

VESSEL:

# CMV ATHOS

CLASSIFICATION:  
AHTS (DP2)



**BHAGWAN**<sup>BM</sup>  
marine



## TECHNICAL SPECIFICATIONS

<b>BUILT:</b>	2017
<b>CLASSIFICATION</b>	
<b>CLASSIFICATION:</b>	ABS + A1; AH; Offshore Support Vessel; Supply; Tow; (E) AMS; DPS2
<b>IMO:</b>	9693874
<b>TRADING AREA:</b>	A1
<b>CALL SIGN:</b>	VMER
<b>DIMENSIONS</b>	
<b>LENGTH OVERALL:</b>	65.00m
<b>BREADTH MOULDED:</b>	16.00m
<b>DEPTH MOULDED:</b>	6.20m
<b>DRAFT (DESIGN):</b>	5.00m
<b>DRAFT (SCANTLING):</b>	5.20m
<b>GRT / NRT:</b>	2237GT / 671NT
<b>CAPABILITIES</b>	
<b>PERFORMANCE SPEED:</b>	12 knots
<b>BOLLARD PULL:</b>	86 tons
<b>ACCOMMODATION</b>	
<b>TOTAL BERTHS:</b>	50 (8 x single berth, 3 x double berth, 9 x 4 berth)
<b>CARGO CAPACITIES</b>	
<b>DEADWEIGHT:</b>	1878.3t
<b>DECK CARGO:</b>	600t
<b>CARGO DECK DESIGN LOAD:</b>	7.0 t/m <sup>2</sup>
<b>DECK CARGO SPACE:</b>	447m <sup>2</sup>

## TANK CAPACITY (APPROX)

<b>POTABLE WATER:</b>	300m <sup>3</sup>
<b>FUEL OIL:</b>	570m <sup>3</sup>
<b>DRILL WATER / WATER BALLAST:</b>	550m <sup>3</sup>
<b>DRY BULK CARGO TANKS:</b>	150m <sup>3</sup>
<b>BASE OIL:</b>	150m <sup>3</sup>
<b>MUD / BRINE:</b>	370m <sup>3</sup> (SG 2.5)
<b>LUBE OIL:</b>	10m <sup>3</sup>
<b>DIRTY OIL:</b>	10m <sup>3</sup>
<b>FOAM:</b>	10m <sup>3</sup>
<b>DISPERSANT:</b>	10m <sup>3</sup>

## PROPULSION SYSTEM

### MAIN ENGINES

2 x Niigata 2206 KW

### STERN TUBE & PROPELLER

2 x fabricated mild steel tubes  
2 x stern tube oil tanks  
2 x four bladed controllable pitch propellers

### MAIN GENERATORS

3 x 492kw diesel driven alternators (415V/3/50Hz)  
2 x 900kw shaft generator driven by gear box

### EMERGENCY GENERATOR

1 x diesel-driven emergency generator, rated approx. 80kw (415V/3/50Hz)

### BILGE/ BALLAST/ GS/ FIRE PUMPS

2 x vertical self-priming centrifugal SW pump of 100m<sup>3</sup>/hr at 70m total head

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## BILGE PUMPS

2 x set capacity 45m<sup>3</sup>/hr at 30m total head. 1 x daily bilge pump, capacity 2m<sup>3</sup>/hr at 25m total head

## FUEL TRANSFER PUMP

2 x 15m<sup>3</sup>/hr at 20m head horizontal gear

## WATER CARGO PUMPS

1 x vertical centrifugal self-priming pump – FW capacity 100m<sup>3</sup>/hr at 70m head

1x vertical centrifugal self-priming pump – DW capacity 100m<sup>3</sup>/hr at 70m head

## CARGO FUEL PUMP

1 x vertical self-priming screw pump – capacity 150m<sup>3</sup>/hr at 70m head

## LIQUID MUD / BRINE PUMPS

2 x horizontal pumps – capacity 70m<sup>3</sup>/hr when discharging against pressure of 70MLC at mud density of 2.5.

## EMERGENCY FIRE PUMP

1 x horizontal self-priming centrifugal fixed emergency fire pump of 45m<sup>3</sup>/hr at 60m head

## ENGINE COOLING SYSTEM

### LUBE OIL SYSTEM FOR MAIN/AUXILIARY ENGINES OILY BILGE WATER SEPARATOR

1 x MARPOL standard oily water separator complete with pump and oily water discharge alarm. Capacity 1m<sup>3</sup>/hr with oil content less than 15ppm.

## BOW/STERN THRUSTERS

2 x transverse tunnel CP bow thrusters, each giving a thrust of approx 8t, driven by electrical motor

1 x transverse tunnel CP stern thruster, giving a thrust of approx 8t, driven by electrical motor

## SEWAGE TREATMENT PLANT

1 x sewage treatment plant for 50 persons

1 x sewage pump of 5m<sup>3</sup> capacity

## DECK EQUIPMENT

### ANCHOR WINDLASS

1 x electro-hydraulic with 2 cable lifters and 2 warping drums, capacities - 10 tonnes at 9m/min for chain cables.

### ANCHORS

2 x AC-14 HHP stockless anchors, stowed in anchor-pockets, each of 1,440kg.

### CAPSTANS

2 x electro-hydraulic with pulling force of 10 tonnes at 15m/min.

### TOWING & ANCHOR HANDING WINCH

1 set, high pressure electro-hydraulic driven, double drum, waterfall type. Rated pull at first layer: 150 ton at low speed.

### TOWING PIN & SHARK JAWS

### TUGGER WINCH

2 x electro-hydraulic of 10 tonnes @ 15m/min. Each with 1 wire drum and 1 warping head c/w 250m x 22mm dia. wire.

### STERN ROLLER

250t SWL, approx 4.4m long by 1.7m diameter.

## DECK CRANE

1 x electro-hydraulic knuckle crane - SWL 2t at outreach 15m.

## RADIO AND NAVIGATION EQUIPMENT

### GMDSS COMMUNICATION A3 NAVIGATION

Daylight signalling lamp, 24V DV Standard magnetic reflector compass Autopilot, 3 x Gyrocompass, 2 x radars, Echo sounder - 200 KHz c/w transducer, Speed log - Doppler type, range - 10 to 45 knots

3 x Searchlights - 2,000W, 222/1/50

3 x DGPS

## COMMUNICATION

PA / talkback system

A 24-volt internal automatic telephone system

1 x MF/HF, 250W, voice, DSC & NBDP, ship and shore distress alerts

1 x MF/HF DSC watch keeping receiver

2 x 25W VHF, 220/1/50 & 24V DC

2 x VHF watch receiver with DSC decoder

3 x 2-way VHF handheld transceivers, waterproof type.

1 x Navtex receiver, SSAS, 1 x Inmarsat 'C' EPRIB, GMDSS satellite 408 MHz EPRIB

2 x SART, GMDSS 9GHz

TV antenna - 14 outlets

## FIRE FIGHTING

### EXTERNAL FIRE-FIGHTING SYSTEM

FiFi System Class 1

### FIRE PUMPS

2 x seawater pumps 1650m<sup>3</sup>/hr @ 140m head

### FIRE MONITORS

2 x monitors at 1200m<sup>3</sup>/hr each (one dual barrel water/foam).

### FIXED WATER SPRAYING SYSTEM

## LIFE SAVING EQUIPMENT

Liferafts - 6 x 25 persons inflatable liferafts

Lifebuoys - 8, Lifejackets - 50

Pyrotechnics - 1 x line throwing apparatus, 12 x parachute distress rockets, 2 x orange smoke signals, 6 x hand flares.

Rope ladders - 2

Rescue boat & davit - to carry 9 persons with davit for launching over one side.



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