

## 120 T B.P. ANCHOR HANDLING TUG CUM SHIPPING VESSEL

### GENERAL

|                  |   |
|------------------|---|
| Year built       |   |
| Builder          | Bharati Defence & Infrastructure Ltd. India |
| Designer         | Conun Wu & Associates Pte Ltd.              |
| Port of Registry |   |
| Call sign        |   |
| Class            | Bureau Veritas                              |
| Owners           |   |
| Official Number  |   |
| IMO Number       |   |
| Flag             |   |

|                     |                                      |
|---------------------|--------------------------------------|
| Deck strength       | 5.0 T/m <sup>2</sup> uniform loading |
| Fuel oil            | 1400 m <sup>3</sup>                  |
| Drill/ballast water | 434 m <sup>3</sup>                   |
| Potable water       | 265 m <sup>3</sup>                   |
| Dry bulk:           | 250 m <sup>3</sup> in 4 tanks        |
| Liquid mud          | 408 m <sup>3</sup> in 2 tanks        |
| Brine tank          | 203 m <sup>3</sup>                   |
| Base oil            | Optional                             |
| Freezer room        | 8 m <sup>2</sup>                     |
| Chiller room        | 4 m <sup>2</sup>                     |

### DIMENSIONS

|                       |                |
|-----------------------|----------------|
| Length Overall        | 68.60 m        |
| Breadth Moulded       | 15.40 m        |
| Depth Moulded         | 7.00 m         |
| Draft, normal oper    | 6.00 m         |
| Draft, summer         |                |
| GT.                   | 2343 approx.   |
| NT                    | 703 approx.    |
| DWT at assigned draft | 2356.64 T      |
| Speed                 | 15 knots       |
| Classification        | Bureau Veritas |

### PUMPING

|                    |   |
|--------------------|---|
| Fuel oil           | 150 m <sup>3</sup> /hr @ 7 bar                  |
| Drill water        | 150 m <sup>3</sup> /hr @ 7 bar                  |
| Fresh water supply | 150 m <sup>3</sup> /hr @ 7 bar                  |
| Bulk               |   |
| Liquid mud         | 75 m <sup>3</sup> /hr @ 18 bar, screw type pump |
| Brine pump         | 75 m <sup>3</sup> /hr @ 18 bar, screw type pump |

### MACHINERY

|                  |                                     |
|------------------|-------------------------------------|
| Main Engine      | 8M32C, 4000 kW @ 600 Rpm            |
| Propellers       | CPP (4 blades)                      |
| Rudders          | 2 Nos. high lift rudders            |
| Bow thruster     | 600 kW @ 1180 Rpm, 3.727:1 (2 Nos.) |
| Stern Thruster   | 600 kW @ 1180 Rpm, 3.727:1 (1 No.)  |
| Generators       | 350 kW @ 1800 Rpm (2 Nos.)          |
| Joystick Control | Jastram (Steering Gear Joystick)    |

### External Fire fighting (FI - FI 1)

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Two main engine driven pump each of | 1600 m <sup>3</sup> /hr @ 150 m |
| Monitors (2 Nos.)                   | FFS1200 / 300 LB                |
| Foam tank                           | 21.0 m <sup>3</sup>             |
| Dispersant tank/nozzles             | 16.2 m <sup>3</sup>             |

### Anchor & Mooring

|          |  |
|----------|--|
| Anchors  | 2 Nos. high holding power anchor of 1575 kg. |
| Capstans | 10 tonnes @ 14 meters/min                    |

### Accommodation

|                 |    |
|-----------------|----|
| Officers & crew | 30 |
| Character       | 0  |
| Total           | 30 |

### Navigation & Communication

|                            |        |
|----------------------------|--------|
| Radars                     | 2 Sets |
| Echo Sounder               | 1 No.  |
| Auto Pilot                 | 1 No.  |
| Gyro Compass               | 2 Nos. |
| Doppler speed log          | 1 No.  |
| Navtex                     | 1 No.  |
| DGPS                       | 1 No.  |
| GPS                        | 1 No.  |
| GMDSS (A1+A2+A3) Equipment | 1 set  |
| Fog signaling system       | 1 No.  |
| Anemometer (digital)       | 2 Nos. |
| P.A. system                | 1 set  |
| AIS                        | 1 No.  |
| Integrated joystick        | 1 set  |
| Inmarsat Fleet Broadband   | 1 No   |

### ANCHOR HANDLING & TOWING

|                            |  |
|----------------------------|--|
| Bollard Pull               |  |
| AHT Winch                  | 120 T  |
| Line pull                  |  |
| Brake capacity             | 320 T (1 <sup>st</sup> layer)                            |
| Drum capacity              | 2848 m x 64 mm dia. SWR Steel wire rope According to NWD |
| Rig chain wildcats Control |  |
| Storage wire reels         | Pull 12 T @ 12 m/min on I layer                          |
| Tugger winches             | 11 T @ 18.9 m/min  |
| Stern roller               | SWL 300 mt   |
| Shark Jaw tow pin          | SWL 300 mt   |
| Rig chain locker           |  |
| Aft deck strengthened      | 420 m <sup>2</sup>                                       |

### Capacities

|            |       |                  |                            |
|------------|-------|------------------|----------------------------|
| Deck cargo | 800 T | Clear deck space | Approx. 420 m <sup>2</sup> |
|------------|-------|------------------|----------------------------|