



SEA SERAYA

TECHNICAL SPECIFICATIONS

GENERAL

Type	AHT
Classification	Bureau Veritas Hull • Mach • AUT-UMS - Tug - Fire Fighting ship 1 - Water spraying / unrestricted
MMSI	244480000
IMO number	9662368
Year built	2013
Flag	Dutch
Port of registry	Vlissingen
Call sign	PHIT

DIMENSIONS

Length	51,80 m
Breath overall	15,00 m
Minimum draft	6,00 m
Operational Draft	6,50 m
Maximum draft	6,70 m
Minimum air draft	26,30 m
Maximum air draft	26,30 m
Gross tonnage	1463 t
Net tonnage	439 t

PERFORMANCE

BollardPull	120 t
Maximum speed	13,50 knots
Economic speed	8,00 knots
Horse power	2x3,650 bhp

TANK CAPACITY

Fuel oil	860,20 m³
Fresh water	120,40 m³
Lubrication oil	15,30 m³
Dirty oil	7,40 m³
Sewage	15,00 m³
Bilge water	12,50 m³

PROPULSION SYSTEM

Main engines	Wartsila / 8L26A
Total power	2x 2720 kW/ 2x3646 BHP @ 1000 RPM
Propulsion	2x4 bladed/ Kawasaki CPP 900CB / 150G / Dia : 3500 mm
Bowthruster	2x Tunnel thruster/ Kawasaki/ Type: KT-55B3 / Dia 1300 mm 388kW
Propellers	2 x CPP in Kort nozzles
Stern thruster	1x 6 t thrust, CPP

FIFI

System	FIFI 1
Type	AZCUE / CA50 / 7A / 60 m³/ hr @9 bar, height 55 m
Capacity	2 x 1200 m³ / hr

DECK CRANE

Type	Tech crane TC60-56-100
Capacity	SWL 15 t @ 3 m/10 t @ 7,5 m/ 1 t @ 30 m



SEACONTRACTORS

The information contained in this data sheet is for guidance purposes only and may be subject to changes

DECK EQUIPMENT

Free deckspace	153 m ²
Deck strength	5,0 t/m ²
Tugger winch	2x 10 t @ 15 m / min
Captstan	2x 5 t @ 0 - 15 m / min
Pushbow	Full length rubber fendered

TOWING EN ANCHOR HANDLING

Towing winch	Rolls Royce / TAW 2000/ 2000H
Anchor Handling Winch	1 drum / 1200 mtr x 64 mm capacity
Drum capacities	1,200 m x 64 mm
Brake holding	275 t
Line pull @ 1 st layer	200 t @ 7m/min 100 t @ 13 m/min
Storage reels	3x hydraulic 1,000 m x 64 mm
Kram Fork	2x300 t SWL
Towing pins	2x closed type
Stern roller	Stern Roller (Horizontal) - 300 t

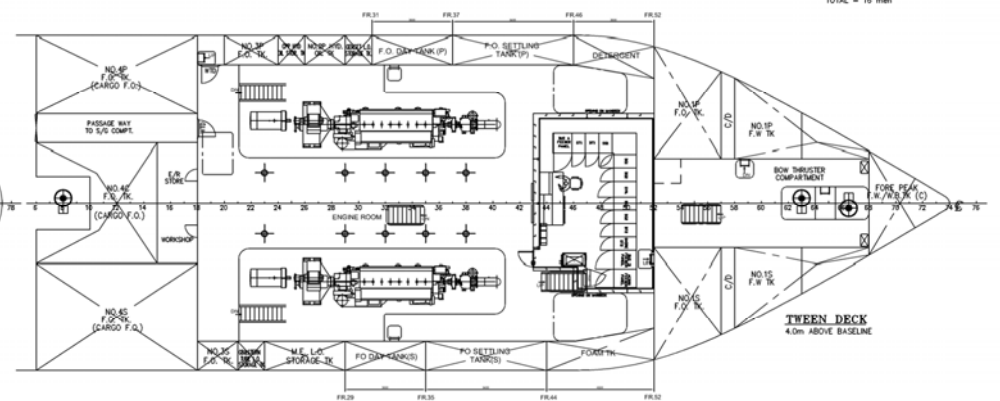
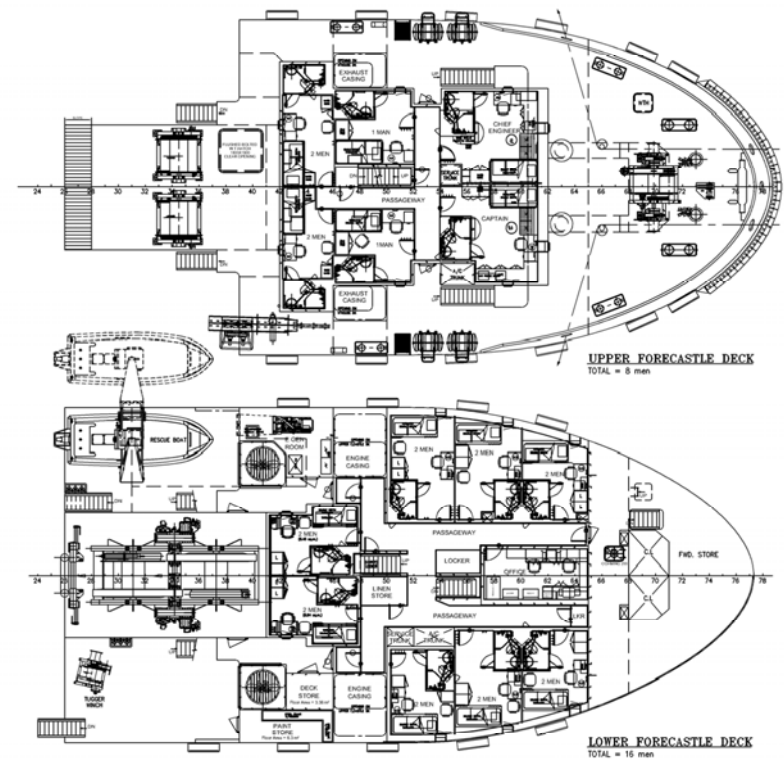
AUXILIARY EQUIPMENT

Main generator sets	2x425 kW & 1x340 kW
Fuel oil transfer pump	Azcue 100 m ³ / hr
Fresh water transfer pump	Azcue 70 m ³ / hr
Fresh water maker	4 m ³ every 24 hr
Air compressor	Yes
Shaft generator	2x1000 kW

ACCOMMODATION

Persons	24
Single cabin	4
Double cabin	10
Air conditioned	Yes





LENGTH O.A. _____ 51.80m
LENGTH B.P. _____ 44.40m
LENGTH W.L. @ 85%D _____ 49.14m
BEAM MLD. _____ 15.00m
DEPTH MLD. _____ 6.50m
DESIGN DRAFT MLD. _____ 5.00m
MAX. DRAFT MLD. _____ 5.70m
COMPLEMENT _____ 24 MEN
FUEL OIL _____ 592.8m³
CARGO FUEL OIL _____ 346.1m³

1. COMBINED BALLAST WATER (F.W./W.B. TK)
ARE NOT DEDICATED SEAWATER BALLAST TANK.
2. CARGO F.O. FLASH POINT $>60^{\circ}\text{C}$.

Boka DrwNo: 15-005511-01

DATE	DATE	CLASSIFICATION	REV	BY
SHIP:				
95t B.P. A/C/TOWING TUG				
TITLE: General Arrangement				
OWNER	SMT SINGAPORE PTE LTD			YARD NO.
BUILDER	QUANG SHIPBUILDING CO. LTD. COSC			G01-2010-19
CLASS	ABS +A1 @ +AMS, F1 CLASS 1, TOWING & ANCHOR SERVICES, UNLTD			G01-2010-20
WARTSILA SHIP DESIGN SINGAPORE PTE. LTD				
14 BEND CRESCENT, SINGAPORE 629077				
TEL: (65)650-1138 FAX: (65)650-1138, E-MAIL: shipdesign@wartsila.com				
DRAWN		CHECKED	APPROVED	SCALE
23.06.14	24.06.14	1:125	C4688/G-1	K
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