

Anchor Handling/ Offshore Support & Towing Vessel (Ahts)

MV GEMIA



Classification

Delivery Date : 21st April 2008
 Class : American Bureau of Shipping (ABS) Maltese Cross + A1 + FiFi Class 1 with fixed water spray + DPS 2 + AMS Circle E, AH/ Offshore Support & Towing vessel unrestricted

Name/Registry/Flag

MV Gemia/ Port Klang / Malaysia
 IMO NUM : 9473042 Call-sign : 9MLI9
 Official Number : 334226

Principle Dimensions

Length O.A :	65.50 m	Deadweight :	1713 T
Breadth Moulded :	16.00 m	Depth Moulded :	6.50 m
Displacement :	4107.3 T	Max. Draft :	5.80 m
GRT/ NRT :	2147 / 644	Endurance :	25 days
Deck Carrying Capacity :	2,392.5 MT	Deck Strength :	5.5 MT/ m ²
Speed :	11 knots @ 85% MCR /14 knots @ 100% MCR		

Clear Deck Space:

Deck area :	435 m ²
Total deck area inclusive steel deck :	435 m ²
Total deck area without steel deck :	383.82m ²
Steel deck area :	51.18 m ²

Tank Capacity

Fuel Oil :	640 m ³	Fresh Water:	434 m ³
SWB/ DW : 3	20 m ³	Lube Oil Storage (ME):	7 m ³
Lube Oil Storage (DG) :	7 m ³	Sewage Holding Tank:	16 m ³
Hydraulic Oil Tank :	7 m ³		

Liquid Bulk Capacity:

Base oil :	2025 bbls	Mud:	2025 bbls
Brine :	2025 bbls		

Pumps

Fuel Oil :	1 x 150 m ³ / hr @ 90 m head
Fresh Water :	1 x 150 m ³ / hr @ 90 m head
Potable water :	1 x 150 m ³ / hr @ 90 m head
Drill Water :	1 x 150 m ³ / hr @ 90 m head
GS & Fire/ Detergent :	60 m ³ / hr at 60 m head
Liquid Mud/ Brine :	2 x 100 m ³ / hr at 80 m head

Main Machineryes

Main Engine

- 2 x MAK 9M25 (44472 & 44473).
- 2 x 2970 kW @ 4040 HP (440/60/3).

Thrusters

Bow Thruster (Electric Motor Driven by Shaft Generator) :
 • Rolls-Royce (T12647) 735kW / 986 HP delivering 10MT lateral thrust (electric motor driven).

FWD retractable thrusters (FPP) :
 • Rolls-Royce 725 kW/ 972 HP delivering 13 MT lateral thrust (electric motor driven).

Stern Thruster (Electric Motor Driven by Shaft Generator) :
 • Rolls-Royce (T12646) 735kW / 986 HP delivering 10MT lateral thrust (electric motor driven).

Steering Gear & Rudder :
 • 2 x Independent electro- hydraulic Wagner steering gear c/w with DPS- 2 and Joystick control system.
 • 2 x High Lift Becker Rudder operating with maximum rudder angle about 45- degree.

Propeller
 • Control Pitch Propeller

Power Plant

Main DG:

- 2 x Cummins (KTA19DM1).
- 2 x 485 kW (440 3/60).

Shaft Generator:

- 2 x Leroy Somer.
- 2 x 1000 kW @ 1360 HP (440 3/60).

Emergency DG/ Harbour Genset:

- 1 x Cummins (GCTA8.3DM).
- 99 kW (440/3/60).

Deck Machinery

Anchor Handling Cum Towing Winch

Electro- hydraulic driven twin drums in waterfall configuration, 1500 m x 64 mm dia. Wire, remote control in Wheelhouse and local control at site.
 • Pull- 250 MT (anchor handling drum @ 1st layer).
 • Brake holdings - 300 MT (1st layer – Towing).

Work wire complete with GOLD NOSE socket with terminations.

Anchor Handling Gear

1 x 300 m x 64 mm diameter work wire complete with GOLD NOSE socket terminations.
 • 3 x buoy catcher slings.
 • 1 x heavy duty J hook.
 • 1 x grapnel.

Anchor Handling Securing Device

- 2 sets of Anchor Handling Securing Device: Karm Fork SWL 300MT.
- Hydraulic stopper: SWL 300 MT suitable for wire and chain of size from 1 1/4" to 4" Ø.

Towing Gear

- 1.5 m x 61 mm diameters gob lines or as per class requirements.
- 1000 m x 64 mm diameters towing wire plus one spare brand-new tow wire

complete with GOLD NOSE socket terminations.

Towing Pins

2 x 200 MT SWL, equipped with rotating liners c/w turnable flaps & hydraulic cylinders for lifting & lowering.

Stern Roller

2.0 m dia. X 4.8 m length with SWL of 500 MT

Towing and Anchor Handling Winch

Winch (Pull Capacity):
 • Towing Winch: 250MT
 • Anchor Handling Winch: 250MT

Winch (Brake Capacity):
 • Towing Winch: 300MT
 • Anchor Handling Winch: 300MT

Drum Capacity

Electro-Hydraulic Driven Twin Drums in Waterfall.
 Configuration: 1500m X 2.5mm diameter.

Deck Crane

5 MT SWL

Capstan

2 x 10 MT @ 18 m/ min

Tugger Winch

2 x 10 MT @ 20 m/ min.

Storage Rope Reel

Dimension Ø380mm x Ø800mm x 500mm length

Bollard Pull

105.1 MT (Continuous Bollard Pull).

Deck Space Utilization Markings

- Fully utilised. Clear and suitable size of main deck space marking (with numbering).
- Deck space painted with yellow lines denoting squares of (23 ft x 21.3 ft).

Deck Timber Sheathing

- The aft cargo deck is sheathed with 75 mm thick hardwood properly secured to the main deck excluding the anchor handling area in the stern.
- The total area meets Clear Deck Space criteria.

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Stem Barrier

Gate type.

Crash Rails

Available on both sides of vessel main deck. 2.0-meter height.

Fenders

Aircraft type tyre fenders in place as per GA Plan.

Medical Equipment

Minimum specifications as follows but not limited to (comply to IMO Standards):

- 1 x Oxygen resuscitator plus one spare Oxygen cylinder (where applicable)
- 1 x Paraguard stretcher Mk. 3 c/w 4 pts lifting sling.
- 6 x sets Airsplints
- 4 x 25 persons First Aid Kit
- 10 x 100 ml Antiseptic Solution in sealed locker
- 1 x Automated External Defibrillator (AED)
- 1 x unit Portable Blood Pressure Monitor

Oil Pollution Equipment

Available complete dispersant spraying system and agitators.

- 14.7 m³ of dispersant storage tank at 100%
- 60 m³/hr at 60m total head
- Nozzles generate droplets size in range of 500 to 1200 microns, able to spray dispersant neat in the ratio of 1:10 (dispersant water).

Fire Fighting Equipment

External Fire Pump

1 x 40 m³/ hr @ 6 bar

Fire monitor

2 x 1200 m³/ hr @ 10 bar

Fire Extinguish system

Fixed CO₂ system for Engine Room and Bow Thruster Room.

- Sprinkler system: As per ABS rules and SOLAS requirement.
- Fire Hydrants & Extinguishers: As per ABS rules and SOLAS requirement.

Life Saving Appliance

As per ABS rules and SOLAS requirement

Accommodation

All accommodation spaces & engine control room are fully air-conditioned.

Marine crew (Non - DP Operation) : 15 pax
Marine crew (DP Operation) : 22 pax
Passengers : 23

Accommodation Layout:

- 1 berth Cabin x 2 = 2 men
 - 2 berth Cabin x 4 = 8 men
 - 4 berth Cabin x 7 = 28 men
- Total = 38 men

- 1 x 2 berth (sickbay) = 2 men
- 1x recreation room

Recreational Facilities

- TV minimum 42 inch with Astro
- DVD/CD player
- Coffee Maker

Working Areas

Designated Working Areas as follows comply :

- Engine Room
- Bridge
- Welding Workshop
- Paint store
- Mechanical Workshop
- Instrument Workshop
- Main deck

Communication / Navigational Equipment

Navigational and communication equipment per SOLAS / IMO (GMDSS) including International Maritime Satellite System Organisation (INMARSAT) terminal.

- GMDSS: GMDSS Sea Area A1, A2 and A3.
- Radar: 1 x Koden MDC- 7912P/ 7925P S/N 10811943 & 1 x Raytheon NSC 25 BST 8811
- Gyro Compass: 2 x Raytheon STD 22BST2213/2201.
- Navtex Receiver: 1 x Furuno NX 700.
- EPIRB: 1 x NSR MARINE (NEB-2000C).
- Auto Pilot: Raytheon Pilotstar.
- GPS Navigation: 1 x GP 150.
- Echo Sounder: 1 x Furuno FE-700.
- Walkie Talkie: 7 x Motorola GP 328.
- AIS/SSAS: 1 x Furuno FA-150.
- VHF Transceiver: 2 x Sailor 6222/Standard Horizon.

DPS- 2 System

CONVERTEAM system consist of Joystick, DP control computer, Laser Reference System, DGPS, Wind Sensor, Vertical Reference unit, printer for alarm logging.

Searchlights

2 x 2000watt, revolving searchlights capable of 360° rotations. searchlights c/w remote controls (1 fwd & 1 aft). Sufficient illumination on the fore and aft deck to enable night operations to be carried out safely.

CCTV

8 sets of CCTVs to cover 360-degree field of view camera with infra-red /night vision capability. CCTV system with computer, UPS & storage which able to retain the video for 10 weeks.

Reefer Points

- 4 no. x 16 Amp, 415/3/50 and 4 no. x 32 Amp, 230/1/50
- IP68 waterproof

Flexible Hoses

Fuel Oil

- 20m length x 4" size reinforced rubber hose.
- 2 units x 15m length x 3" size reinforced rubber hose.

Fresh Water/ Potable Water

- 40m length x 4" size reinforced rubber hose.
- 20m length x 3" size reinforced rubber hose.
- 15m length x 3" size reinforced rubber hose.

Dry Bulk Cargo

20m length x 4" size reinforced rubber hose Floatation collars available:

- 3" hose float collars x 4 pcs
- 4" hose float collars x 2 pcs
- 5" hose float collars x 2 pcs

Cargo connections

Fuel Oil

- 3" hose with Male Camlock Both End
- 3" hose with Female TODO Both End
- 4" hose with Male Camlock Both End

Fresh Water

- 3" hose with Male Camlock Both End
 - 4" hose with Male Camlock Both End
- Reducer available onboard (2"-3" and 3"-4")

Drip Sampler

Equipped with certified MARPOL drip sampler.

Rescue Craft

Inflated Rescue Boat

- Model: SAFIN 420
- Length: 4.2 (m), Breadth: 1.8 (m), Depth: 0.5 (m)
- 40 (HP) outboard engines
- Fitted with proper quick launching and recovery facilities onboard.
- Davit crane as per SOLAS requirement.

Rescue Zone

2 sets on each side of the vessel at main deck. Marked RESCUE ZONE painted in bright yellow with diagonal black stripes.

Weighted Scrambling Nets

Available one on each side of the RESCUE ZONE. 2 m wide, made of 12 mm diameter nylon with 200 mm X 200 mm hole.

Gangway

- 2 sets of portable gangways complete with handrails and safety net.
- Length 2.0 m x Width 0.6 m
- Length 6.0 m x Width 0.9 m

Pilot Boarding Platform

Via RESCUE ZONE.

Personnel Boarding Platform

Via RESCUE ZONE.

Boat landing platform

Aft Port & Stbd

Work Vest

Self-up righting capability.

- Comply with USCG/North Sea Standards.
- 10 units

M.O.B. Dummy

1 set of 40 (kg) Ruth Lee M.O.B dummy

Manning

Comply as per STCW and carrying below Minimum Safe Manning Certificates

- Minimum Safe Manning Unlimited
- Minimum Safe Manning Near Coastal
- Minimum Safe Manning Domestic

Fully complied with the STCW '95 Convention including 2010 Manila amendment and in particular respect to Chapter VIII, Section A-VIII/1 "Fitness for duty"

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