



# 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
Breadth 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

### TANK CAPACITY

Fuel oil	860.2 m <sup>3</sup>
Fresh water	120.4 m <sup>3</sup>
Lubrication oil	15.3 m <sup>3</sup>
Dirty oil	7.4 m <sup>3</sup>
Sewage	15.0 m <sup>3</sup>
Bilge water	12.5 m <sup>3</sup>

### PERFORMANCE

BollardPull	120 t
Maximum speed	13,50 knots
Economic speed	8,00 knots
Horse power	2 x 3,650 bhp

### PROPULSION SYSTEM

Main engines	Wartsila / 8L26A
Total power	2x 2720 kW / 2x 3646 BHP @ 1000 RPM
Propulsion	2x 4 Bladed / Kawasaki / CPP 900CB/150G / Dia: 3500 mm
Bowthruster	2x Tunnel thruster / Kawasaki / Type: KT-55B3 Dia: 1300 mm / 388 kW
Propellers	2 x CPP in Kort nozzles
Stern thruster	1 x 6 t thrust, CPP

### FIFI

System	FIFI 1
Type	AZCUE / CA50/7A // 60 m <sup>3</sup> /hr @ 9 bar, Height 55mtr
Capacity	2x 1200m <sup>3</sup> / hr

### DECK CRANE

Type	Tech Crane TC60-56-100
Capacity	SWL 15T @ 3 m / 10T @ 7.5 m / 1 ton @ 30 m

### DECK EQUIPMENT

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

### AUXILIARY EQUIPMENT

Main generator sets	2x 425kW & 1x 340kW
Fuel oil transfer pump	Azcue 100 m <sup>3</sup> /hr
Fresh water transfer pump	Azcue 70 m <sup>3</sup> /hr
Fresh water maker	4m <sup>3</sup> every 24 hrs
Air compressor	Yes
Shaft generator	2 x 1,000 kW

### ACCOMMODATION

Persons	24
Single cabin	4
Double cabin	10
Air conditioned	Yes



**SEA CONTRACTORS**

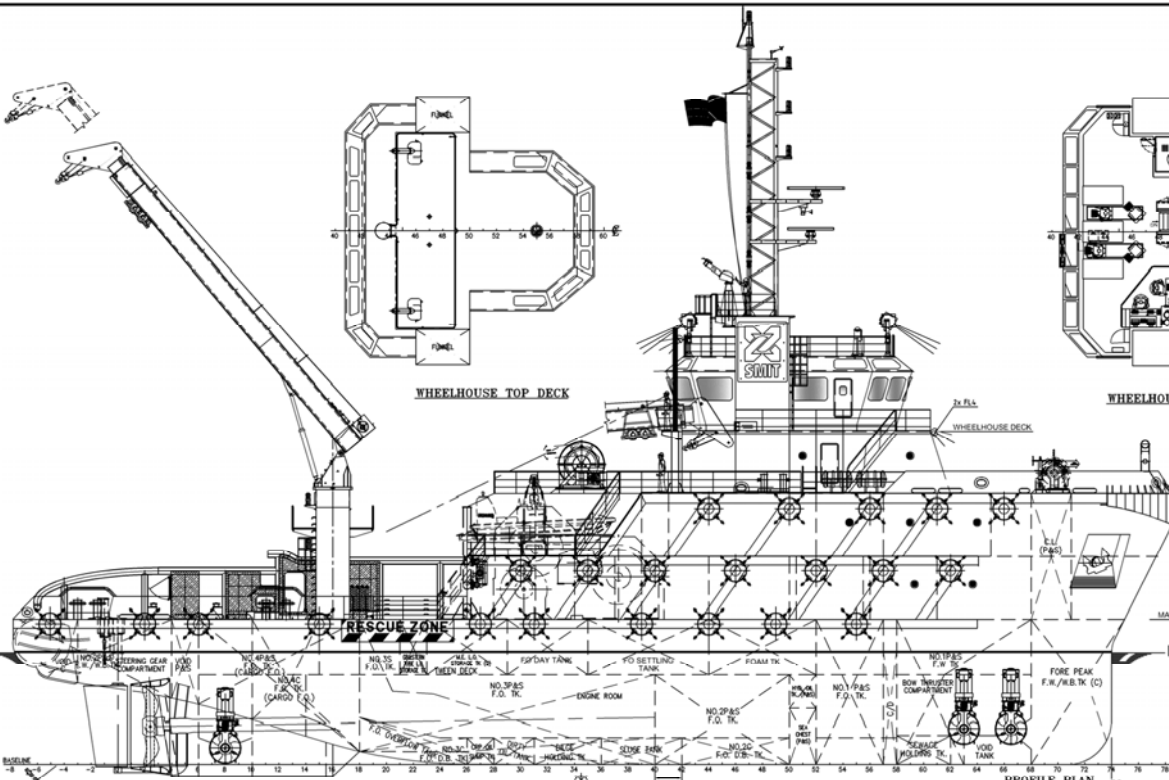
SEA CONTRACTORS | VISSERIJKADE 95 | 4382 ZA VLISSINGEN | THE NETHERLANDS | T: +31 (0) 118 410 520 | WWW.SEA CONTRACTORS.COM | INFO@SEA CONTRACTORS.COM

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

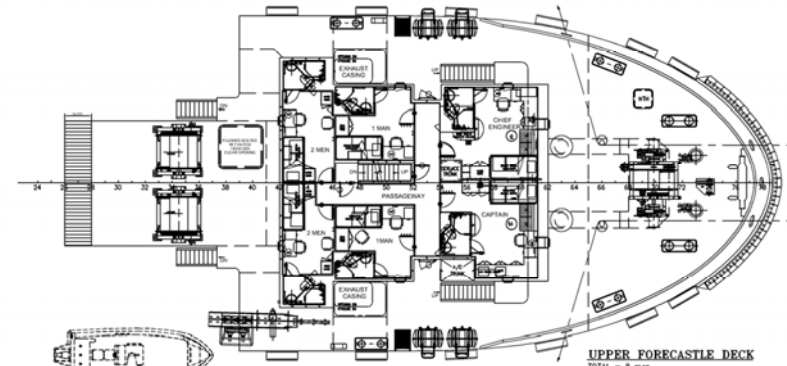
## TOWING EN ANCHOR HANDLING

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

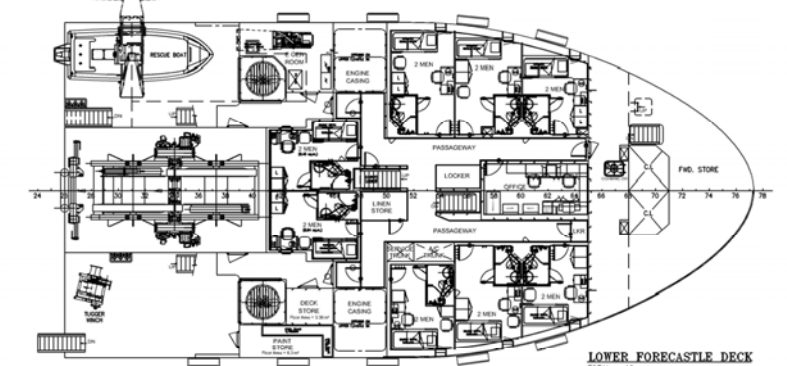




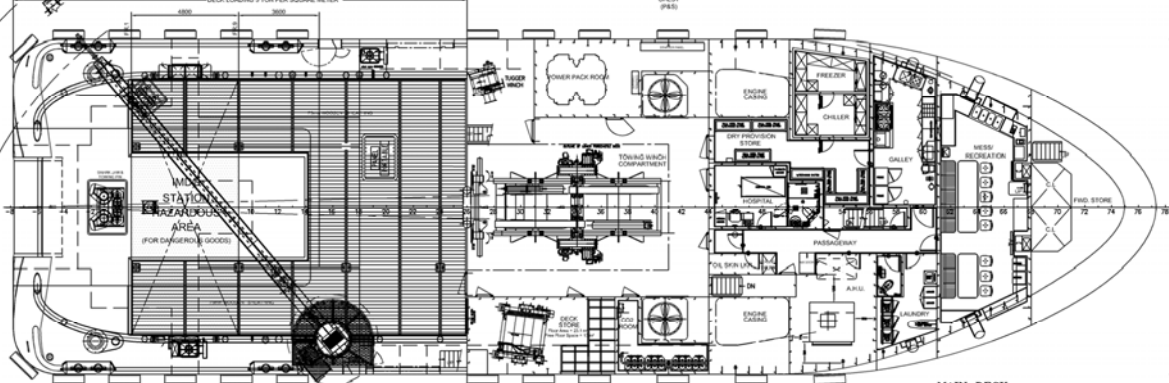
PROFILE PLAN



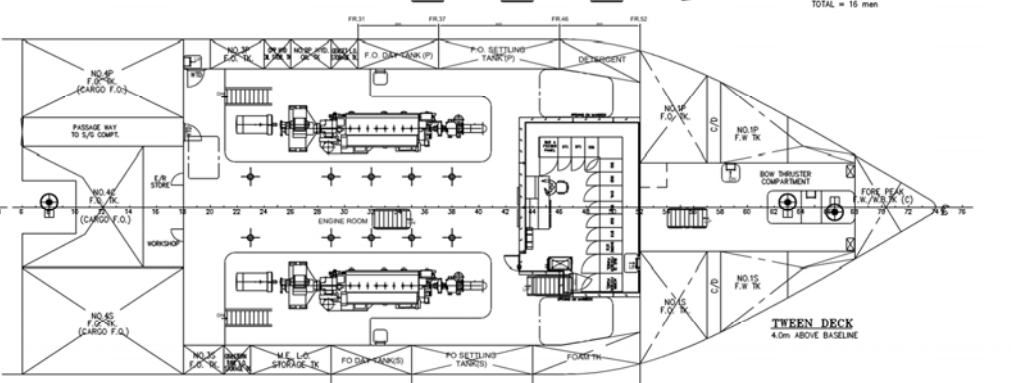
UPPER FORECASTLE DECK  
TOTAL = 8 men



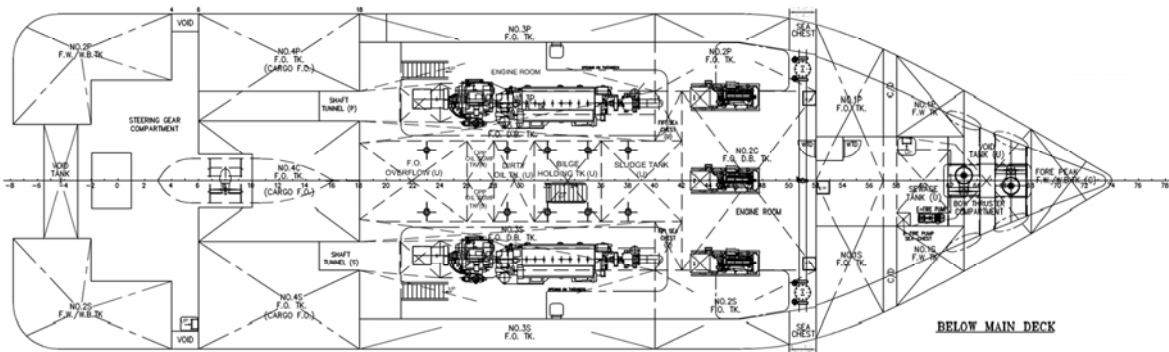
LOWER FORECASTLE DECK  
TOTAL = 16 men



MAIN DECK



THIRTEEN DECK  
4.0m ABOVE BASELINE



BELOW MAIN DECK

**NOTE:**  
1. COMBINED BALLAST WATER (F.W./W.B. TK) ARE NOT DEDICATED SEAWATER BALLAST TANK.  
2. CARGO F.O. FLASH POINT >60C.

**PRINCIPAL PARTICULARS**

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	592.8m <sup>3</sup>
CARGO FUEL OIL	346.1m <sup>3</sup>

Boka DrwNo: 15-005511-01

DATE	MODIFICATION	REV	BY

SHIP: 95t B.P. A.H./TOWING TUG

TITLE: General Arrangement

OWNER	SMT SINGAPORE PTE LTD	YARD NO.	
BUILDER	QILANG SHIPBUILDING CO. LTD CSSC		
CLASS	ABS - A1 00 - JAMS, FPI CLASS I, TOWING & ANCHOR SERVICES, UMSL		

WARTSILA SHIP DESIGN SINGAPORE PTE. LTD.  
14 BEND CRESCENT, SINGAPORE 039777  
TEL: (65)662-1138 FAX: (65)662-1231, E-MAIL: ShipDesign.Singapore@wartsila.com

DRAWN	CHEKED	APPROVED	SCALE	DRAWING NO.	REV
23.05.10	24.05.10	1:125		C4688/G-1 K	

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