



**Brief Specification For Proposed New 78.0M 12,000 BHP Anchor Handling/Towing Offshore Support Vessel**

**PRINCIPAL PARTICULARS**

(Approximate for guidance only)

|                  |   |
|------------------|---|
| Length overall : | 78.00 m   |
| Length BP:       | 69.30 m   |
| Breadth:         | 18.00 m   |
| Depth moulded:   | 8.00 m  |
| Draft designed:  | 5.20 m  |
| Summer draft:    | 6.5m  |
| Draft scantling: | 6.80 m  |
| Deadweight       | 3,000 t (estimated)   |
| Built:           | Wuhu Xinlian Shipbuilding Co. Ltd, China  |
| GRT/NRT:         | 3,705/1,112 tonnes (estimated)  |
| Class            | ABS   |
| Notation         | A 1 (E) Offshore Support (AH, Tow, Supply-HNLS)<br>FFV 1, OSR-C1, + AMS, +ACCU, +DPS2<br>SPS, UWILD |
| Flag             | T.B.A   |
| Call Sign        | T.B.A   |

**PERFORMANCE**

|                   |  |
|-------------------|--|
| Maximum Speed:    | 14.5 knots at trial condition at<br>100% MCR, at 5.2m draft(estimated) |
| Economical Speed: | 11.6 knots (estimated)   |
| Type of Fuel:     | MDO (Marine Diesel Oil)  |
| Bollard Pull:     | 168 mt (estimated)   |

**CARGO CAPACITIES**

|                     |                              |
|---------------------|------------------------------|
| Deck Cargo          | 1,000 t, VCG 0.8m above deck |
| Deck Strength       | 7.5t/m <sup>2</sup>          |
| Clear Deck Area     | abt520m <sup>2</sup>         |
| Fuel Oil            | 1,024m <sup>3</sup>          |
| Fresh Water         | 610m <sup>3</sup>            |
| Ballast/Drill Water | 1,568m <sup>3</sup>          |
| Liquid Mud/Brine    | 805m <sup>3</sup>            |
| Bulk Cement         | 250m <sup>3</sup>            |
| Foam Tank/Detergent | 22.5m <sup>3</sup>           |
| Dispersant tank:    | 22.2m <sup>3</sup>           |
| Rig Chain Locker    | 264m <sup>3</sup>            |

**CARGO PUMPS**

|             |   |
|-------------|---|
| Fuel Oil    | 2 x 200m <sup>3</sup> /hr, Desmi, LN164/170-SO-GL |
| Fresh Water | 1 x 150m <sup>3</sup> /hr, Desmi, NSL125-415/A02  |
| Drill Water | 1 x 150m <sup>3</sup> /hr, Desmi, NSL100-415/D02  |
| Liquid Mud  | 2 x 75m <sup>3</sup> /hr, Allweiler               |
| Bulk Cement | 2 x 75m <sup>3</sup> /hr, Unislip                 |

**PROPULSION SYSTEM**

|                       |   |
|-----------------------|---|
| Main Engines:         | 2 x 4500kW x 600 r.p.m, MAK 9M32C                               |
| Main Generator :      | 3 x 550 kW, 440V, 60 Hz, Caterpillar                            |
| Emergency Generator : | 1 x 99 kW, 440V, 60 Hz, Caterpillar                             |
| Shaft Generator :     | 2 x 1920 kW, 440V, 60 Hz<br>driven by P.T.O. of ME, Leroy Somer |
| Bow Thruster :        | 2 X 12 tons bow thrusters,<br>Berg, CPP type                    |
| Stern Thruster:       | 2 X 10 tons stern thruster<br>Berg, CPP Type                    |
| Steering Gear:        | 2 x 13 t - m at 45 °-0-45°                                      |
| Propulsion:           | 2 x CPP X 4.1 m Dia in Kort nozzle, Berg                        |
| Rudders:              | 2 x High lift flap rudder                                       |

**DECK EQUIPMENT**

|                      |   |
|----------------------|---|
| Anchor Windlass:     | 1 x 8.5 t @ 10m/min, MacGregor                              |
| Bow Anchors:         | 2 x 2,460 kg, AC-14, HHP                                    |
| Capstan:             | 2 x 10 mt x 0-15 m/min, MacGregor                           |
| Tugger Winch:        | 2 x 15t @ 15 m/min, MacGregor                               |
| Towing/AH Winch:     | 1 x HATLAPA Low Pressure double drums<br>3000/4500, Hatlapa |
| Upper Drum (Towing): | 2000m X 76mm dia wire capacity                              |
| Lower Drum (AH):     | 2000m X 76mm dia wire capacity                              |
| Line Pull:           | 300mt   |
| Brake Capacity:      | 450mt   |
| Gypsies:             | 76mm/84mm/90mm  |
| Rope Reel:           | 2 x 10t x20 m/mm, Macgregor,                                |

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|              |   |
|--------------|---|
| Stem Roller: | 1 x 6.6m (L) X 3.0m. Dia x SWL-450 mt   |
| Tow Pins:    | 2 x 200mt bollard pull, Triplex         |
| Shark Jaws:  | 2 x swk 300 mt, Triplex                 |
| Deck Crane:  | 1 x SWL 5 T x 10m, telescopic boom type |

**Accommodation**

|           |   |
|-----------|---|
| Crew:     | 6 x 1 berth cabin: 6 men<br>12 x 2 berth cabin: 24 men<br>5 x 4 berth cabin: <u>20 men</u>    |
| Total:    | 50 men  |
| Hospital: | 1 x 1 berth: 1 men<br>All cabin fully air-conditioned and<br>complete with attached washroom. |

**RADIO AND NAVIGATION EQUIPMENT**

|                      |   |
|----------------------|---|
| GMDSS:               | 1 x Furuno FS-2575 (Area A1+A2+A3)                            |
| Immarsat C:          | 2 x Furuno Felcom 18  |
| Navtex Receiver:     | 1 x Furuno NX 700A  |
| SART:                | 2 x McMurdo S4  |
| EPIRB:               | 2 x McMurdo E5  |
| Portable VHF Radios: | 3 X McMurdo R5  |
| Radar:               | 1 x Furuno FAR-2117 (X-Band)<br>1 x Furuno FAR-2137S (S-Band) |
| Echo Sounder:        | 1 x Furuno FE-800   |
| DGPS:                | 1 x Furuno GP-170   |
| Gyrocompass:         | 3 x Anschutz Standard 22                                      |
| Autopilot:           | 1 x Anschutz Pilotstar-D                                      |
| Magnetic Compass:    | 1 x Lilley&Gillie MK -2000S                                   |
| Weather Fax:         | 1 x Furuno FAX - 408  |
| Speed Log:           | 1 x Furuno DS - 80  |
| AIS:                 | 1 x Furuno, FA 150  |
| ECDIS:               | 1 x Furuno, FMD-3200  |
| BNWAS:               | 1 x Furuno, BR-500  |
| VDR:                 | 1 x Furuno, VR-7000   |
| Fleet BroadBand:     | 1 x Furuno-Felcom 250   |

|                              |   |
|------------------------------|---|
| Dynamic Positioning System-2 | Kongsberg Maritime K-POS.DP-21<br>a) 3 x gyro compass<br>b) 3 x Wind Sensors<br>c) 3 x Motion Reference unit<br>d) 2 x DGPS<br>e) 1 x Cyscan<br>f) 1 x HiPAP Gate Valve<br>g) 1 x Independent joystic, CJOY |
|------------------------------|---|

**FIRE FIGHTING EQUIPMENT & ANTI-POLLUTION EQUIPMENT**

|                       |  |
|-----------------------|--|
| <b>External</b>       |  |
| Fifi System           | Class 1 with water curtain all around<br>superstructure  |
| Fire Pump             | 2 x 1685 m <sup>3</sup> /hr at 140m, OGF 250X350 driven<br>by front PTO of ME  |
| Monitors              | (water/foam)- 1x1200/300 m <sup>3</sup> /hr, Jason,<br>MM602 HJF-V-C-02<br>(water)- 1 x 1200 m <sup>3</sup> /, Jason, M602 HJF-F-C-02<br>Throw length/height: 120m/70m |
| Oil Dispensant System | 2 x Spray nozzle (P&S)   |

**Internal**

|  |   |
|--|---|
| Emergency Fire pump  | 1 x 45 m <sup>3</sup> /hr at 6.55 barz Desmi. |
| CO2 Fixed Fire extinguishing system in engine room           |   |
| Fire detection & alarm system in common area and engine room |   |

**MISCELLANEOUS**

|                        |   |
|------------------------|---|
| Search Lights          | 3 x 2000w, Halogen  |
| Floodlights            | 6 x 1000w, Halogen  |
| Liferafts              | 6 x 25 men SOLAS approved type                            |
| Rescue Boat & Davit    | 1 x 6 men powered by 25 hp outboard engine                |
| Oil Water Separator    | 1 x Boss 5t/107 , 1.14m <sup>3</sup> /hr with 15ppm alarm |
| Water Maker            | 2 x 10 m <sup>3</sup> /day, Hansun, HSRO-10B              |
| Sewage Treatment Plant | 1 x 65 men/day, Taiko SBH - 65                            |

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END

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