



## MPSV IEVOLI COBALT

### MPSV H69 - MMC 879L CD

THE VESSEL IS EQUIPPED AND FITTED FOR THE FOLLOWING CONTINGENCY SERVICES:

- FIRE FIGHTING
- SUPPLY DUTIES
- ROV AND DIVING SHIP
- SUBSEA ACTIVITIES

### MAIN DESCRIPTION

|                  |                                                                                                                                                                                                             |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Year Built       | : Delivery October 2016                                                                                                                                                                                     |
| Vessel built     | : Selah Shipyard – Tuzla (Turkey)                                                                                                                                                                           |
| Type             | : Standby Platform Supply Vessel / FiFi 1 / DP2                                                                                                                                                             |
| Classification   | : BV - I ✱ Hull ✱ Mach1 - Supply Vessel, Oil Recovery Ship Second-Line; Fire Fighting Ship 1 waterspraying; LHNS / SP (60); Unrestricted Navigation; ✱ AUT-UMS, ✱ Dynapos AM/AT-R; Cleanship, Inwatersurvey |
| Additional Notes | : ✱ SPS Code 2008 – Resolution MSC.266(84)                                                                                                                                                                  |
| Port of registry | : Naples n. 569                                                                                                                                                                                             |
| Flag             | : Italian                                                                                                                                                                                                   |
| Call Sign        | : I B O K                                                                                                                                                                                                   |
| IMO Nr.          | : 9736872                                                                                                                                                                                                   |
| MMSI Nr.         | : 247363700                                                                                                                                                                                                 |
| Regulations      | : BV, COLREG, Load Line, SOLAS Certificates, Tonnage Certificate, Marpol Annex I,II,IV,V, VI, IMO A493-494, IMO A749 (18), IMO 673 (16), IMO A325, ISPS Code, MSC 645, MSC 664, MSC 235 (82)                |

### MAIN PARTICULARS

|                |               |
|----------------|---------------|
| Design         | : MMC 879L CD |
| LOA            | : 83,83 m     |
| Length PP      | : 81,50 m     |
| Breath Moulded | : 16,80 m     |
| Depth Moulded  | : 7,40 m      |
| Summer Draft   | : 5,00 m      |
| Gross tonnage  | : 4495 Tonn   |
| Net tonnage    | : 1589 Tonn   |

### PERFORMANCE

|                  |                                  |
|------------------|----------------------------------|
| Max Speed        | : 14,00 Knts - 22/24 Tonn/day    |
| Cruise Speed     | : 10-11,50 Knts - 12/14 Tonn/day |
| Eco Speed        | : 09-10,00 Knts - 08/10 Tonn/day |
| DP h24           | : 06/07 Tonn/day                 |
| Port consumption | : 0,75 Tonn/day                  |
| Type of Fuel     | : M.G.O.                         |

### CAPACITIES

|                       |                       |
|-----------------------|-----------------------|
| Dead weight           | : 4000 t (approx)     |
| Deck cargo            | : 1600 Tonn           |
| Cargo deck dimensions | : 51,60 x 14,00 m     |
| Deck area             | : 500 m <sup>2</sup>  |
| ROV Hangar            | : 60 m <sup>2</sup>   |
| Deck strength         | : 5 t/ m <sup>2</sup> |
| Freezer Room          | : Available           |

### DECK EQUIPMENTS

|                    |                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Capstans           | : 2 x 10 Tonn                                                                                                                                  |
| Tugger Winches     | : 2 x 10 Tonn                                                                                                                                  |
| Offshore Subsea    | : TTS - GPCKO 2000-50-20 AHC                                                                                                                   |
| Knuckle Boom Crane | : <u>Main Hook</u><br>AHC - SWL 25 Tonn @ 19m<br>1000 mtrs lifting height<br><u>Aux. Hook</u><br>SWL 5 Tonn @ 18,5m<br>500 mtrs lifting height |
| Deck Crane         | : 2 Tonn @ 10mt                                                                                                                                |
| Stern A-Frame      | : SWL 15 Tonn                                                                                                                                  |
| Removable bulwarks | : Port and Starboard side<br>Gate Frame 36 / 43<br>Total length 4720 mm                                                                        |

### CARGO CAPACITIES

|                                     |                       |
|-------------------------------------|-----------------------|
| Water Ballast / Drill Water (*)     | : 1602 m <sup>3</sup> |
| Fresh Water (*)                     | : 1150 m <sup>3</sup> |
| Fuel Oil (*, FP>60°C)               | : 800 m <sup>3</sup>  |
| Liquid Mud (*) (***)                | : 1272 m <sup>3</sup> |
| Brine (**)(***)                     | : 1272 m <sup>3</sup> |
| Dry Bulk (*)                        | : 300 m <sup>3</sup>  |
| Methanol (*)                        | : 206 m <sup>3</sup>  |
| ORO 2nd Line (**)                   | : 635 m <sup>3</sup>  |
| Base Oil (**)                       | : 950 m <sup>3</sup>  |
| Cargo and Ballast Monitoring System | : IAS - Fitted        |
| Tank washing                        | : Available           |
| Agitator LM Tanks System            | : Available           |
| Sewage Treatment Unit               | : Available           |

\* Resolutions A673(16) Annex 1 carried out in LM/O.R.O Tanks

\*\* Dual Purpose tank

\*\*\* Multipurpose tank: LM/O.R.O/Base Oil

### CARGO PUMPS

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| Drill water        | : 2 x 100/56 m <sup>3</sup> /h at 9/2,2 Bar         |
| Potable water      | : 2 x 100 m <sup>3</sup> /h at 8 Bar (0-100%)       |
| Fuel oil           | : 2 x 100 m <sup>3</sup> /h at 9 Bar (0-100%)       |
| Base Oil           | : 100 m <sup>3</sup> /h at 9 Bar (0-100%)           |
| Liquid mud / Brine | : 3 x 75 m <sup>3</sup> /h at 14 Bar (0-100%)       |
| Liquid mud / ORO   | : 1 x 75 m <sup>3</sup> /h at 14 Bar screw (0-100%) |
| Methanol           | : 2 x 75 m <sup>3</sup> /h at 9 Bar (0-100%)        |

### DRY CARGO CAPACITIES

|                           |                            |
|---------------------------|----------------------------|
| 4 pressure tanks for bulk | : 644 t                    |
| cement/barite             | : 300 m <sup>3</sup>       |
| Compressor capacity       | : 1200 m <sup>3</sup> /h   |
| Work pressure             | : 5,6 bar                  |
| Discharging capacity      | : 2 x 100 t/h at 90 m head |
| Pipe and manifold         | : 2 x 5" Weco              |

### PIPE LINE CONNECTIONS

|                      |                                      |
|----------------------|--------------------------------------|
| Dry Bulk             | : 5" Hammer Lug Union (Weco) Male    |
| Liquid Mud           | : 5" Avery Hardoll Male              |
| Fuel oil             | : 5" Avery Hardoll Male              |
| Potable Water        | : 5" Hammer Lug Union (Weco) Male    |
| Ballast Drill Water  | : 5" Hammer Lug Union (Weco) Male    |
| Methanol             | : 5" Avery Hardoll Male              |
| Reducers Connections | : 4" and 5" for each connection type |

### GENERATORS AND PROPULSION

|                             |                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------|
| Main generators Power       | : MTU - 4x 16V4000M33S<br>4 x 2080 kW @ 1800 rpm                                               |
| Propellers                  | : RR - 2 x 2300 kW Azimuth Thrusters<br>Dia. 2800mm - Variable speed<br>Fixed pitch in nozzles |
| Tunnel thruster             | : RR - 2 Tunnel Bow Thruster<br>2 x 900 Kw / 1224 Bhp                                          |
| Emergency/Harbour generator | : 1 x 375 kVA                                                                                  |

### DP SYSTEM - MANOEUVRING

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| DP Class                 | : II                                                                                                  |
| DP Type                  | : Kongsberg                                                                                           |
| Gyro Compass             | : 3 Navigat X Mk1                                                                                     |
| Position Reference Units | : 3 x DGPS + 3 Wind Sensor                                                                            |
| Laser Reference          | : 1 x Cyscan Mk4                                                                                      |
| Acoustic Reference       | : 1 x HiPap 500 + 1 Trunk available                                                                   |
| Motion Reference         | : 3 x MRU                                                                                             |
| ERN                      | : 99.97.84.63                                                                                         |
| Joystick                 | : Kongsberg C-Joy / Fully integrated<br>Serviceable from various wheelhouse<br>positions + 1 portable |

### NAVIGATION EQUIPMENT

- 1 x Radar, JRC JMA-5300, ARPA X-band
- 1 x Radar, JRC JMA-5300, ARPA S-band
- 2 x high resolution color display, radar plotter 19"
- 1 x Radar repeater (slave radar) at aft wheelhouse console
- 2 x JRC JAN-2000 MK2 ECDIS
- 2 x GPS JRC, JLR-7500
- 1 x Navtex JRC
- 1 x Echo Sounder JRC JFE-380-25
- 1 x Doppler Speed Log – JLN-550
- 1 x AIS, JRC JHS-183
- 1 x Magnetic Compass PLATH
- 1 x Navitron AUTOPILOT
- 1 x Doppler Log - Off Course Alarm JRC
- 1 x BNWAS/1, NAVITRON
- 1 x Voyage Data recorder JVV-1900

CCTV coverage for all key areas with display at Wheelhouse and ECR

### COMMUNICATION EQUIPMENT

GMDSS Station Area A1+A2+A3

- V-SAT SAILOR Data/Mail transfers/VoIP phone
- 1 FBB 500 - VSAT backup
- 1 MF/HF JRC DSC +ATIS
- 2 VHF DSC JRC
- 3 Emergency VHF JOTRON TRON
- 2 INMARSAT C, JRC, JUE-85
- 1 INM-C, SSAS, SAILOR
- 1 EPIRB JOTRON TRON
- 2 SART JOTRON TRON
- 1 Public Address System
- Talk Back System between DP station, Control Rooms and ECR

### ACCOMODATION

| Type of cabins        | No. of cabins | No. Of berths |
|-----------------------|---------------|---------------|
| 1 man cabins          | 4             | 4             |
| 2 man cabins          | 23            | 46            |
| Hospital / Dispensary | 1             | 2             |
| Quarantine Cabin      | 1             | 1             |
| Total number of bunks |               | 50 + 3        |

Allowable to accommodate 8 pax more through an Accommodation modules.

Total POB Vessel's capacity : 57 + 3 Persons on board

|                   |                                      |
|-------------------|--------------------------------------|
| Meeting Room      | : Fitted                             |
| Client Office     | : Fitted                             |
| Processing Office | : Fitted                             |
| Wet Laboratory    | : Fitted                             |
| Ship's Office     | : Fitted                             |
| Recreation Rooms  | : Gym, Day room Lounge, Smoking Room |
| Sky Lobby         | : Fitted                             |

### FIRE FIGHTING

*FiFi, class I*

The fire fighting system consists of the following main components:

- 2 off fire-fighting centrifugal pumps OGF250X350 COMBI capacity: 1650 m<sup>3</sup>/h head: 130 mlc 1800 rpm / 800 Kw
- 2 single/dual flow monitors joystick controlled from bridge capacity: 1200 m<sup>3</sup>/h - 12,0 bar throw length – capacity full : 140 m
- Water spray system

### RESCUE AND LIFESAVING EQUIPMENT

1 x Fast Rescue Boat (8 pax)

6 x Liferafts (25 pax each)

2 x Search Light remotely controlled from bridge

6 x Lifebuoys provided with strobe lights and lifelines

1 x Hospital with treatment bench, racks for stretchers,

Desk, medicine, poison locker

1x Dispensary with medical equipments / medicine in accordance with Flag's State and International requirements

1 x Quarantine Cabin

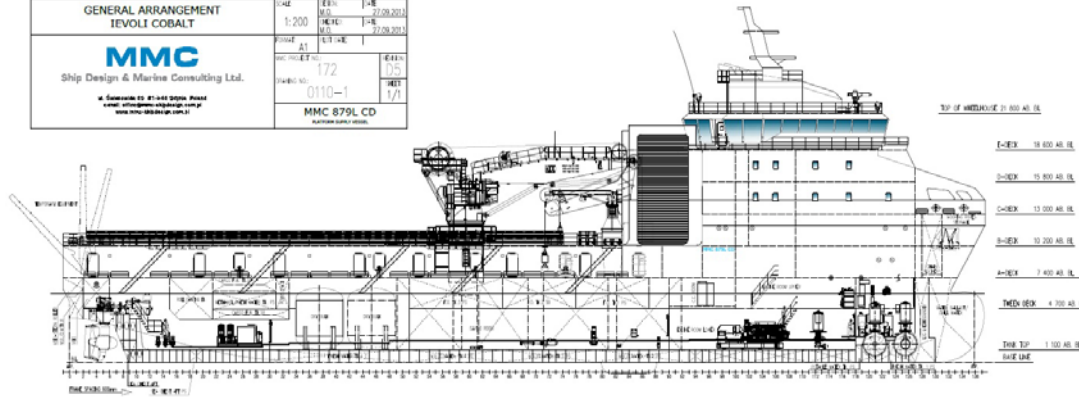
This specification is subject to alteration without prior notice

# MARNAVI

# Ievoli Cobalt - MMC 879L CD MPSV Design

## Multi Purpose Supply Vessel

|                                         |     |            |                                                                                                                                                                                        |     |            |
|-----------------------------------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|
| Ievoli Cobalt - 879L                    |     |            | This drawing is the property of MMC and is to be used only for the purpose of the design of the vessel. It is not to be used for any other purpose without the written consent of MMC. |     |            |
| DATE                                    | REV | DATE       | DATE                                                                                                                                                                                   | REV | DATE       |
| 1:200                                   | NO. | 27/09/2011 | 1:200                                                                                                                                                                                  | NO. | 27/09/2011 |
| <b>MMC</b>                              |     |            | <b>MMC 879L CD</b>                                                                                                                                                                     |     |            |
| Ship Design & Marine Consulting Ltd.    |     |            | MMC 879L CD                                                                                                                                                                            |     |            |
| A. Caramanna & C. S.p.A. Design Project |     |            | MMC 879L CD                                                                                                                                                                            |     |            |
| 01110-1                                 |     |            | MMC 879L CD                                                                                                                                                                            |     |            |
| 172                                     |     |            | MMC 879L CD                                                                                                                                                                            |     |            |
| 05                                      |     |            | MMC 879L CD                                                                                                                                                                            |     |            |
| 1/1                                     |     |            | MMC 879L CD                                                                                                                                                                            |     |            |



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