

“AHTS / DP2 - MUBARAK SPIRIT”
64.80 METER MULTI-PURPOSE OFFSHORE SUPPLY VESSEL



Main Particulars

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|-------------------------|---------------------------------|----------------|
| Length Overall | : 64.80 | m |
| Breadth Moulded | : 16.00 | m |
| Depth at Freeboard Deck | : 6.50 | m |
| Draft Designed, (SPS) | : 4.90 | m |
| Lightship Draft | : About 3.36 | m |
| Service Speed | : 13 Knots @ 100% MCR | |
| Bollard Pull | : 82 Tons (Ahead Pull), 85 max. | |
| Clear Deck Space | : 416 | m ² |
| Gross Tonnage | : 2233 | |
| Net Tonnage | : 663 | |
| Light Ship Displacement | : 2212 | mt |
| Deadweight, (OSV) | : 2048 | mt |

Registration

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|------------------|---|
| Year Built | : 2017 |
| Owner | : Mubarak Marine L.L.C. |
| Port of Registry | : United Arab Emirates |
| Call Sign | : A6E2566 |
| Official Number | : 0007814 |
| IMO No. | : 9773507 |
| Class | : ABS |
| Notations | : ✕A1 Towing Vessel, AH, FFV 1, Offshore Support Vessel, Supply,  ✕AMS, ✕DPS-2 |
| Builder | : Dubai Shipbuilding & Engineering L.L.C. |

Machinery / Propulsion / Maneuvering

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| Main Engine | : 2 x Niigata Marine Diesel Engines |
| Horsepower / RPM | : 6400 HP Total (2 x 3200HP ea.) @ 750 RPM |
| Generator No. 1 & 2 | : Total of 2230 Kw(2x1115kW ea.) |
| Generator No. 3 & 4 | : Total of 1100 Kw (2x 550kW ea.) |
| Emergency Generator/ Harbour Generator | : 416kW |
| Propulsion Units | : Niigata ZP, 360° steerable, Z– Drive w/ Dual Modulation Clutch |
| Propellers | : 360° steerable Z-drive Fixed pitch |
| Bow Thruster | : 2210 HP Total (2x1105 HP ea.) CPP, Motor Driven |
| Dynamic Positioning | : DP-2, K-POS, Kongsberg |

Deck Equipment

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| Anchor Handling/ Towing Winch | : Double Drum, Waterfall, Electro Hydraulic |
| Drum Brake Holding Drum Pull (1 st Layer) | : 200 mt (static @ 1 st layer); 150 mt pull at first speed (6m/min) 75 mt pull at second speed (6m/min) 25 mt pull at third speed (36m/min) |
| Capacity | : 1000 m x 56mm dia. Wire Rope |
| Capstan | : 5.5 mt Rated Pull Capacity |
| Tugger Winch | : 2 x 10 mt Rated Pull Capacity |
| Storage Reel | : 1 x 1000 m x 56mm dia. Rope Capacity |
| Anchor Windlass / Towing Drum | : Hydraulic, with double gypsies and One Towing Drum and double warping heads |
| -Windlass | : Ø42mm Chain Size, 11T Gypsy Pull / |
| -Towing Drum Capacity | : 220 m x 64 mm PP rope |
| -Towing Drum Brake Holding | : 90 mt (static-1 st layer) |
| Deck Crane | : HEILA Crane HR 180, 10T @ 15m Hook travel at 90 m |
| Stern Roller | : 2200 mm dia. x 5 m long |
| Oil Dispersant Boom | : 2 x 8.0 m |

Note: All details given in good faith without guarantee subject to change without prior notice.
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Capacities

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|-------------------|---|
| Fuel Oil | : 575 m ³ approx. |
| Fresh Water | : 428 m ³ approx. |
| Fresh Water Maker | : 1 unit x approx. 12m ³ /day |
| Dry Provision | : 31.5 m ³ approx. |
| Freezer / Chiller | : 23.4 m ³ approx. |
| Liquid Mud/Brine | : 466 m ³ approx. (325 m ³ + 141 m ³) |
| Bulk Cement | : 180 m ³ approx. (4x 45 m ³) |
| DrillWater/Water | : 1229.5 m ³ |
| Ballast | |
| Sewage Treatment | : 1 Unit Vacuum Type for Black & Grey Water |

Accommodation Facilities

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| Single Cabin | : 4 Men |
| 2-Men Cabin | : 6 Men |
| 4-Men Cabin | : 32 Men |

Total Accommodation : 42 Men

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| Galley | : Raised Deck |
| Mess Room | : Raised Deck, (24 persons in one seating) |
| Recreation Room | : Raised Deck |
| Sick bay | : Raised Deck |

Safety / Fire Fighting

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|----------------------------|---|
| External Fire Fighting | : FIFI-1 Class |
| Fire station /Extinguisher | : As per SOLAS |
| Life Rafts / Jackets | : As per SOLAS |
| Rescue Boat | : 1 x 170 HP Hamilton Water Jet Suitable for 15 Persons |
| Davit | : 1 x Hydraulic Pivoting Davit System, SWL 36kN |

Discharge Capacities:**CEMENT (Bulk Handling System)**

| | |
|------------------------|---|
| Air Compressor | : 2 Units 18.7 m ³ /min @ 5.6 Bar |
| Compressor Capacity | : 18.7 m ³ /min. @ 5.6 Bar with 90KW / motor. |
| Refrigerated Air Dryer | : 2 Units 18 m ³ /min @ 6 Bar with water separator, sea water cooling pump c/w starter and moisture separator c/w auto drain trap. |

MUD / BRINE SYSTEM

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| Liquid Mud Cargo Pump | : 2 Nos.– two speed electric driven pump |
| Capacity | : 80,0 m ³ /h / 37,0 m ³ /h |
| Liquid Mud / Brine Pump | : 2 Nos. (1 working & 1 stand by) with cross over connection |
| Capacity | : 80,0 m ³ /h / 37,0 m ³ /h |
| Liquid Mud Agitator | : 1 No. Each Tank – Hydraulic Driven of type PG-Submix 80 w/ Viscoprop 2500mm |
| Re-circulation System | : Drop / Re-circulation System Vessel fitted with “deluge lines” located below the Main deck. |

Navigation / Communication Equipment

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| Magnetic Compass | : Lilley & Gillie – MK2000 |
| Gyro-compass | : Sperry MK 1, Mod 10 |
| Pelorus | : Lilley & Gillie MK056 |
| Track control system | : NAVITRON NT999G |
| Radar | : JRC JMA-5300Mk2 |
| Gyro | : Kongsberg Navigat X MK I |
| Echo Sounder | : JRC JFE-380 |
| VHF | : Cobham – SAILOR 6215 |
| VHF Hand Held GMDSS Radio | : Entel HT649 |
| AIS | : JRC JHS 183 |
| SSAS / LRIT | : Cobham – Sailor 6120 |
| VHF | : Cobham – Sailor 6222 |
| MF / HF | : Cobham – Sailor |
| NAVTEX receiver | : JMC NT 1800 |
| Simplified voyage data recorder (S-VDR) | : Danelec DM200 |
| Receiver (GNSS) | : JRC JLR 7800 |
| 9GHz Radar | : JRC JMA 5312 |
| 9GHz Radar Transponder | : ACR - Pathfinder3 Sart |
| Two-way VHF radiotelephone | : Entel HT649 |
| VHFI DSC | : Cobham – SAILOR 6222 |
| EPIRB | : McMurdo Smartfind E5 |
| Electronic plotting aid (EPA) | : JRC |
| Speed Log | : JRC JLN 652 |
| Rudder angle indicator | : Niigata Power Systems ZP-41 |

OTHER PUMPS

| | |
|-------------------------------------|--------------------------------------|
| Fuel Oil Cargo Pump | : 100 m ³ /hr @ 70 m Head |
| Fresh Water Cargo Pump | : 100 m ³ /hr @ 70 m Head |
| Drill Water Pump | : 100 m ³ /hr @ 70 m Head |
| Fuel Oil Transfer Pump | : 20 m ³ /hr @ 30 m Head |
| Bilge / Ballast Pump | : 60 m ³ /hr @ 60 m Head |
| Bilge / Fire Main Pump | : 60 m ³ /hr @ 60 m Head |
| Fire / GS Pump | : 60 m ³ /hr @ 60 m Head |
| Emergency Fire Pump | : 40 m ³ /hr @ 60 m Head |
| Lube Oil Transfer Pump | : 8 m ³ /hr @ 25 m Head |
| Sludge / Dirty Oil Pump | : 8 m ³ /hr @ 35 m Head |
| ME ST-BY FW Cooling Pump | : 80 m ³ /hr @ 30 m Head |
| ME ST-BY SW Cooling Pump | : 110 m ³ /hr @ 20 m Head |
| Bow Thruster SW Cooling | : 14 m ³ /hr @ 50 m Head |
| FW Pressure Set - 2 Pumps + 1 Tanks | : 5 m ³ /hr @ 40 m Head |

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