



## Anchor Handling Tug Supply Vessel 70 M 10888 BHP 155 MT Bollard Pull DP2



### PRINCIPAL PARTICULARS

Length Overall	: 70.0 m
Length W.L	: 68.40 m
Breath Molded	: 16.00 m
Depth Molded	: 6.5 m
Draft Molded	: 5.80 m
Class	: Bureau Veritas
Flag/Port Registry	: Malaysian/Port Klang
Delivery	: 2010
Official No.	: 334180
IMO No.	: 9577800
Call Sign	: 9MLG9
Hull No.	: 20076
GRT/NRT	: 2348 / 704
Place of Built	: Mubibbah Marine Eng.

### PERFORMANCE

Performance Speed	: Min 13 knots
Economical Speed	: Min 11 knots
Endurance	: Min 25 days

### CARGO CAPACITIES

Deck Strength	: 5.5mt/m <sup>2</sup>
Cargo Deck Area	: 500 m <sup>2</sup>
Fuel Oil Tank	: 838.40 m <sup>3</sup>
Drill Water	: 625.90 m <sup>3</sup>
Fresh Water	: 419.80 m <sup>3</sup>
Foam Tank	: 14.80 m <sup>3</sup>
Liquid Mud / Brine Tank	: 324.30 m <sup>3</sup>
Base Oil Tank	: 216 m <sup>3</sup>
Cement Tank	: 2 x 2375 CUF and 2 x 1750 CUF

### DISCHARGE RATES

Fuel Oil Cargo Pump	: 2 x 100 m <sup>3</sup> /Hr @ 90m head
Fresh Water Cargo Pump	: 1 x 100 m <sup>3</sup> /Hr @ 90m head
Drill Water Cargo Pump	: 1 x 100 m <sup>3</sup> /Hr @ 90m head
Liquid Mud/Brine Pump	: 2 x 100 m <sup>3</sup> /Hr @ 90m head
Brine Cargo Pump	: 1 x 100 m <sup>3</sup> /Hr @ 90m head
Base Oil Cargo Pump	: 1 x 100 m <sup>3</sup> /Hr @ 90m head

### PROPULSION SYSTEM

Main Engines	: 2 x 5444 BHP (10,888 BHP) Caterpillar C28012
Bow Thruster	: 1 x 10T Motor Driven CPP Tunnel Thrusters 1 x 12T Retractable Azimuth Thrusters, Engine Driven
Stern Thrusters	: 1 x 10T Motor Driven CPP Tunnel Thrusters
Propellers	: 2 x CPP
Shaft Alternator	: 2 x 1250 kW, 415/3 phase/50Hz Stamford
Auxiliary Generator	: 2 x 450 kW, 415/3 phase/50Hz CAT C18
Emergency Generator	: 1 x 82 kW, 415/3 phase/50Hz CAT 4.4

### FIRE FIGHTING EQUIPMENT (FIFI Class 1)

External	
Fire Pump	: 2 x 1500 m <sup>3</sup> /hr at 1.4 Mpa each
Fire Monitor	: 2 monitors (water, foam, manual and remote control)
Oil Dispersant Boom	: 1 set
Internal	
CO2 system in engine room	: Fitted

### TOWING / ANCHOR HANDLING EQUIPMENT

Bollard Pull	: Average 155 MT, Max. 164 MT
Towing Winch	: Twin drums waterfall configuration, Brake holding: 450 Ton @ 1st layer, Baatvaag Tom Drum Wire
Capacity	: 2000 m x 76 mm diameter
Work Drum Capacity	: 2000 m x 76 mm diameter
Stern Roller	: Approx. 2.0 dia x 5m length, SWL 450 ton
Karm Fork	: 2 sets SWL 300 tons
Towing Pins	: 1 set SWL 300 tons
Storage Reel	: 1 x 16.8 ton @ 0.88.6 m/min
Local/Remote control from wheelhouse	

### DYNAMIC POSITIONING 2 SYSTEM

Maker	: Kongsberg
Main Switchboard	: Designed as per the power available for position keeping is sufficient to maintain the vessel in position even after worst case failure

Control Mode	: Manual Control - Single ever for each thruster, Independent Joystick - Combined Joystick, DP Control Computers - 2 units
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Sensors	: 3 gyro compass
UPS	: 2 sets

### DECK EQUIPMENT

Capstan	: 2 x 10T @ 25 m/min
Tugger Winch	: 2 x 16.90 ton @ 27.50 m/min
Anchor Windlass	: 11.9T @ 13.80 m/min @ 40 bar

### ACCOMMODATIONS

Crew + Passengers	: 2 x 1 berth cabins, 4 x 2 berth cabins 8 x 4 berth cabins, Total 42 berth
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All cabin fully air-conditioned

Walk-in freezer space	: 10.0 m <sup>3</sup>
Walk-in Chiller	: 32.0 m <sup>3</sup>

### RADIO & NAVIGATION EQUIPMENTS

SSB (additional)	: 1 x Furuno FS-1570, 150W MF/HF
VHF	: 2 x JRC-7705
Radar	: 2 x JRC, JMA-5312-6, X-Band with ATA, 96mm range
Echo Sounder	: 1 x JRC, JFE-680
Gyro Compass	: 3 x C. Plath Navigat
GMDSS	: For Sea-Area A1+A2+A3 operation JRC-296, 250W MF/HF
Magnetic Compass	: 1 x Lillye & Gillie MK2000
Speed Log	: 1 x JRC, JLN-205
Auto Pilot	: 1 x Navitron PID, NT88G
Navtex Receiver	: JRC, NCR-333
GPS Navigator	: 2 x JRC, NWZ-4570
Joystick	
EPIRB	: 1 x GME 406/121.5MHz
AIS	: 1 x JRC, JHS-182
Fleet Broadband	: 1 set Thrane & Thrane FBB 250
Inmarsat C satellite communication for telex & EGC	

### LIFE SAVING & H.S.E. EQUIPMENTS

Search Lights	: 2 x 2000W halogen
Floodlights	: Fitted
Life Jackets	: 51
Liferafts	: 4 x 25 men & 2 x 15 men
Lifebuoys	: 10 sets
Firemen Suits	: 6
Scrambling Net	: 2 pcs
Rescue Boat	: 1 x 6 men, 25HP Outboard Motor
Slewing Davit	: As per SOLAS requirement

### OTHERS

Reefer points	: 8 x 15 amp, 415/3/50Hz 4 in sockets
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# JM BAYU GENERAL ARRANGEMENT PLAN

