Multi-Purpose Offshore Support Vessel



KPV REDANG





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KPV REDANG

Classification	:	ABS Class, +A1, +AMS Circle E, with descriptive
		Notation multi-purpose offshore support vessel
		for unrestricted service, +DPS-2
Other Compliance	:	IMO Intact and Damage Stability A469, COLREG
		72 & Amendment, GMDSS A3, MARPOL Annex
		I, IV, V & VI
Flag	:	Malaysian Flag
IMO Number	:	9507568
Call Sign	:	9MLT4

PRINCIPLE DIMENSION

Length O.A	:	75.00 m
Length W. L.	:	72.00 m
Beam MLD.	:	20.00 m
Depth MLD.	:	7.20 m
Draft (Designed)	:	5.20 m
Draft (Max)	:	5.80 m
Deck Area	:	520 m ²
Speed	:	Abt. 11 knots @ 100% MCR @ ballast condition
		about 4.0 meter mean draft
Main Engines	:	2 x 1600 KW (100% MCR) @ 1000 rpm coupled
		to Berg CPP type BCP690 c/w with gear box
Endurance	:	Min. 22 days
Complement	:	200 men
Fuel Type	:	Marine Diesel Oil
Main deck strength	:	5 tonnes / m ² covered with wood sheathing
GT	:	3719 MT
NT	:	1115 MT

TANK CAPACITY

F.W.	:	1005 m³
F.O.	:	597 m ³
S.W.B	:	650 m³
Grey Water Tank	:	20 m ³
Bilge holding Tank	:	17 m³
Sewage Holding Tank	:	20 m ³
Lub Oil Storage Tank	:	34 m³
Dirty oil Tank	:	17 m³
Hydraulic Oil Tank	:	12 m³
Antiroll	:	1,119 m³

ACCOMMODATION SPACE

or	all accommodation spaces
:	96 men
:	1 man
	:

Lower forecastle deck	:	84 men
Upper forecastle deck	:	9 men
Total	:	200 men

OTHER FEATURES

Stabilisation system	:	Flume passive stabilisation system
Voyage Data	:	Yes, as per SOLAS requirement
Recorder system		
Fresh Water Maker	:	Reverse osmosis type of fresh water
		maker, Capacity - 50 mt /day x 2 units
Service Air	:	Capacity of air compressor - 150 m ³ / hr
		@ Compressor 7 bar x 1 unit
Air Receiver	:	Capacity – About 1 m ³

COMMUNICATION / NAVIGATIONAL EQUIPMENT

Communication	: GMDSS - area A1 to A3, PA/Talkback
System	system and Sound Powered telephone
	system
Navigational Aids	: Echo Sounder, Radars x 2, GPS
	Navigator, SART, 406MHz EPIRB, Gyro
	Compass (2 units), Auto Pilot, DGPS, AIS,
	Speed Log, SSAS, Anemometer

STEERING GEAR & RUDDER

Steering Gear	: Independent steering gear for each
	Rudder in compliance to DPS-2
	requirements.
Rudder type	: High Lift rudder of Becker design with
	flap or equivalent.

MAIN MACHINERIES

Main Engine &	:	2 x 1600 KW main engine @ 1000 rpm
Propulsion System		approx. c/w. gear box Berg CPP type
		BCP 690 propeller in nozzle.
		The main engines cooling system will be
		by Freshwater through box coolers.
Thrusters	:	Bow Tunnel Thruster CPP x 2, 12 MT
		thrust each approx., Electric Motor driven
		c/w with 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



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POWER PLANT

Diesel Generator	: 4 x 850 EkW, 440/3/60, 3 wire system
Harbour Generator	: The alternators are fitted with Power Factor Regulator Approximate 320 EkW, 440/3/60.
Emergency Generator	: 1 x 95 EkW, 440/3/60.
Shore supply Panel	: 300 amps capacity

DPS-2 SYSTEM (Comply to ABS Classification Rules)

Equipment System : Converteam (Designer and Supplier of the system except for the Gyro-compass and the propulsion and steering gear system)

Equipment and system provided to be in compliance with the Classification Rules and regulations.

The system main features comprises of the following:				
Redundancy Requirement	:	Yes		
DP control computer	:	2 units		
Position Reference system	:	2 x DGPS & 1 x Laser Reference System Wind speed & Direction Equipment: 2 units		
Wind speed &	:	2 units		
Direction Equipment				
Vertical Reference Unit	:	2 in nos.		
Printer for alarm data Log	:	2 in nos.		

DECK MACHINERY

Anchor Windlass	: Hydraulic Driven suitable for 48 mm stud link Grade 2 chain c/w wharping drums
4 points mooring system	: 4 x 4000 kg Delta flipper anchor or equivalent + 1 spare 4 x hydraulic driven single drum c/w auto spooling gear,
	with pull of 40 mt at low speed and 10 mt at high speed. Drum capacity of 1300 meter x 44 mm diameter wire.
	Brake holding of 90 mt static
Clutch	: Hydraulic cylinder operated jaw clutch
Free wheel	: De-clutch drum from drive with brake off (Dragging Brake apply on drum shaft to control speed)
Brake	: Spring acting, hydraulic cylinder release band and brake on drum
Dragging Brake	: On drum shaft to control payout speed during free-wheeling
Control	: Local control and central remote control in Wheelhouse
Emergency system	: Emergency quick release system
Monitoring System	: Remote monitoring of the winches at Wheelhouse by flat screen monitor.
Hydraulic Vertical Capstan	: 2 units on main deck with pull of 5 mt.

FIRE FIGHTING EQUIPMENT

External Fire Fighting	1 unit of diesel engine driven sea water pump with capacity of 300 m³/hr @ 100-120 metre head with local and	
	remote control in the wheelhouse. 2 units of fire monitor.	
Fire Detection and Protection :	: Accommodation spaces are protected by fresh water sprinkler system. Engine Room, Bow Thruster Room,	
	paint store and emergency generator room are protected by fixed CO ₂ fire protection system. Flexi-fog water mist	
	extinguishing system as per SOLAS / Class requirement.	

DECK CRANE

Vessel Designed for the provision for the following deck equipment

Deck Crane	:	Amclyde 10000 from American Equipment
Provision Crane	:	3 tonnes SWL @ about 18 metre radius located aft of forecastle deck
MAXIMUM LOAD	:	25.1 Tonnes at 7 m/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

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

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