MEO
MICLYN EXPRESS OFFSHORE

UNIWISE SONGKHLA

Multi Offshore Terminal Tug

PRINCIPAL PARTICULARS

Year Built	2011
Place Built	Qing Dao, China
Design	Offshore Ship Designers
Flag	Thailand
Length Overall	45.64 m
Length BP	42.36 m
Breadth Moulded	13.20 m
Depth Moulded	6.00 m
Draft (max)	5.30 m
Freeboard (SLL)	0.41 m
Class	BV
Notation	I x Hull x Mach, Tug, Fire Fighting 1 - Water Spraying, Unrestricted Navigation, AUT-UMS, Inwatersurvey
GRT/ NRT	906.00 T / 271.00 T
Deadweight	768.00 T
Bollard Pull	77.20 T (Ahead), 85.80 T (Astern)

DECK PARTICULARS

Clear Deck Area	140.00 m²
Deck Carrying Load	250.00 T
Deck Strength	5.00 T/m²

PERFORMANCE

Maximum Speed	13 Knots @ 21 T/24hrs
Economic Speed	7 Knots @ 7 T/24hrs

PROPULSION SYSTEM

Main Engines	2 x Niigata 8L28HX, 2997 BHP, 2206 kW @ 750 RPM, Total 5994 BHP
Auxiliary Engines	2 x Scania CV AB D11655M, 450 kW @ 1500 RPM; 1 x Scania CV AB D11262M, 280 kW @ 1500 RPM
Emergency Generator	Nil
Air Compressor	Deno, L2-20
Bow Thruster	Kawasaki KT-43B1 CPP, 5.10 T Thrust
Propellers	2 x Solid Screw Propeller LB5
Steering Gear System	2 x Azimuth Stern Drive

TANK CAPACITIES

Fuel Oil	363.50 m³
Fresh Water	146.32 m³
Bilge	5.22 m³
Ballast Water	121.59 m³

CARGO DISCHARGE CAPACITIES

Fuel Oil Pump	38 m³/hr @ 40 m head
Fresh Water Pump	35 m³/hr @ 40 m head
Drill Water Pump	Nil
Bilge Pump	5 m³/hr

DECK EQUIPMENT

Anchors & Chain	2 x 6 Shackles, Chain Size U2 Stud Link
Tugger Winch	W-Rig Energy, 200 m, 22 mm (Dia) SWR @ 7 Layers, 10 T x 15 m/min (1st Layer), Brake Holding 15 T (Static, 1st Layer)
Capstan	2 x 5 T Hydraulic operated vertical capstan , 0-15 m/min
Anchor Windlass c/w Bow	1 x W-Rig Energy, Electro-Hydraulic, Overload Pull 5.2 T, Duty Pull 3.4 T x 0-10 m/min
Crane 1	SWL 5 T @ 12 m Radius (max SWL)
Crane 2	SWL 5 T @ 3 m Radius

ANCHOR HANDLING & TOWING EQUIPMENT

Anchor Handling/ Towing Winch	90 T x 6 m/min (1st Layer), 13 T x 28 m/min (1st Layer), 45 m/min (1st Layer)
AH Drum Capacity	Wire 200 m, Capacity 1000 + 20 m, 54 mm Dia + 20 m x 98 mm Dia, SWR 9 Layers
Tow Drum Capacity	Wire 1000 m, Capacity 1000 + 20 m, 54 mm (Dia) + 20 m x 98 mm (Dia), SWR 9 Layers
Spare Reel Drum Cap	1000 m (L) x 54 mm (Dia) SWR, 8 Layers
Line Pull @ First Layer	8 T x 25 m/min
Brake Holding	15 T, 1st Layer (Static)
Towing Pin	SWL 200 T, STTP-200-ATC
Shark Jaw	SWL 200 T, STTP-200-ATC
Stern Roller	SWL 80 T
Fairlead	SWL 160 T
Bow Winch	W-Rig Energy, Capacity 300 m + 20 m, 54 mm (Dia) + 20 m x 98 mm (Dia), SWR 9 Layers
Fwd Tow Winch	W-Rig Energy Electro-Hydraulic, 300 m x 52 mm SWR (10 Layers), Pull 30 T x 10 m/min (1st Layer Low Speed), Pull 5 T x 30 m/min (1st Layer High Speed), Brake Holding 220 T
Aft Tow Winch	W-Rig Energy Electro-Hydraulic, Pull 9 T x 6 m/min (1st Layer Low Speed), Pull 13 T x 28 m/min (1st Layer High Speed), Brake Holding 200 T

ACCOMMODATION

Berths	2 x 1, 10 x 2 Berths
Total Pax	22

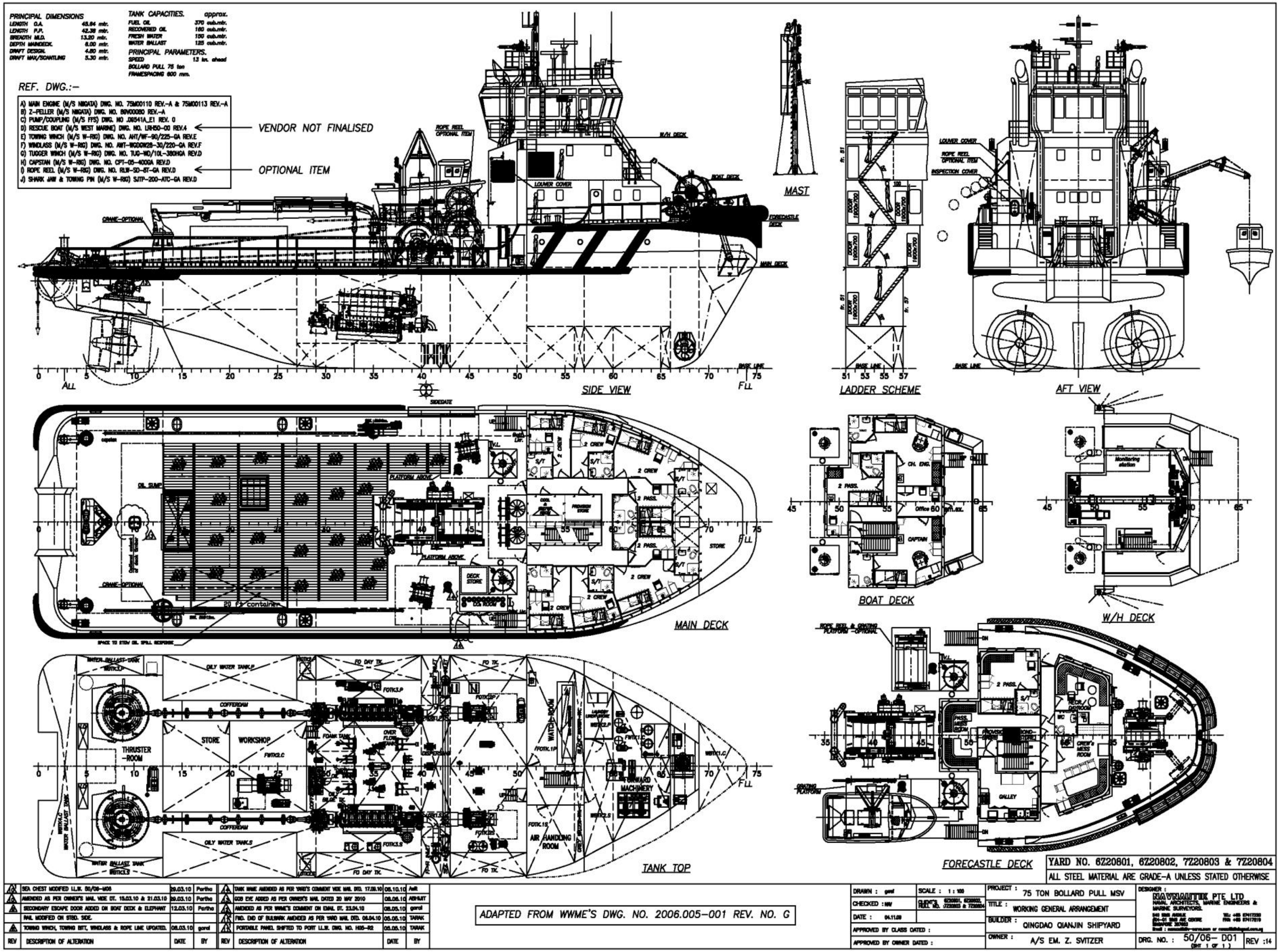
EXTERNAL FIRE-FIGHTING EQUIPMENT

Fi-Fi Notation	FFS SEP 250 x 350 Remote Controller Fitted 1200/300 SB
Fi-Fi Monitors	2 x 600 m³/hr, 120 m Throw Length
Fi-Fi Pump	2 x 1200 m³/hr

LIFE-SAVING EQUIPMENT

Life Rafts	2 x 10, 2 x 25 Men, SOLAS Compliant
Rescue Boat c/w Davit	1 x 10 Men, 241 HP of Inboard Eng, 140 L, SOLAS Compliant

Particulars are believed to be correct but not guaranteed. Owners reserve the rights to amend the specifications without notifications.
Particulars are entirely without warranty as to correctiveness and interested parties must inspect vessel’s certificates, drawings or physical inspection of vessel.



PRINCIPAL DIMENSIONS

LENGTH O.A.	45.64 mtr.
LENGTH P.P.	42.38 mtr.
BREADTH MLD.	13.20 mtr.
DEPTH MAINDECK.	6.00 mtr.
DRAFT DESIGN.	4.80 mtr.
DRAFT MAX/SCANTLING	5.30 mtr.

TANK CAPACITIES. approx.

FUEL OIL	370 cub.mtr.
RECOVERED OIL	160 cub.mtr.
FRESH WATER	150 cub.mtr.
WATER BALLAST	125 cub.mtr.

PRINCIPAL PARAMETERS.

SPEED 13 kn. ahead
BOLLARD PULL 75 ton
FRAMESPACING 600 mm.

REF. DWG.:–

A) MAIN ENGINE (M/S NIIGATA) DWG. NO. 75M00110 REV.–A & 75M00113 REV.–A
B) Z–PELLER (M/S NIIGATA) DWG. NO. 80V00080 REV.–A
C) PUMP/COUPLING (M/S FFS) DWG. NO .D8541A_E1 REV. 0
D) RESCUE BOAT (M/S WEST MARINE) DWG. NO. LRH50–00 REV.4 ← VENDOR NOT FINALISED
E) TOWING WINCH (M/S W–RIG) DWG. NO. AHT/WF–90/225–GA REV.E
F) WINDLASS (M/S W–RIG) DWG. NO. AWT–WGDGW28–30/220–GA REV.F
G) TUGGER WINCH (M/S W–RIG) DWG. NO. TUG–WD/10L–380HGA REV.D
H) CAPSTAN (M/S W–RIG) DWG. NO. CPT–05–400GA REV.D
I) ROPE REEL (M/S W–RIG) DWG. NO. RLW–SD–8T–GA REV.D ← OPTIONAL ITEM
J) SHARK JAW & TOWING PIN (M/S W–RIG) SJTP–200–ATC–GA REV.D

REV	DESCRIPTION OF ALTERATION	DATE	BY
10^{1}	SEA CHEST MODIFIED I.L.W. 50/06–M06	29.03.10	Partha
10	AMENDED AS PER OWNER'S MAIL VIDE DT. 15.03.10 & 21.03.10	29.03.10	Partha
9	SECONDARY ESCAPE DOOR ADDED ON BOAT DECK & ELEPHANT	12.03.10	Partha
	RAIL MODIFIED ON STBD. SIDE.		
8	TOWING WINCH, TOWING BITT, WINDLASS & ROPE LINE UPDATED.	08.03.10	goral

REV	DESCRIPTION OF ALTERATION	DATE	BY
14	TANK NAME AMENDED AS PER YARD'S COMMENT VIDE MAIL DTD. 17.09.10	05.10.10	AsR
13	GOB EYE ADDED AS PER OWNER'S MAIL DATED 20 MAY 2010	08.06.10	ABHIJIT
12	AMENDED AS PER WWME'S COMMENT ON EMAIL DT. 23.04.10	08.05.10	goral
11^{2}	FWD. END OF BULWARK AMENDED AS PER YARD MAIL DTD. 06.04.10	05.05.10	TARAK
11^{1}	PORTABLE PANEL SHIFTED TO PORT I.L.W. DWG. NO. H05–R2	05.05.10	TARAK

ADAPTED FROM WWME'S DWG. NO. 2006.005–001 REV. NO. G

YARD NO. 6Z20801, 6Z20802, 7Z20803 & 7Z20804

ALL STEEL MATERIAL ARE GRADE–A UNLESS STATED OTHERWISE

DRAWN : goral	SCALE : 1 : 100	PROJECT : 75 TON BOLLARD PULL MSV	DESIGNER : NAVNAUTIK PTE LTD NAVAL ARCHITECTS, MARINE ENGINEERS & MARINE SURVEYORS.
CHECKED : NW	CLIENT'S HULL NO. 6Z20801, 6Z20802, 7Z20803 & 7Z20804	TITLE : WORKING GENERAL ARRANGEMENT	
DATE : 04.11.09		BUILDER : QINGDAO QIANJIN SHIPYARD	
APPROVED BY CLASS DATED :			
APPROVED BY OWNER DATED :		OWNER : A/S EM. Z. SVITZER	DRG. NO. : 50/06– D01 (SHT 1 OF 1) REV :14