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Group of Companies
Pacific Crest Pte Ltd
Alstonia Offshore Pte Ltd
Strato Maritime Services Pte Ltd
Prime Offshore International Pte Ltd
Crest Subsea International Pte Ltd
Titan Offshore Equipment Pte Ltd
Radiance Catico Offshore Pte Ltd



OUTLINE SPECIFICATION				
PRINCIPAL PARTICULARS		RADIO & NAVIGATION EQUIPA	MENT.	
Year Built	2014	Gyro Compass	3 sets Anschutz/Germany (STD 22)	
rear Built Tonnage (69)	3023			
Class / Notation	BV - I ≇HULL ≸MACH, Supply Vessel,	Magnetic Compasses	One (1) reflector type compass c/w Azimuth circle	
Class / Notation		1	Lilley & Gilie / UK (MK2000S)	
	Special Service - Air Diving and ROV Support	Auto Pilot	1 set Navitron / UK (NT888G)	
	Vessel, Special Purpose Ship, Unrestricted	GPS	1 set Furuno/Japan (GP-150)	
	Navigation, INWATERSURVEY, *DYNAPOS	Echo Sounder	1 set Furuno/Japan (FE-700)	
	AM/AT R, ALS	Radar	1 set X-Band Radar Furuno/Japan (FAR-2117)	
Flag	Singapore		1 set Radar Furuno/Japan (FR-8062)	
Official Number	399080	GMDSS Sea Area 3	1 set Furuno /Japan	
Call Sign	9V2486	Speed log	1 set Furuno/Japan (DS-80)	
IMO Number	9712527	Navtex Receiver	1 set Furuno/Japan (NX-700B)	
		AIS	1 set Furuno/Japan (FA-150)	
		Inmarsat C with SSAS	1 set Furuno/Japan (Felcom 18)	
		EPIRP	1 set McMurdo/UK (E5)	
		SART	2 sets McMurdo/UK (S4)	
		Public Addressor	1 sets Vingtor Talkback & PA system	
		Telephone	1 sets Vingtor Integrated Telephone/Command System	
	1	BNWAS	1 set Navitron / UK (NT991 BNWAS)	
	1	VHF	2 sets Furuno/Japan (FM-8900S)	
	<u> </u>	TV System	1 set Naval/USA (PR-422)	
DIMENSIONS		ECDIS	1 set Furuno/Japan (FMD-3200)	
Length Overall	70.00m	1.1		
Length BP	62.40m	1.1		
Breadth Moulded	16.60m	1.1		
Depth Moulded	7.20m	DECK EQUIPMENT		
Draft (DESIGNED)	5.60m	Anchor Windlass	2 x Electro-Hydraulic c/w Hawser drum &	
Draft Scantling	5.90m		Warping Head 10t x 9m/min	
Deadweight	Abt. 2800T	Anchor & Chain	2 x HHP Anchor abt. 2,280 kg coupled to 550M x	
Deadweight	ADI. 2000 I	Alichol & Challi		
DEDECRMANCE		Mindless May 1 5	42 mm (U3) Stud Link Chain	
PERFORMANCE		Windlass Mooring Drum	2 x 6t x 15m/min	
Maximum Speed (4 Engines)	Est 19.50 Tons/ day @ 11knots	Mooring Lines	4 x 170M length each of 22t breaking strength	
Maximum Speed (3 Engines)	Est 18.0 Tons/ day @ 11knots	Tugger winch	2 x Hydraulic driven 10t x 15m/min	
Economical Speed (4 Engines)	Est 11.5 Tons/ day @ 9knots	Capstan	2 x Hydraulic driven Vertical mount 10t x 25m/min	
Economical Speed (3 Engines)	Est 10.0 Tons/ day @ 9knots	Subsea Crane	1 x SMST Offshore AHC Knuckle Boom Hydraulic	
	Est 7 Tons / day @ 0.3 knots max speed		30T SWL @8m Radius	
Fuel Consumption - In DP mode (2 Engines)	Est 5 Tons / day @ 0.3 knots max speed		15T SWL @12m Radius	
Fuel Consumption - In Anchorage	Est 1.8 Ton /day (Main generator)		10T SWL @10m Radius at waterdepth of 300m	
· · · · · · · · · · · · · · · · · · ·			2T @ 22m Manriding	
Fuel Consumption - In Port	Est 1.2 Ton /day (Harbour generator)			
	Figures stated are subject to seastate weather	Provision Crane	1 x TITAN 5t SWL @10m Radius Fixed Boom Hydraulic	
	working conditions and working parameters			
		FIRE-FIGHTING EQUIPMENT		
CAPACITIES		Firemain	Firelines with ND40 bronze hydrants	
Deck Strength	7.5 t/m²	Fireman Outfit	6 complete fireman's outfit to SOLAS requirement	
Clear Deck Area	Abt. 400 m ² @7.5t/m ²	Portable Fire Extinguisher	As per SOLAS Requirement	
Mezzanine Deck	Abt. 120 m ² @ 5t/m ²	Fixed CO2 & Flexi-Fog Water	To be installed in Category A Machinery space	
Potable Water	650 m ³	Emergency Fire Pump	1 x 35m3/hr @ 60m Head	
Fuel Oil	1200 m ³			
Drill Water / Water Ballast	800 m³			
Dilli Water / Water Ballast	800 III			
	1			
	1			
	1			
	1			
		OTHERS		
DISCHARGE RATES		Dynamic Positioning System	Kongsberg - K-Pos DP-21 with cJoy Independent	
DISCHARGE RATES Potable Water	1 x 100M ³ /hr at 90m head		Kongsberg - K-Pos DP-21 with cJoy Independent Joystick System	
Potable Water	2	Dynamic Positioning System	Joystick System	
Potable Water Fuel Oil	1 x 100M ³ /hr at 90m head	Dynamic Positioning System	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5),	
Potable Water Fuel Oil Bilge / ballast/ Fire/ GS	1 x 100M ³ /hr at 90m head 2 x 100M ³ /hr at 80m head	Dynamic Positioning System	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat,	
Potable Water Fuel Oil Bilge / ballast/ Fire/ GS Bilge	1 x $100M^3$ /hr at $90m$ head 2 x $100M^3$ /hr at $80m$ head 2 x $52M^3$ /hr at $25m$ head	Dynamic Positioning System	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q , 1 x Tautwire 500, GPS/GLONASS	
Potable Water Fuel Oil Bilge / ballast/ Fire/ GS Bilge FO Transfer	1 x 100M ³ /hr at 90m head 2 x 100M ³ /hr at 80m head 2 x 52 M ³ /hr at 25m head 2 x 10 M ³ /hr at 20m head	Dynamic Positioning System	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat,	
Potable Water Fuel Oil Bilge / ballast/ Fire/ GS Bilge FO Transfer LO Transfer	1 x 100M ³ /hr at 90m head 2 x 100M ³ /hr at 80m head 2 x 52 M ³ /hr at 25m head 2 x 10 M ³ /hr at 20m head 1 x 8 M ³ /hr at 20m head	Dynamic Positioning System DP Sensors & Position Reference	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q , 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System	
Potable Water Fuel Oil Bilge / ballast/ Fire/ GS Bilge FO Transfer	1 x 100M ³ /hr at 90m head 2 x 100M ³ /hr at 80m head 2 x 52 M ³ /hr at 25m head 2 x 10 M ³ /hr at 20m head	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q, 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump)	
Potable Water Fuel Oil Bilge / ballast/ Fire/ GS Bilge FO Transfer LO Transfer Dirty Oil / Sludge	1 x 100M ³ /hr at 90m head 2 x 100M ³ /hr at 80m head 2 x 52 M ³ /hr at 25m head 2 x 10 M ³ /hr at 20m head 1 x 8 M ³ /hr at 20m head	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System Sewage Treatment Plant	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q , 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump) 1 x 60Men or equivalent	
Potable Water Fuel Oil Bilge / ballast/ Fire/ GS Bilge FO Transfer LO Transfer	1 x 100M ³ /hr at 90m head 2 x 100M ³ /hr at 80m head 2 x 52 M ³ /hr at 25m head 2 x 10 M ³ /hr at 20m head 1 x 8 M ³ /hr at 20m head	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q, 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump)	
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Potable Water Fuel Oil Bilge / ballast/ Fire/ GS Bilge FO Transfer LO Transfer Dirty Oil / Sludge MACHINERY Main Generator	1 x 100M³/hr at 90m head 2 x 100M³/hr at 80m head 2 x 52 M³/hr at 25m head 2 x 10 M³/hr at 20m head 1 x 8 M³/hr at 20m head 1 x 8 M³/hr at 30m head 4 x Wartsila 9L20 - 1,665kW @900rpm	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System Sewage Treatment Plant Oily Water Separator	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q , 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump) 1 x 60Men or equivalent 1 x 1m3/2 bar with 15ppm c/w Alarm or equivalent 1 x 10T/day Seawater RO	
Potable Water Fuel Oil Bilge / ballast/ Fire/ GS Bilge FO Transfer LO Transfer Dirty Oil / Sludge MACHINERY Main Generator Alternator	1 x 100M³/hr at 90m head 2 x 100M³/hr at 80m head 2 x 52 M³/hr at 25m head 2 x 52 M³/hr at 25m head 2 x 10 M³/hr at 20m head 1 x 8 M³/hr at 20m head 1 x 8 M³/hr at 30m head 4 x Wartsila 9L20 - 1,665kW @900rpm 4 x 1,784kVA, 690V/3Ph/60Hz @900rpm	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System Sewage Treatment Plant Oily Water Separator Water Maker	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q , 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump) 1 x 60Men or equivalent 1 x 1m3/2 bar with 15ppm c/w Alarm or equivalent 1 x 10T/day Seawater RO 6 Persons with Yanmar Inboard Diesel Engine with	
Potable Water Fuel Oil Bilge / ballast/ Fire/ GS Bilge FO Transfer LO Transfer Dirty Oil / Sludge MACHINERY Main Generator Alternator Main Propulsion	1 x 100M³/hr at 90m head 2 x 100M³/hr at 80m head 2 x 52 M³/hr at 25m head 2 x 10 M³/hr at 20m head 1 x 8 M³/hr at 20m head 1 x 8 M³/hr at 30m head 4 x Wartsila 9L20 - 1,665kW @900rpm 4 x 1,784kVA, 690V/3Ph/60Hz @900rpm 2 x Wartsila FS250-S/WN 1900kW @900rpm	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System Sewage Treatment Plant Oily Water Separator Water Maker	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q , 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump) 1 x 60Men or equivalent 1 x 1m3/2 bar with 15ppm c/w Alarm or equivalent 1 x 10T/day Seawater RO	
Potable Water Fuel Oil Bilige / ballast/ Fire/ GS Bilge FO Transfer LO Transfer Dirty Oil / Sludge MACHINERY Main Generator Alternator Main Propulsion Bow Thruster - Tunnel	1 x 100M³/hr at 90m head 2 x 100M³/hr at 80m head 2 x 52 M³/hr at 25m head 2 x 10 M³/hr at 20m head 1 x 8 M³/hr at 20m head 1 x 8 M³/hr at 30m head 4 x Wartsila 9L20 - 1,665kW @900rpm 4 x 1,784kVA, 690V/3Ph/60Hz @900rpm 2 x Wartsila F5250-SVM 1900kW @900rpm 2 x Wartsila F7175H-D 800kW Electric Drive	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System Sewage Treatment Plant Oily Water Separator Water Maker Fast Rescue Boat	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q , 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump) 1 x 60Men or equivalent 1 x 1m3/2 bar with 15ppm c/w Alarm or equivalent 1 x 10T/day Seawater RO 6 Persons with Yanmar Inboard Diesel Engine with	
Potable Water Fuel Oil Bilige / ballast/ Fire/ GS Bilge FO Transfer LO Transfer Dirty Oil / Sludge MACHINERY Main Generator Alternator Main Propulsion Bow Thruster - Tunnel	1 x 100M³/hr at 90m head 2 x 100M³/hr at 80m head 2 x 52 M³/hr at 25m head 2 x 10 M³/hr at 20m head 1 x 8 M³/hr at 20m head 1 x 8 M³/hr at 30m head 4 x Wartsila 9L20 - 1,665kW @900rpm 4 x 1,784kVA, 690V/3Ph/60Hz @900rpm 2 x Wartsila FS250-S/WN 1900kW @900rpm	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System Sewage Treatment Plant Oily Water Separator Water Maker Fast Rescue Boat ACCOMMODATION	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q , 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump) 1 x 60Men or equivalent 1 x 1m3/2 bar with 15ppm c/w Alarm or equivalent 1 x 10T/day Seawater RO 6 Persons with Yanmar Inboard Diesel Engine with Water Jet	
Potable Water Fuel Oil Bilige / ballast/ Fire/ GS Bilge FO Transfer LO Transfer Dirty Oil / Sludge MACHINERY Main Generator Alternator Main Propulsion Bow Thruster - Tunnel	1 x 100M³/hr at 90m head 2 x 100M³/hr at 80m head 2 x 52 M³/hr at 25m head 2 x 10 M³/hr at 20m head 1 x 8 M³/hr at 20m head 1 x 8 M³/hr at 30m head 4 x Wartsila 9L20 - 1,665kW @900rpm 4 x 1,784kVA, 690V/3Ph/60Hz @900rpm 2 x Wartsila F5250-SVM 1900kW @900rpm 2 x Wartsila F7175H-D 800kW Electric Drive	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System Sewage Treatment Plant Oily Water Separator Water Maker Fast Rescue Boat	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q , 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump) 1 x 60Men or equivalent 1 x 1m3/2 bar with 15ppm c/w Alarm or equivalent 1 x 10T/day Seawater RO 6 Persons with Yanmar Inboard Diesel Engine with Water Jet	
Potable Water Fuel Oil Bilge / ballast/ Fire/ GS Bilge FO Transfer LO Transfer Dirty Oil / Sludge MACHINERY Main Generator Alternator Main Propulsion	1 x 100M³/hr at 90m head 2 x 100M³/hr at 80m head 2 x 52 M³/hr at 25m head 2 x 10 M³/hr at 20m head 1 x 8 M³/hr at 20m head 1 x 8 M³/hr at 30m head 4 x Wartsila 9L20 - 1,665kW @900rpm 4 x 1,784kVA, 690V/3Ph/60Hz @900rpm 2 x Wartsila F5250-SVM 1900kW @900rpm 2 x Wartsila F7175H-D 800kW Electric Drive	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System Sewage Treatment Plant Oily Water Separator Water Maker Fast Rescue Boat ACCOMMODATION	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q, 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump) 1 x 60Men or equivalent 1 x 1m3/2 bar with 15ppm c/w Alarm or equivalent 1 x 10T/day Seawater RO 6 Persons with Yanmar Inboard Diesel Engine with Water Jet 10 x 1-berth Cabin = 10 men 25 x 2-berth Cabin = 50 men	
Potable Water Fuel Oil Bilige / ballast/ Fire/ GS Bilge FO Transfer LO Transfer Dirty Oil / Sludge MACHINERY Main Generator Alternator Main Propulsion Bow Thruster - Tunnel	1 x 100M³/hr at 90m head 2 x 100M³/hr at 80m head 2 x 52 M³/hr at 25m head 2 x 10 M³/hr at 20m head 1 x 8 M³/hr at 20m head 1 x 8 M³/hr at 30m head 4 x Wartsila 9L20 - 1,665kW @900rpm 4 x 1,784kVA, 690V/3Ph/60Hz @900rpm 2 x Wartsila F5250-SVM 1900kW @900rpm 2 x Wartsila F7175H-D 800kW Electric Drive	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System Sewage Treatment Plant Oily Water Separator Water Maker Fast Rescue Boat ACCOMMODATION	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q , 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump) 1 x 60Men or equivalent 1 x 1m3/2 bar with 15ppm c/w Alarm or equivalent 1 x 10T/day Seawater RO 6 Persons with Yanmar Inboard Diesel Engine with Water Jet	
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Potable Water Fuel Oil Bilige / ballast/ Fire/ GS Bilge FO Transfer LO Transfer Dirty Oil / Sludge MACHINERY Main Generator Alternator Main Propulsion Bow Thruster - Tunnel	1 x 100M³/hr at 90m head 2 x 100M³/hr at 80m head 2 x 52 M³/hr at 25m head 2 x 10 M³/hr at 20m head 1 x 8 M³/hr at 20m head 1 x 8 M³/hr at 30m head 4 x Wartsila 9L20 - 1,665kW @900rpm 4 x 1,784kVA, 690V/3Ph/60Hz @900rpm 2 x Wartsila F5250-SVM 1900kW @900rpm 2 x Wartsila F7175H-D 800kW Electric Drive	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System Sewage Treatment Plant Oily Water Separator Water Maker Fast Rescue Boat ACCOMMODATION	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q, 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump) 1 x 60Men or equivalent 1 x 1m3/2 bar with 15ppm c/w Alarm or equivalent 1 x 10T/day Seawater RO 6 Persons with Yanmar Inboard Diesel Engine with Water Jet 10 x 1-berth Cabin = 10 men 25 x 2-berth Cabin = 50 men Total 60 men	
Potable Water Fuel Oil Bilige / ballast/ Fire/ GS Bilge FO Transfer LO Transfer Dirty Oil / Sludge MACHINERY Main Generator Alternator Main Propulsion Bow Thruster - Tunnel	1 x 100M³/hr at 90m head 2 x 100M³/hr at 80m head 2 x 52 M³/hr at 25m head 2 x 10 M³/hr at 20m head 1 x 8 M³/hr at 20m head 1 x 8 M³/hr at 30m head 4 x Wartsila 9L20 - 1,665kW @900rpm 4 x 1,784kVA, 690V/3Ph/60Hz @900rpm 2 x Wartsila F5250-SVM 1900kW @900rpm 2 x Wartsila F7175H-D 800kW Electric Drive	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System Sewage Treatment Plant Oily Water Separator Water Maker Fast Rescue Boat ACCOMMODATION Cabins	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 1000Q , 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump) 1 x 60Men or equivalent 1 x 1m3/2 bar with 15ppm c/w Alarm or equivalent 1 x 1m3/2 bar with 15ppm c/w Alarm or equivalent 1 x 10T/day Seawater RO 6 Persons with Yanmar Inboard Diesel Engine with Water Jet 10 x 1-berth Cabin = 10 men 25 x 2-berth Cabin = 50 men Total 60 men Full A/C in all cabins, mess rooms, control rooms & offices	
Potable Water Fuel Oil Bilige / ballast/ Fire/ GS Bilge FO Transfer LO Transfer Dirty Oil / Sludge MACHINERY Wain Generator Alternator Main Propulsion Bow Thruster - Tunnel	1 x 100M³/hr at 90m head 2 x 100M³/hr at 80m head 2 x 52 M³/hr at 25m head 2 x 10 M³/hr at 20m head 1 x 8 M³/hr at 20m head 1 x 8 M³/hr at 30m head 4 x Wartsila 9L20 - 1,665kW @900rpm 4 x 1,784kVA, 690V/3Ph/60Hz @900rpm 2 x Wartsila F5250-SVM 1900kW @900rpm 2 x Wartsila F7175H-D 800kW Electric Drive	Dynamic Positioning System DP Sensors & Position Reference Ballast Water Treatment System Sewage Treatment Plant Oily Water Separator Water Maker Fast Rescue Boat ACCOMMODATION	Joystick System 3 x Gill Wind Sensors, 2 x MRU (MRU2 & 5), 1 x HiPAP 500, 2 x DGPS via Spotbeam & Inmarsat, 1 x Radius 10000, 1 x Tautwire 500, GPS/GLONASS 1 x Cyscan Laser Reference System Minimum 100m³/hr(capacity to suit one G.S. pump) 1 x 60Men or equivalent 1 x 1m3/2 bar with 15ppm c/w Alarm or equivalent 1 x 10T/day Seawater RO 6 Persons with Yanmar Inboard Diesel Engine with Water Jet 10 x 1-berth Cabin = 10 men 25 x 2-berth Cabin = 50 men Total 60 men Full A/C in all cabins, mess rooms, control rooms	

Particulars are believed to be correct but not guaranteed. Owners reserve the right to amend the specifications without notification

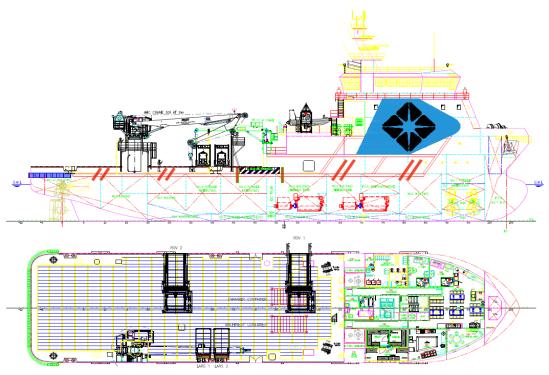
SURFACE ORIENTATED DIVE SYSTEM (MODULAR) Classification / Notation ABS +A1 Diving System (P) Industry Standard Compliance International Marine Contractors Association, IMCA Depth Rating 50 m s w CONTAINERIZED DECOMPRESSION CHAMBER STORAGE ROOM / COMPRESSOR ROOM 20 FT Offshore Container 20 FT Offshore Container 20 FT Offshore Container 20 FT Offshore Container Personnel Sea-Door with Integrated Window Personnel Sea-Door with Integrated Window Emergency Exit Door Gas Penetration Panel (AISI 316L) DP Status Panel Fire & Smoke Alarm System Gas Penetration Panel 1 (AISI 316L) 1 (AISI 316L) Closet Electrical Socket Electrical Distribution Panel 1 (440 V, 3 Ph., 60 Hz) UMBILICAL STORAGE Light Umbilical Storage Bracket Fire Deluge System Fire & Smoke Alarm System Fire Extinguisher Fire Extinguisher WORKSHOP / AIR STORAGE Main Electrical Cabinet **DECOMPRESSION CHAMBER** Chamber (Dia.: 1600 mm) Air Bank Cylinders (300 Bar, 50 L) Light 16 3 Diver Air & Oxygen Distribution Panel Wooden Bench HP Cylinder (50 L, 300 Bar) LP Vessel (500 L, WP: 16 Bar) Amcom II Double Lock Chamber Communication System 12 Sound Powered Phone Camera Monitoring and Recording System Fire Extinguisher **DIVE CONTROL ROOM** COMPRESSOR ROOM 3 Diver Air Panel 1 (AISI 316L) Liaht 3 Diver Video Monitoring and Recording System HP Compressor L & W320 ES Amcom III Deluxe 3 Diver Radio c/w Backup Battery Handheld Push To Talk (PTT) Microphone LP Compressor SCK-30-8 LP Air Filter System Spiromatic 90U Self-Contained Breathing Apparatus Set Electrical Socket Peltor Headset Fire Extinguisher Chamber Data Recording System Triple Timer / Stopwatch DIVING EQUIPMENT (OPTIONAL) TWIN LAUNCH AND RECOVERY SYSTEM (LARS) Superlite Helmet Hydraulic 'A' Frame 2 (SWL: 950 KG [AISI 316L]) Helmet Camera Clump Weight 2 (SWL: 200 KG [AISI 316L]) Helmet Light (LED) 3 Dive Stage / Basket (2 Divers) 2 (SWL: 250 KG [AISI 316L]) Hot Water Suit Set Payload 500 KG Wetsuit (2-piece) Set Man Rider Winch (Clump Weight) Man Rider Winch (Dive Stage) 2 (Dia.: 8 mm, Length:160 mtr) 2 (Dia.:10 mm, Length: 80 mtr) Bailout for Kirby Set Peli Super Saberlite #2000B Lamp Hydraulic Power Pack (HPU) 2 (210 Bar [42 L/min]) Green River Knife c/w Sheave (Sharp pt.) 2 (AISI 316L) 2 (500 Watt., 230 V) Bridge System Leadweight with Vinlycoating (W: 1 KG) 18 Leadweight with Vinlycoating (W: 2 KG) Flood Light Hydraulic Local Control Panel 36 2 (AISI 316L) Remote Control & Height Limiting Kit Air Cylinder c/w Regulator, Hose, Manometer & Mask 4 (300 Bar, 50 L) Umbilical Length (D1, D2 & STDBY Diver) Spiromatic 90U Self-Contained Breathing Apparatus Set 3 (100 mtr) Peltor Headset

POWER

Knife Switch Panel Terminal for Welding Cable (600 A)

REMOTELY OPERATED VEHICLES (ROV) SYSTEM

ROV Power Supplied ROV 1 / ROV 2 440 V. 360 kW (2 NO.) 110 V Panel 440 V -- 110 V -- 20 kVA 230 V Panel 440 V -- 230 V ---180 kVA **Emergency Panel** 440 V -- 200 kW



Twin Launch and Recovery System (LARS) 20 FT High Cube Offshore Container

Hydraulic 'A' Frame Clump Weight

Dive Stage / Basket (2 Divers)

Payload Man Rider Winch (Clump Weight) Man Rider Winch (Dive Stage)

Hydraulic Power Pack (HPU)

Bridge System Flood Light

Hydraulic Local Control Panel

Remote Control & Height Limiting Kit Air Cylinder c/w Regulator, Hose, Manometer & Mask

Umbilical Length (D1, D2 & STDBY Diver)
Spiromatic 90U Self-Contained Breathing Apparatus Set

Peltor Headset

Electric Hot Water Unit



1 (440 VAC, 3 Ph., 60 Hz, 94.5 kW, 130 A)

Fluid Heating Range: 0 - 42 °C



CONTAINERIZED DECOMPRESSION CHAMBER

Electrical Distribution Panel (440 V, 3 Ph., 60 Hz)

20 FT Offshore Container c/w Lifting Sing (WL: 10 Ton) Personnel Sea-Door with Integrated Window

20 FT Offshore Container

Emergency Exit Door DP Status Panel Gas Penetration Panel

Electrical Socket

Fire Deluge System Fire & Smoke Alarm System Fire Extinguisher

Sound Powered Phone Chamber Data Recording System Camera Monitoring and Recording System

DECOMPRESSION CHAMBER Chamber (Dia.: 1600 mm) Air Bank Cylinders (300 Bar, 50 L)

3 Diver Air & Oxygen Distribution Panel

Amcom II Double Lock Chamber Communication System



1 (AISI 316L)

2

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DIVE CONTROL ROOM

3 Diver Air Panel c/w emergency cross valve	1 (AISI 316L
3 Diver Video Monitoring and Recording System	1
Amcom III Deluxe 3 Diver Radio c/w Backup Battery	1
Handheld Push To Talk (PTT) Microphone	1
Spiromatic 90U Self-Contained Breathing Apparatus Set	1
Peltor Headset	1

STORAGE ROOM / COMPRESSOR ROOM

20 FT Offshore Container

20 FT Offshore Container c/w Lifting Sing (WL: 10 Ton)	1
Personnel Sea-Door with Integrated Window	1
Gas Penetration Panel	1 (AISI 316L)
Fire & Smoke Alarm System	1
Closet	1 (AISI 316L)



UMBILICAL STORAGE

Light	1
Umbilical Storage Bracket	4
Fire Extinguisher	1



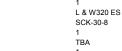
Main Electrical Cabinet	1
Light	2
Wooden Bench	1
HP Cylinder (50 L, 300 Bar)	12
LP Vessel (500 L, WP: 16 Bar)	1
Fire Extinguisher	1





Light HP Compressor LP Compressor LP Air Filter System Electrical Socket Fire Extinguisher	COMPRESSOR ROOM
LP Compressor LP Air Filter System Electrical Socket	Light
LP Air Filter System Electrical Socket	HP Compressor
Electrical Socket	LP Compressor
	LP Air Filter System
Fire Extinguisher	Electrical Socket
	Fire Extinguisher





DIVING EQUIPMENT	
Superlite Helmet	3
Helmet Camera	3
Helmet Light (LED)	3
Hot Water Suit Set	3
Wetsuit (2-piece) Set	3
Bailout for Kirby Set	3
Peli Super Saberlite #2000B Lamp	3
Green River Knife c/w Sheave (Sharp pt.)	3
Leadweight with Vinlycoating (W: 1 KG)	18
Leadweight with Vinlycoating (W: 2 KG)	36















