

(AHTSS) Anchor Handling Tug Supply & Safety

Diesel Electric Vessel— 60 Metric Ton Bollard Pull/152.7



This Anchor Handling Tug Supply Vessel has been designed by Sea Tech Solutions International To carry out general services for offshore industry. It was fitted with POSCON Joystick, Fi-Fi 1 system and easy to do stand-by / services duties. It is equipped with waterfall double drum winch with large capacity suitable for towing and anchor handling and offshore terminal operations.

REGISTRATION:

Vessel Name:

Type: AHTSS-Fi-Fi 1 - 60 ton

Year: April 2006 / Flag: Bahrain

Class: A1, Towing Vessel, AH, Fire Fighting Vessel Class

1, Offshore Support Vessel, , 

TECHNICAL SPECIFICATIONS

DIMENSIONS:

Length overall:	64 m
Breadth moulded:	14.8 m
Depth:	6.2 m
Draft:	4.7 m
Deadweight:	1256 mt
Bollard Pull:	60 ton
Net tonnage:	486 mt
Gross tonnage:	1621 mt

CAPACITIES:

Deck area:	320 m ²
Deck cargo:	5 t/m ²
Fuel oil:	677.9 m ³
Fresh Water:	283.5 m ³
Drill water/ water ballast:	405.8 m ³
Dry bulk/ cement:	116.0 m ³
Liquid mud:	292.4 m ³
Brine:	124.9 m ³
Foam:	N/A
Dispersant:	N/A

PROPULSION / MACHINERY:

Main Generators:	4 x Yanmar 6N280L-XV-1971KW-720 RPM
Propellers:	2 x 1950 KW Aqua-master US 255-CPP
Bow thrusters:	2 x 1500 KW electrical driven
Emergency generator:	Yanmar 6HAL-H -221kW

DECK EQUIPMENT:

Main winch:	Electro-Hydraulic /2 declutchable drums in waterfall arrangement.
Rated pull:	152.7 T X 4 M/MIN
Break holding load:	200 mt
Drum capacity:	1000m X D 52 mm
Windlass:	1 combined mooring and windlass winch
Anchors:	2 (HIGH HOLD(D-14)) x 1590 KG
Anchor chains:	2 X (12 SH X 27.5Mtr X Ø 36mm)
Stern roller:	Ø3.56mx1m(length)- SWL=283T
Towing pins:	1 pair SWL 160t
Shark Jaws:	SWL 300t
Tuggers:	2 X 15T X 15 m/min
Capstans:	2 X 5T X 15 m/min

SAFETY EQUIPMENT

Life rafts:	4 x 20 men
Fast Rescue Boat:	One FRC -20 knots speed- 15 persons
Lifebuoys:	8 pcs. (7 spare)
Life Jackets:	37 pcs.(+ 15 INFL. LIFE JACKETS)
Work vests:	6 pcs.

DELIVERY RATES:

Fuel Oil:	100m ³ /hr at 5 bar
Fresh water:	100m ³ /hr at 6 bar
Drill water:	100m ³ /hr at 6 bar
Fresh Water:	100m ³ /hr at 5 bar
Liquid mud:	100m ³ /hr at 7 bar
Brine:	100m ³ /hr at 5 bar
Dry bulk / cement:	780m ³ /hr at 5.5 bar

ACCOMMODATIONS:

Accommodations for:	19 pers.
Single cabins:	5
2 Man cabins:	3
4 Man cabins:	2
Hospital:	1
Mess/Day room/Laundry/Galley/ Stores	
Fully air conditioned	

SPEED / CONSUMPTION:

Max. speed (100%):	13.0 knots (19t/day)
Service speed (85%):	11.0 knots (14t/day)
Economic speed (75%):	8.5 knots (9t/day)

ELECTRONICS:

NAVIGATION/COMMUNICATIONS

Radars:	2 SET-JRC Mod.NWZ-147
Gyrocompass:	1 (SIMRAD AR-78)
Magnetic compass:	1 (TOKIMEC BH-31-1)
GPS:	2 (SIMRAD GN 33)
AIS:	1-JRC Type. JHS-182
Echo sounder:	1 (FURUNO FE-700)
Doppler Current meter:	1 (FURUNO DS-30)
Auto Pilot:	1 (SIMRAD AP-50)
SSB:	1 (JRC JSB-196-CM)
VHF:	2 (JRC)
VHF portable:	3 (Icom -Ic-m88)
Navtex:	1 (JRC NCR-330)
GMDSS:	3 (FURUNO)
Handheld VHF:	3 (Icom Ic-m88)
Rig Move Radio:	2 PORTABLE (MOTOROLA GP328)
Aviation Radio:	1 (ICOM)

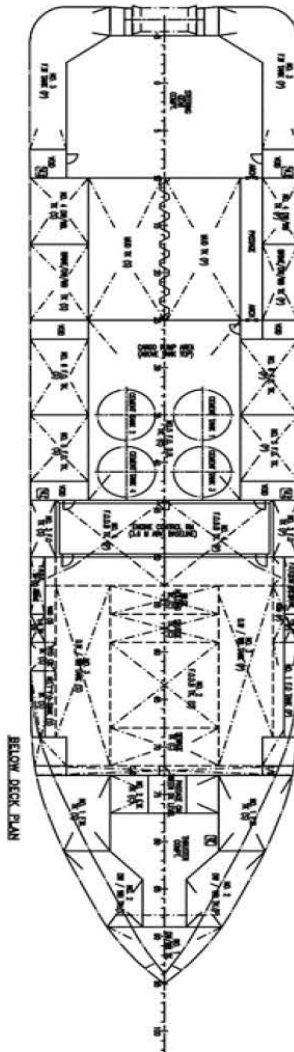
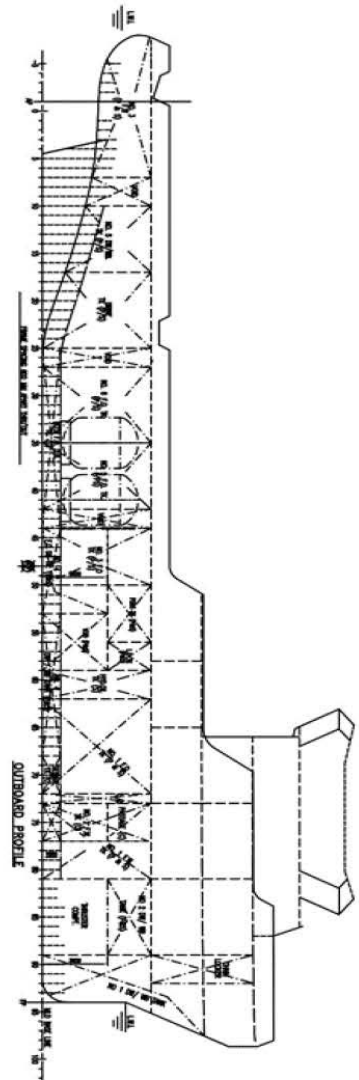
FIRE FIGHTING

Class 1 with water spray system	
Monitors control :	JOISTICK PANEL - PORTABLE
Monitors:	CAP. 1200m ³ /h, Press=12 bar, power=7.4 KN
Range:	120m
Pump capacity:	1500m ³ /h
Emergency pump:	30m ³ /h - Pressure 6.0 bar

GENERAL ARRANGEMENT



TANKS CAPACITY PLAN



NOTE: 1 VOS VALUES ARE MEASURED FROM 2 TO VOLTAGE ARE MEASURED FROM (POSITION POSITIVE) 3 LOS VALUES ARE MEASURED FROM 4 THE VALUES ARE THE TRANSISTORS OF INTERNAL FOR THE RESPECTIVE 5 LOS TO 7 VOS VALUES COMBINED 100K CAPACITORS									
CLASS. ABS. MAX. AT SUPPLY									

NOTE:

- 1 YCO VALUES ARE MEASURED FROM A/D BASE LINE.
- 2 YCO VALUES ARE MEASURED FROM SHIP'S CONTINUOUS (PORTWARD POSITION)
- 3 LCO VALUES ARE MEASURED FROM A.P.
- 4 THE VALUES ARE THE THERMISTIC MOMENT OF INERTIA FOR THE RESPECTIVE TANKS
- 5 LCO, TPO & YCO VALUES CORRESPOND TO 100% CAPACITIES

INTERNAL DIMENSIONS	
LENGTH	0.4 MLD. HULL _____ 44.00 M
DEPTH	_____ 5.70 M
BEAM A.D.	_____ 14.80 M
DEPTH A.D.	_____ 8.20 M
SCANTLING DEALT	_____ 4.75 M
DESIGN DRAWT	_____ 4.80 M
COMPLIMENT	_____ 19 MEN
MAX SPEED (40 TONN WGT)	_____ 12.5 KNOTS
BOULDER PUL.	_____ 60 TONNES
GROSS TONNAGE	_____ 1500 TONNES
NET TONNAGE	_____ 450 TONNES

CLASS: ABS ☐ A1 ☒ SUPPLY
VESSEL/TUG RTV 1 ☐ AMS

NO.	NAME	CLASS	YEAR	TEACHER

THE DISTRICT AND THE UNIVERSITY OF CALIFORNIA DO NOT ASSUME ANY LIABILITY FOR THE RESULTS OF THIS TEST. THE UNIVERSITY OF CALIFORNIA DOES NOT ASSUME ANY LIABILITY FOR THE RESULTS OF THIS TEST. THE UNIVERSITY OF CALIFORNIA DOES NOT ASSUME ANY LIABILITY FOR THE RESULTS OF THIS TEST.

DATE :	09.03.20	TIME :	1:25	A
CHARGE BY :	MM	PROJECT NO :	P-431	
CHARGE BY :	MMU	ISS NO :	PCT-105-05-82	

CAPACITY PLAN

64 M AHTS

SeoTech Solutions International (S) Pte Ltd