to change as per client requirement (Specification & certificates to be provided upon required).

Anchor

- 4 unit on rack, 1 unit spare on board.
- Anchor type is HYD-14, High Holding Power, 5 Tons.

Deck Machinery

Deck Crane

Favell Favco 8/10K

- Pedestal Crane
- Certified with Man Riding Certificate
- Lifting capacity: SWL 45 MT, Boom length 36.6 m
- Maximum load: 45 tonnes at 7m/ 82-degree boom angle.
- Middle Load: 14.3 tonnes at 21.3 m/ 56.3-degree boom angle.
- Minimum Load: 2.8 tonnes at 37.5 m/ 10.9-degree boom angle.

Provision Crane - MacGregor Plimsoll Pte Ltd.

- 3 tonnes SWL @ about 18 m radius located aft of forecastle deck.

Rescue Craft

Fully Rigid Type

- Size: 6.00 (m) x 2.20 (m) x 1.05 (m)
- 1 x 6 men FRC Boat, inbound engine – waterjet 160HP.
- Fitted with proper quick launching and recovery facilities onboard.
- Davit or crane, which handles the rescue craft be maintained as per SOLAS requirement.

Rescue Zone

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

Fenders

As per CLASS requirement suit with the scope of work in place as per GA Plan.

- Tyre Fenders Fitted (Main Deck and Forecastle Deck: Port & Starboard.
- 2 Unit Yokohama Fender.

Medical Equipment

Minimum specifications as follows but not limited to (comply to IMO Standards).

- 1 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 Air splints
- 8 x 25 persons First Aid Kit
- 1 x Automated External Defibrillator (AED)
- 1 x unit Portable Blood Pressure Monitor

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Weighted Scrambling Nets

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.

Gangway

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

- Length: 18.290-meter, Width: 0.970 meter

Accommodation

Fully air conditioned (Cabin, Toilet and Shower Facilities, Galley, Mess Room, Laundry). Total 200 berths.

- 1 x hospital
- 1 x conference room
- 1 x recreation room
- 1 x gym
- 2 x offices

Berth Capacity for Charterer

Minimum 160 pax for CHARTERER (excluding marine and catering crew)

During 4 Point Mooring Operation:

- Clients: 155 Pax
- Marine + Catering Crew: 41 Pax

During DP Operation:

- Clients: 155 Pax
- Marine + Catering Crew: 41 Pax

Recreational Facilities

- Recreation Room.
- TV 42 inch with Astro .
- DVD/CD player.
- Gymnasium equipment available with table tennis with suitable equipment.

Fire Fighting Equipment

External Fire Fighting

- 1 unit of diesel engine driven sea water pump with capacity of 300 m³/ hr @100- 120 m head with local and remote control in the wheelhouse. 2 units of fire monitors

Fire Detection and Protection

- Accommodation spaces are protected by freshwater sprinkler system.
- Engine Room, Bow Thruster Room, paint store and emergency generator room are protected by fixed co₂ fire protection system.
- Flexi- fog water mist extinguishing system as per SOLAS/ Class requirement.

Life Savings Appliance

As per ABS rules and SOLAS requirement

Working Areas

Designated Working Areas as follows comply:

- Room
- Welding Workshop
- Paint store
- Mechanical Workshop
- Instrument Workshop
- Charterer store
- Scaffolding and Gangway Racks
- Isotope Storage Container

Telecommunication

Navigational and communication equipment per SOLAS / IMO (GMDSS) including International Maritime Satellite System Organisation (INMARSAT) terminal.

Communication/ Navigational Equipment

- GMDSS – area A1 to A3, PA/ Talkback system and sound powered telephone system.
- Echo sounder, radars x2, GPS navigator, SART x2, gyro compass x3, anemometer (wind sensor) x2.

Searchlights

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

CCTV

- 8 sets of CCTVs to cover 360-degree field of view camera with infra-red /night vision capability.
- CCTV system with computer, UPS & storage which

Reefer Points

- 4 no. x 16 Amp, 415/3/50 and 4 no. x 32 Amp, 230/1/50
- IP68 waterproof

Flexible Hoses

Drill/ Potable Water Hoses

20 m x 3" size, rubber hose, cam-lock with floatation collar.

Diesel Fuel Hoses

20 m x 3" size, rubber hose, camlock with floatation collar.

Cargo connections

Fuel Oil: 3" hose with self-sealing and quick shut off valve (male coupling). 4" TODO coupling, 4" female to 3" male reducer.

Fresh Water3: " hose with camlock coupling (female).Reducer available onboard (2"-3" and 3"-4").

Drip Sampler

Equipped with certified MARPOL drip sampler.

Boat Landing

On both Port and Starboard cum with Swing Ropes.

- Non-Slip type of boat landing floor.
- Swing Ropes cum with pad eyes with Colour Coded in line with Charter Colour Coding for Lifting Gears.

Pilot Boarding Platform

Via RESCUE ZONE.

Personnel Boarding Platform

Via RESCUE ZONE.

Work Vest & Life Vest

- Self-up righting capability.
- Comply with USCG/North Sea Standards.
- 6 pcs work vest for marine crew
- 12 pcs life vest for marine crew

M.O.B. Dummy

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

Manning

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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