

Topaz TBN AHTSV

78 M - DP2 - Anchor Handling Tug Supply Vessel

Provisional Vessel Specifications



Vessel Specifications

Registration

Flag	Malaysia
Class	+A1, Offshore Support Vessel (Supply-HNLS, AH, TOW, FFV1, OSR-C1), SPS, Circle E, AMS, DPS-2, UWILD, GP
Year built / builder	2016 / Wuhu Xinlian Shipbuilding Co.Ltd. (WHXL) China
Port of registry	Kelang
IMO number	To be provided

Dimensions

Length overall	78.2 m
Length between perpendicular	69 m
Beam Moulded	18.5 m
Depth moulded	8 m
Design draft	6 m
Deadweight	3125t
Displacement of vessel at full load	6425t
Deck Area	600 m² approx
Registered tonnage	To be provided
Bollard pull	150t approx

Machinery

Main engines	2 x 4500 kW @ 750 rpm
Main generators	2 x 730 kW 450V/3ph/ 60 Hz 3W
Shaft generator (Main Engine)	2 x 2000 kW 450V/3ph/ 60 Hz 3W
Emergency generator	1 x 125 kW 450V/3ph/ 60 Hz 3W
Bow tunnel thruster	2 x approx 13Tf, CPP, electric driven
Stern tunnel thruster	2 x approx 11Tf, CPP, electric driven
Propulsion system	2 x CPP 3900mm dia propeller, shaftline
Steering system	2 Independent Electro Hydraulic Steering system

Deck Equipment

Anchor handling /towing winch	1 x 350 t pull; Hydraulic double drum winch
SWR	To be provided
Capstan	2 x 10 m per tonnes @ 0 to 25 m per min
Tugger Winch	2 x Hydrualic winch, drum capacity min. 200m x 25mm dia. Steel
	15t m per tonnes @ 0 to 21 m per min
Storage Rope Reel	2 x 20 m per tonnes @ 0 to 16 m per min
	3500 m length x 76mm dia. steel wire rope

Ancilliary equipment

Sewage treatment plant	1 x 60 person capacity
FW maker	1 x 10 mt per day, Reverse osmosis type

Performance

Trial Speed @ 100% MCR	15 knots approx
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Tank Capacities

Fuel oil @ 95%	1335 m³, approx
Fresh water @ 100%	381 m³ approx
Water ballast @ 100%	1586 m³ approx
Lube oil @ 95%	20 m³ approx
Sewage @ 95%	23.75 m³ approx
Hydraulic oil @ 95%	3.8 m³ approx
Oily bilge @ 95%	10.45 m³ approx
Cement tank	280 m³ approx
Dry bulk	297 m³ approx
Liquid mud	690 m³ approx

Vessel Specifications

Transfer rates

Fuel oil cargo pump	2 x 150 m ³ per hr @ 9 bar
FW cargo pump	2 x 150 m ³ per hr @ 9 bar
DW cargo pump	1 x 150 m ³ per hr @ 9 bar
LO cargo pump	1 x 8 m ³ per hr @ 2 bar
Brine pump	3 x 100 m ³ per hr @ 9 bar
Methanol / base oil pump	2 x m ³ per hr @ 9 bar
Ballast	1 x 150 m ³ per hr @ 2.5 bar

Communication and navigation equipment

GMDSS	A3 Area set 1x MF/HF Radio with transmitter 250 W (PEP) 1.6 – 27.5 MHz c/w DSC 2 x VHF Radio Telephone Transceiver 1x Inmarsat C Satellite
Navtex	1 x IMO type
DGPS	1 x IMO type 2 x DGPS units for DP system
SART	2 x IMO type, 9 Ghz
EPRIB	1 No.
Echosounder	1 No. 0-800m
Radars	1 x 96NM S Band 1 x 96NM X Band
Magnetic compass	1 No.
AIS	1 No.
SSAS	1 Set.
Speed log	1 No.
Gyro compass	3 Nos.
Anemometer	1 No.
Laser reference system	1 No.
VDR	1 Set
ECDIS	2 Nos.
LRIT	1 Set
BNWAS	1 Set

Fire Fighting equipment

Fixed fire fighting system	CO2 System Flexi Fog for Cat 1 spaces
External FiFi pump	2 x1920 m ³ per hr each (Main engine driven)
Fire monitors	2 x1200 m ³ per hr each

DP equipment

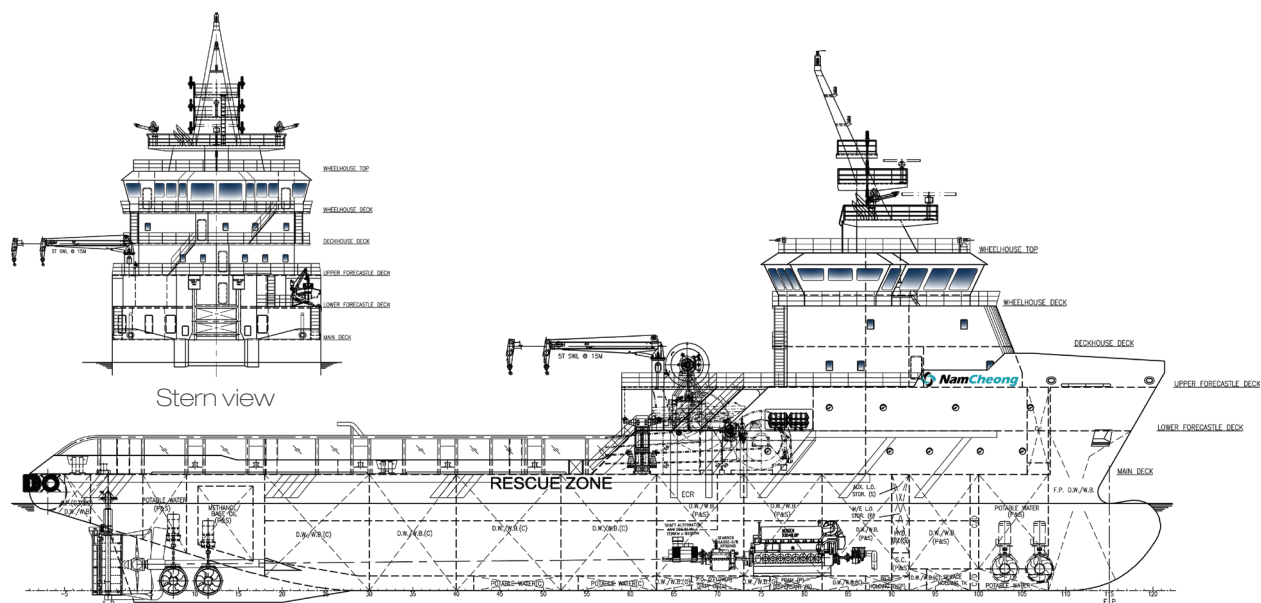
DP control cabinet	DP 2 System c/w all necessary controls and sensors
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Safety equipment

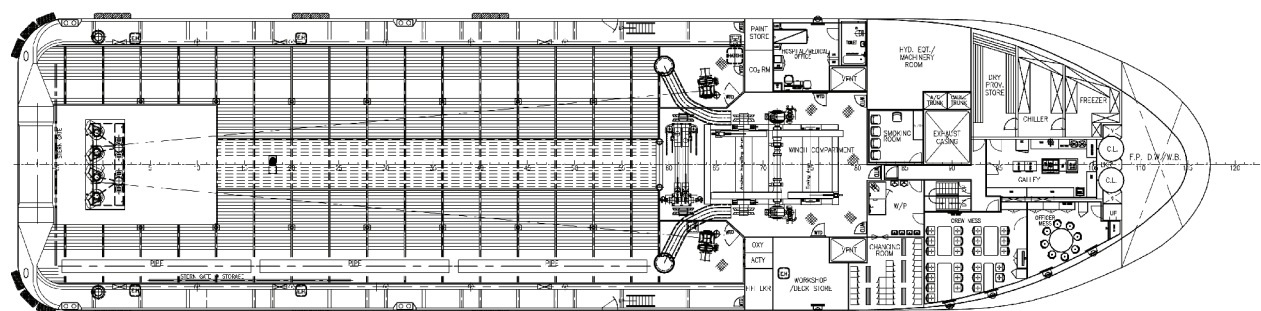
Inflatable life rafts	6 x 30 persons SOLAS approved
Rescue boat	1 x Zodiac or equivalent
Fast rescue boat	1 nos 230 hp c/w launching davit
Oxygen resuscitator	1 set

Accommodation

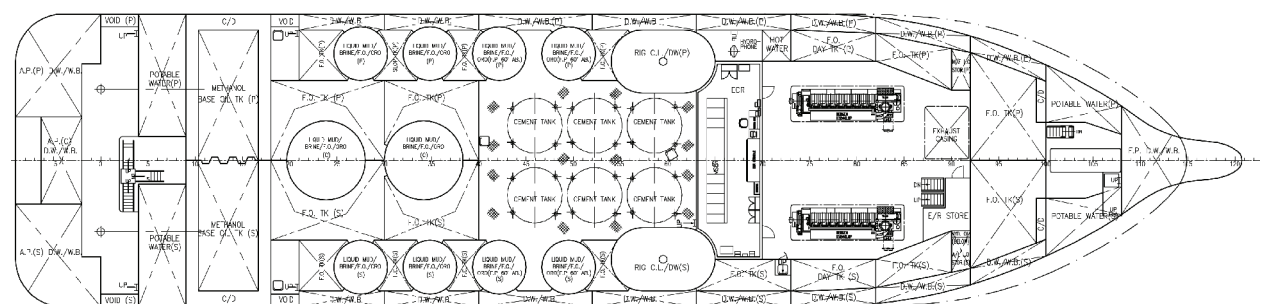
Lower forecastle	6 x 4 berth cabins
Upper forecastle	7 x 2 berth cabins 2 x 4 berth cabins
Main deck	10 x 1 berth cabins 2 x 2 berth cabins
Total	60 men



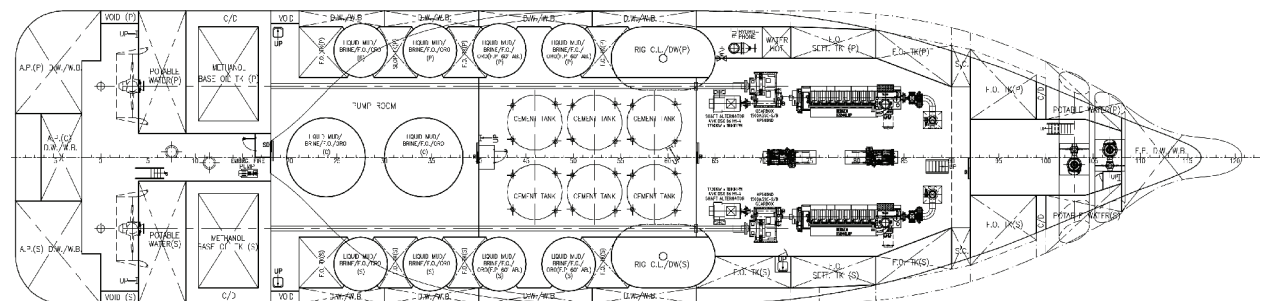
Outboard profile



Main deck

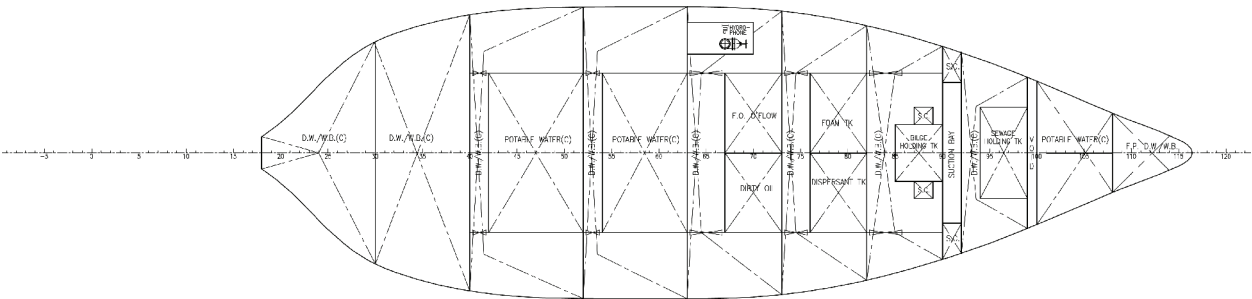


Tween deck

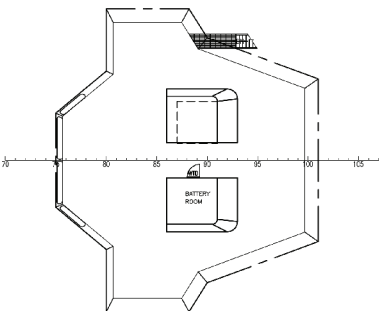


Tank top plan

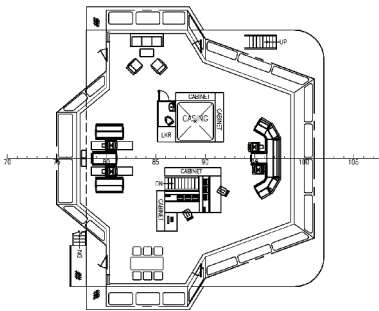
GA Specifications



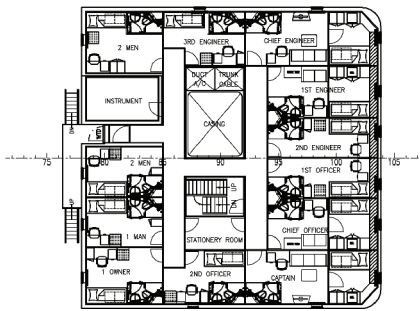
Bottom plan



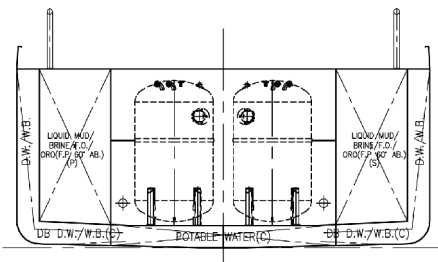
Wheelhouse top



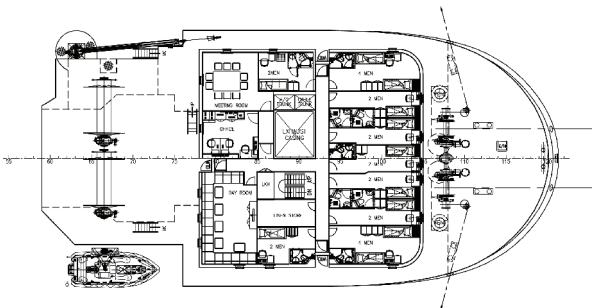
Wheelhouse deck



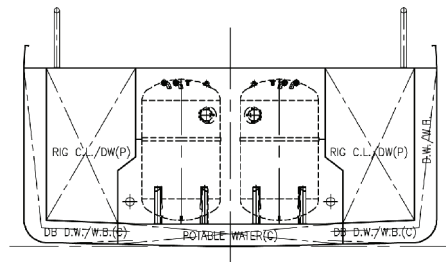
Deckhouse deck



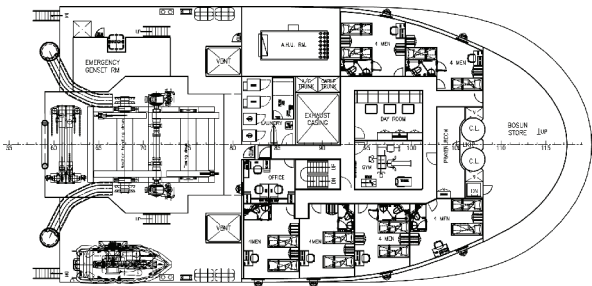
Section at cement tank



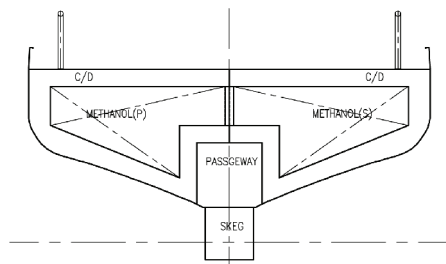
Upper forecastle deck



Section at rig CL



Lower forecastle deck



Section at methanol tank

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