

**Technical Specifications
Liftboat Dixie Patriot
Owners Gulf Liftboat PTE L.L.C.**

A1 LIFTBOAT CLASS 280		
A1.1	GENERAL DESCRIPTION	
	TYPE	SELF ELEVATING LIFTBOAT
	UNIT NAME	M/V DIXIE PATRIOT
	YEAR OF CONSTRUCTION	2002
	CONSTRUCTION YARD	SEMCO SHIPYARD
	UNIT/SHAPE DESIGN	SQUARE-RAKED BOW AND STERN WITH 4 LEVEL CABIN
	OFFICIAL NUMBER	397852
	IMO NUMBER	8765694
	TONNAGE	2968 GT / 890 NT
HOME PORT	SINGAPORE	
A1.2	CLASSIFICATION	
	DNV CLASSED	1A1 R SELF ELEVATING OFFSHORE SUPPORT UNIT
	LAST ANNUAL SURVEY DATE	Vessel is undergoing 5 year special survey. Certificates will be completed by January 2018
	NEXT ANNUAL SURVEY DATE	April-19
	LAST DRY-DOCK SURVEY DATE	Vessel is undergoing 5 year special survey
A1.3	CERTIFICATION	
	DNV CERTIFICATION OF INSPECTION	MODU
	LAST ANNUAL INSPECTION DATE	Vessel is undergoing 5 year special survey. Certificates will be completed by January 2018
	NEXT ANNUAL INSPECTION DATE	April-19
	LAST DRY-DOCK SURVEY DATE	Vessel is undergoing 5 year special survey
A2 REGISTERED DIMENSIONS	A2.1 HULL	
	LENGTH	51.65 Meters
	BREADTH	34.53 Meters
	DEPTH	3.96 Meters
	A2.2 OVERALL	
	LENGTH OVERALL	53.8 Meters
	LENGTH OVERALL INCLUDING HELIPORT	76.66 Meters
	BREADTH OVERALL INCLUDING PADS	36.6 Meters
	A2.3 LEGS	
	NUMBER	3
TYPE	DOUBLE RACK PIPE CONSTRUCTION	
DIAMETER	3.175 CM X 2.62 M	
LENGTH	85.34 Meters	
WEIGHT (EACH)	260.3 MT	
A2.4	FOOTINGS	
	FOOTING TYPE	RECTANGULAR COMPARTMENTIZED PAD
	FORWARD FOOTINGS DIMENSION	14.95 M X 8.84 M X 1.52 M
	AFT FOOTING DIMENSIONS	11.58 M X 12.19 M X 1.52 M
JETTING SYSTEM	YES COMPRESSED AIR OR SEA WATER	
A3 LIMITS OF SERVICE		
A3.1	TRANSIT CONDITIONS	
	MAXIMUM CRUISING SPEED	4.1 M/S
	MAXIMUM WIND SPEED	36 M/S
MAXIMUM WAVE HEIGHT / PERIOD	1.52 M	
A3.2 ELEVATED CONDITIONS		
A3.2a	NORMAL OPERATING	MAXIMUM WATER DEPTH
	MAXIMUM ELEVATED LOAD	2589.1 MT
	MAXIMUM VARIABLE LOAD (Inclusive of temporary modular accommodation)	115 MT
	WIND SPEED	36 MS
	WATER DEPTH	60.9 M
	AIR GAP	9.8 M
	LEG PENETRATION	3.1 M
	WAVE HEIGHT / PERIOD	3.7 M @ 6.5 SEC
	CURRENT SPEED	.51 M/S
		NORMAL OPERATING
MAXIMUM ELEVATED LOAD		2589.1 MT
MAXIMUM VARIABLE LOAD (Inclusive of temporary modular accommodation)		115 MT
WIND SPEED		36 MS
WATER DEPTH		40.2 M
AIR GAP		30.5 M
LEG PENETRATION		3.1 M
WAVE HEIGHT / PERIOD		3.7 M @ 6.5 SEC
CURRENT SPEED		.51 M/S

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A3.2b	SEVERE STORM	<small>HARBOR OF SAFE REFUGE</small>
	MAXIMUM ELEVATED LOAD	2589.1 MT
	MAXIMUM VARIABLE LOAD (Inclusive of temporary modular accommodation)	115 MT
	WIND SPEED	51.4 M/S
	WATER DEPTH	21.3 M
	AIR GAP	6.0 M
	LEG PENETRATION	3.1 M
	WAVE HEIGHT / PERIOD	4.6 M @ 9SEC
	CURRENT SPEED	.51 M/S
A3.3	JACKING CONDITIONS	
	WAVE HEIGHT / PERIOD	1.52 M
	CURRENT SPEED	DIRECTIONAL DEPENDENT
	LOCATION SET UP	Sea bed survey and rig history / pipelines and safe jacking areas marked
A3.4	PRELOADING CONDITIONS	
	PRELOAD REQUIREMENT	MANDATORY UNDER ALL CONDITIONS
	DURATION	SUBJECT TO BOTTOM CONDITIONS
	PRELOAD HEIGHT	MAXIMUM .06 M ABOVE EXPECTED SEA STATE
	MAXIMUM PRELOAD AVAILABLE UNDER NORMAL PRELOADING	1418.4 MT
A3.5	VARIABLE DECK LOAD	
	TRANSIT CONDITIONS (Inclusive of temporary modular accommodation)	115 MT
	PRELOADING / JACKING (Inclusive of temporary modular accommodation)	115 MT
	ELEVATED OPERATIONS (Inclusive of temporary modular accommodation)	115 MT
A3.5	VARIABLE LOAD	<small>MAXIMUM VALUES</small>
	DECK LOAD (Inclusive of temporary modular accommodation)	115 MT
	CONSUMABLE FLUIDS	261.2 MT
	CREW AND EFFECTS	9.9 MT
	STORES AND PROVISIONS	3.2 MT
	HELICOPTER	7.0 MT
A3.5	STORAGE CAPACITIES	
	DIESEL FUEL	162772 Lt
	HYDRAULIC FLUID	18927 Lt
	LUBE OIL	3539 Lt
	POTABLE WATER	167309 Lt
	O-POLLUTION CONTAINMENT	151416 Lt
	BUFFER TANK CAPACITY	11606 Lt
A4 PROPULSION MACHINERY SYSTEMS		
A4.1	MAIN PROPULSION	
	NO. OF UNITS	2
	MAKE TYPE AND MODEL	CATERPILLAR MODEL 3512 IMO CERTIFIED
	RATED POWER (HP / RPM)	1675 HP @ 1600 RPM
	FUEL CONSUMPTION	246 Lt PER HOUR
A4.2	REDUCTION GEAR	
	MAKE TYPE AND MODEL	TWING DISC MODEL MG-5600
	RATIO	6:1
A4.3	RUNNING GEAR	
	SHAFTING	18 CM DIA AQUAMET 17 STAINLESS STEEL
	PROPELLERS	2 KAPLAN 200 CM X 193 CM C 178 STAINLESS
	NOZZLE	203 CM TYPE 19 A KORT NOZZLE
A4.3	BOW THRUSTER	
	MAKE AND MODEL	SMI MODEL 500
	TYPE	ELECTRIC TUNNEL
	RATED POWER (HP / RPM)	500 HP

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A5 ELECTRICAL GENERATOR SYSTEMS

A5.1	SHIP SERVICE GENERATOR	
	NO. OF UNITS	3
	MAKE TYPE AND MODEL	(2) CATERPILLAR MODEL 3412 DITA , (1) CATERPILLAR C-18 ACERT
	RATED POWER (HP / RPM)	425 EKW @1800 RPM 480 VLT 3 PHZ 60 HZ
	FUEL CONSUMPTION	113 Lt PER HOUR
A5.2	SHIP EMERGENCY GENERATOR	
	NO. OF UNITS	1
	MAKE TYPE AND MODEL	CATERPILLAR MODEL 3306DITA
	RATED POWER (HP / RPM)	190 EKW @1800 RPM 480 VLT 3 PHZ 60 HZ
	FUEL CONSUMPTION	68 Lt PER HOUR
A5.3	POWER DISTRIBUTION	
	SHIPS SERVICE SWITCHBOARD	G.E. DUAL 425 EKW GENSETS 480 VLT PARALLEL
	EMERGENCY SERVICE SWITCHBOARD	G.E. 190 EKW 480 V AUTO START AND TRANSFER
	DISTRIBUTION PANELS	480 VLT 22 VOLT 110 VLT
	TRANSFORMER 1	75 KVA 480 VLT 3 PH 60 HZ TO 120/208V 3 PHZ 60 HZ
	TRANSFORMER 2	30 KVA 480 VLT 3 PH 60 HZ TO 120/208V 3 PHZ 60 HZ

A6 DOUBLE RACK AND PINION JACKING SYSTEM

A6.1	PRIME MOVER	
	NO. OF UNITS	2
	MAKE TYPE AND MODEL	CATERPILLAR MODEL 3412DITA
	RATED POWER (HP / RPM)	764 HP @ 2100 RPM INTERMITTENT
	FUEL CONSUMPTION	113 Lt PER HOUR
A6.2	HYDRAULIC JACKING SYSTEM	
	TYPE	OPEN LOOP W/ TRIPLE REDUNDANT BRAKING
	PUMP DRIVE UNITS	2 COTTA PD - 330
	PUMPS	6 VICKERS-HYDRO CRAFT 500 CM3/RV
	HYDRAULIC MOTORS	30 LINDE HMV 105b (10 PER LEG TOWER)
	PLANETARY	30 FAIRFIELD S200 (10 PER LEG TOWER)
	JACKING SPEED	1.5 M PER MINUTE

A7 PUMP SYSTEMS

A7.1	FIRE PUMPS	
	NO. OF UNITS	2
	MAKE TYPE AND MODEL	AURORA MODEL 344.3 CENTRIFUGAL
	RATED POWER	1514 Liters /min @ 91.4 TDH
A7.2	SUBMERSIBLE PUMPS	
	NO. OF UNITS	2
	MAKE TYPE AND MODEL	CROWN MODEL 8H-1000 2 STAGE 60 HP MOTOR
	RATED POWER	4543 Liters /min @ 37 m TDH
A7.3	BILGE AND BALLAST PUMPS	
	NO. OF UNITS	2
	MAKE TYPE AND MODEL	MP FLOMAX 40.4 SELF PRIMING CENTRIFUGAL
	RATED POWER	2271 Liters /min @ 24 m TDH
A7.4	POTABLE WATER PUMPS	
	NO. OF UNITS	2
	MAKE TYPE AND MODEL	AURORA MODEL 321 5 HP CENTRIFUGAL
	RATED POWER	105 Liters /min @ 58 m TDH
A7.5	HIGH PRESSURE WASH DOWN PUMP	
	NO. OF UNITS	1
	MAKE TYPE AND MODEL	CAT MODEL 1050 15 HP FRESH WATER
	RATED POWER	55Liters /min @ 155 BAR

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A7.6	GENERAL SERVICE PUMP	
	NO. OF UNITS	1
	MAKE TYPE AND MODEL	AURORA MODEL 344.3 CENTRIFUGAL
	RATED POWER	4543 Liters /min @ 37 m TDH
A7.7	FUEL OIL TRANSFER PUMP	
	NO. OF UNITS	2
	MAKE TYPE AND MODEL	ROPER MODEL 2am27
	RATED POWER	163Liters /min @ 6.8 BAR
A7.8	FUEL FILTRATION PUMP	
	NO. OF UNITS	1
	MAKE TYPE AND MODEL	KAYDON VKS WITH VIKING PUMP MODEL HL 4195
	RATED POWER	113Liters /min
A7.9	OILY WATER SEPARATOR	
	NO. OF UNITS	1
	MAKE TYPE AND MODEL	HELI-SEP 500 WITH MONITOR
	RATED POWER	83Liters /min
A7.10	WASTE OIL PUMP	
	NO. OF UNITS	1
	MAKE TYPE AND MODEL	ROMPER MODEL 2am08
	RATED POWER	56 Liters /min
A8 COMPRESSED AIR SYSTEM		
A8.1	AIR COMPRESSOR	
	NO. OF UNITS	2
	MAKE TYPE AND MODEL	QUINCY QR-25 SERVICES MODEL 390 SKID MOUNTED
	RATED POWER	4 STROK 20 HPO MAX CAPACITY 16 BAR (SHIPS SUPPLY ONLY)
A8.2	AIR RECEIVER	
	NO. OF UNITS	2
	MAKE TYPE AND MODEL	ROY C HANSON VERTICAL RECEIVER
	RATED POWER	13.8 BAR @203 C 908 LTS CAP
A9 NAVIGATION AND COMMUNICATION EQUIPMENT		
A9.1	BRIDGE NAVIGATION ELECTRONICS	
	RADAR	JRC JMA 7710 ARPA
	GRYO COMPASS	YOKOHAMA MZ 500
	GYRO REPEATERS	RX-223 2- BRIDGE 1- REMOTE STA IN ENGINE ROOM
	MAGNETIC COMPASS	1 RITCHIE MODEL 500
	GMDSS	JRC A3 SOLAS / GMDSS HF-MF TELEX CONSOLE
	NAVTEX	JRC NCR 330
	DEPTH SOUNDER	FURUNO FCV HI LO FREQUENCY
	DGPS	JRC NAV 500/200 DGPS
	DSC VHF #1	JHS-32A
	DSC VHF #2	FURUNO 8800
	A.I.S.	JRC JHS-182
	GPS W ELECTRONIC CHART POSITION	GARMIN GMAP 232
	ENGINE ORDER TELEGRAPH	PMC TYPE 8202 CONTROL
	SHIPS HORN	KAHLENBERG D-2 WITH FOG SIGNAL CONTROLS
	WIND INSTRUMENTATION	YOUNG 85000 ULTRASONIC WIND TRACKER
A9.2	NAVIGATION LIGHTING	
	RUNNING MAST NOC NAVIGATION LIGHTS	SOLAS DOUBLE LENS DOUBLE LIGHT FIXTURES
	SEARCH LIGHTS	2 PERKO MODEL 1900 SEARCH LIGHTS
	GYRO REPEATERS	FAA APPROVED LIGHTING ARRANGEMENT
A9.3	ONBOARD COMMUNICATION	
	VESSEL UNDERWAY	LIMITED CELL PHONE VHF SINGLE SIDEBAND
	VESSEL ON LOCATION	SATELLITE FAX PHONE INTERNET AND SAT TV

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A10 SAFETY AND EMERGENCY SYSTEMS

A10.1	LIFESAVING EQUIPMENT	
	PERSONAL FLOATATION DEVICES	2 TIMES MAXIMUM POB
	LIFE BOUYS	PER FLAG STATE REQUIREMENTS
	LIFERAFT	6- 25 MAN DAVIT LAUNCHED ZODIAC LIFE RAFT
	LIFE RAFT DAVITS	NE DECK MARINE MANUAL SLEWING
	LIFE BOAT	2 x 75 PERSONS PORT AND STARBOARD WITH MUSTER STATION
	EPIRB	1 ACR MODEL CAT 1 406 MZ
	SARTS	2 ACR MODEL PATHFINDER 3 9.5 GHZ
	RESCUE BOAT	6 PERSON DIESEL RR-4.5 ED
	RESCUE BOAT DAVIT	HYDRAULIC PIVOTING SYSTEM "PRHE 30"
	SOLAS SURVIVAL VHF RADION	4 ACR MODEL 16/6 SURVIVAL 2 CH SURVIVAL VHF
	LINE THROWING DEVICE	1 BRIDGER 45 CAL MODEL 85 SHOULDER MOUNT
	ANCHOR	DANFORTH 1500 lb. WITH 13 SHOTS (1180') CHAIN
A10.2	FIRE SUPPRESSION SYSTEM	
	FIRE PUMPS	2 URORA 344 1514 LITERS PER MIN @ 91.4 M tdh
	FIRE STATIONS	14 15.2 M X 3/8 CM FIRE HOSE WITH COMBO NOZZLES LE
	FOAM INDUCTION UNITS	2 UNITS LOCATED AT HELIPORT
	FIRE SUITS	2 COMPLETE SETS
	PORTABLE EXTINGUISHERS	52 TTL CO2 ; DRY CHEM ; FOAM
	FIXED SYSTEMS	FIXED CO2 319 KG MANUAL RELEASE TIME DELAY
	GALLEY HOOD SYSTEM	ANSUL R-102
	VENTILATION SHUTDOWN	MANUAL REMOTE AND AUTO SENSORS
A10.3	FIRE DETECTION SYSTEM	
	MONITOR SYSTEM	ANSUL IQ -301
	MAKE AND TYPE	16 ZONE 68 THERMAL AND SMOKE SENSORS
	ALARM TYPE	GENERAL ALARM HORN AND LOUDHAILER

A11 ACCOMMODATION FACILITIES

A11.1	LIVING QUARTERS	
	NUMBER OF STATEROOMS	14
	TOTAL NUMBER OF BEDS	47
	NUMBER OF STATEROOMS (DECK)	22
	TOTAL NUMBER OF BEDS (DECK)	18
	TOTAL BEDS AVAILABLE TO CLIENT (INCLUSIVE OF CATERING)	100
	TOTAL BEDS AVAILABLE FOR CREW	18
	SENIOR STAFF ROOMS (to client) (3 with 4 beds) (4 with 1 bed)	7
	<i>NOTE: SENIOR STAFF / COMPANY MAN HAS 2 FULL SIZE BEDS WITH TOP BED FOLDED UP AS PER CUSTOMERS REQUIREMENTS WITH PRIVATE WC AND SHOWERS</i>	
	COMPANY MANS OFFICE (deck)	2 x 4 man
	COMPANY MANS OFFICE (vessel)	1 x 2 man
	COMMUNICATION FOR CUSTOMER	
	MEDICAL HOSPITAL FACILITIES	PROVIDED VIA ABS APPROVED MODULAR ACCOMMODATIONS ON DECK
	RECREATION ROOM / LOUNGE / MOSQUE	2 TV ROOM / 1 MOSQUE / 1 GYM
	LAUNDRY	SEPARATE FROM ACCOMMODATION 14 WASHER AND 14 DRYER HEAVY DUTY
	GYMNASIUM	1
HELIPORT BRIEFING ROOM	1	
A11.2	MESS FACILITIES	
	MESS CAPACITIES	SEATING FOR 75 AT ONE SEATING
	AMENITIES	HOT/COLD DRINKS HOT/COLD BUFFETS
	MANNING NORMAL OPERATIONS	TBD
A11.3	GALLEY FACILITIES	
	STOVES	2 LANG MARINE 6 BURNER STOVE TOP OVEN, 1 MESSRS HAFOS 1 Set
	GRILL	1 LANG MARINE GRILL TOP OVEN
	SALAD TABLE	1 MERRS
	DEEP FRYERS	1 LANG MARINE MODEL 28SM DOUBLE FRYER
	WALKIN FREEZER AND REFRIGERATOR	22.82 M ³
	DRY GOOD STORAGE	25SQ M
	DISHWASHER	HOBART
	ICE MACHINE	C-1448 1400 LB CUBE
	STEAM TABLE	1-66 SLOT STEAM TABLE

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A12 CRANE SYSTEMS

A12.1	PORT CRANE	
	MAKE / MODEL	SEATRAX MODEL LM 10532
	BOOM TYPE	LATTICE
	BOOM LENGTH	42 M
	MAIN HOIST CAPACITY	182 MT
	AUXILIARY HOIST CAPACITY	24. 8 MT AT ALL ANGLES
	RADIUS LIMITS	360 DEGREES
	PRIME MOVER	CATERPILLAR MARINE MODEL 3412 DITA
	FUEL CONSUMPTION	113 LTS PER HOUR
	CERTIFICATION / CLASS	ABS HEAVY LIFT
	LAST ANNUAL INSPECTION	10-May-16
	NEXT ANNUAL INSPECTION	10-May-17
	LAST LOAD TEST	110%
	OPERATOR COMMUNICATION	VHF LOUDHAILER
LOAD INDICATOR SYSTEM	A2B 900 HZ	
HELICOPTER WARNING LIGHT	BOOM MOUNTED DAYLIGHT STROBE BEACON	

A12.2	STARBOARD CRANE	
	MAKE / MODEL	SEATRAX MODEL LM 10532
	BOOM TYPE	LATTICE
	BOOM LENGTH	55 M
	MAIN HOIST CAPACITY	138 MT
	AUXILIARY HOIST CAPACITY	24. 8 MT AT ALL ANGLES
	RADIUS LIMITS	360 DEGREES
	PRIME MOVER	CATERPILLAR MARINE MODEL 3412 DITA
	FUEL CONSUMPTION	113 LTS PER HOUR
	CERTIFICATION / CLASS	ABS HEAVY LIFT
	LAST ANNUAL INSPECTION	10-May-16
	NEXT ANNUAL INSPECTION	10-May-17
	LAST LOAD TEST	110%
	OPERATOR COMMUNICATION	VHF LOUDHAILER
LOAD INDICATOR SYSTEM	A2B 900 HZ	
HELICOPTER WARNING LIGHT	BOOM MOUNTED DAYLIGHT STROBE BEACON	

A13 HELIPORT

A13.1	SPECIFICATIONS	
	SIZE	17.5 METERS
	CAPACITY	7. TONS
	APPROVED FOR	BELL 412; 212 AND AW 139
	OPERATIONAL LIMITS	OPERATIONAL ONLY AFTER VESSEL HAS BEEN PRELOADED
	FIRE PROTECTION	FOAM FIRE FIGHTING AS PER CAP 437 REQUIREMENTS
	THIRD ESCAPE	YES
	LIGHTING	AS PER CAP 437 / UAE REQUIREMENTS
	MANUFACTURED BY	HELIDEX (usa)
	REFUELING CAPABILITIES	NONE

A14 SEWAGE TREATMENT PLANT

A14.1	SPECIFICATIONS	
	MANUFACTURER	REDFOX ENVIRONMENTAL SERVICES
	MODEL	(1) RF-4000-M, (1) RF-2500-FP-UNITIZED
	CAPACITY	(1) 15M3 PER DAY, (1) 1,650 to 3,325 gallons per day
	CERTIFICATIONS	USCG & IMO
RATED CAPACITY	(1) BLACK WATER - 200 PERSONS, BLACK AND GREY WATER - 80 PERSONS, (1) BLACK WATER - 200 PERSONS, BLACK AND GREY WATER - 150 PERSONS	