

INDEPENDENT INNOVATIVE SOLUTIONS

OSD-IMT5201

SHALLOW DRAFT LNG BUNKER VESSEL

GENERAL INFORMATION

Vessel Type	LNG Bunker Vessel
Class	Bureau Veritas
Notation	I + HULL, +MACH Liquefied Gas Carrier – LNG, Dualfuel, Unrestricted Navigation, + VeriSTAR-Hull DFL(40), +AUT-UMS, +SYS-NEQ-1, INWATERSURVEY, MON-SHAFT, CPS(WBT, CLEANSHIP, COMF-NOISE 2, COMF-VIB2
LOA	99.40 m
LBP	94.31 m
Beam	20.70 m
Depth	9.00 m
Design Draft	3.70 m
Gross Tonnage	6500 (approx.)
Net Tonnage	TBC

CAPACITIES

Marine Diesel Oil	240 m ³ at 98% (approx.)
Fresh Water	180 m ³ at 100% (approx.)
Ballast / FW	3000 m ³ (approx.)
Lub oil	8 m ³
Sludge	4 m ³

ACCOMMODATION (AIRCONDITIONED)

Complement	15 Persons
Officers and Crew	11 @ single en suite cabins 2 @ single en suite state room
Facilities	
Main Deck	Gym, Laundry, Duty Mess Ships Office
01 Deck	Hospital, Lounge, Messroom & Galley
02 Deck	8 single crew cabins, Officer Lockers
03 Deck	2 single Officer Cabins, Chief Mate & 1st Eng. State rooms, Captain & Ch Engr State rooms

PERFORMANCE

Fwd Store Crane	1 @ SWL 1.5t @ 3 m
Aft Store Crane	1 @ SWL 2.0t @ 3 m
Hose Handling Cranes	2 @ SWL 1.5t @ 3 m

MAIN MACHINERY

Main Generator Sets	3 @1100 kW @ 1200 rpm
Gearboxes	2 @ reduction 4.8:1
Propulsion Motors	2 @ 1100 kW @ 1200 rpm
Propellers.	2 @ F.P. 2.5 m dia
Emergency Generator	1 300kW @ 1800 rpm
Bow Thruster	1 @ 400kW Cp approx. 900mm dia
Steering gear	Hydraulic rotary vane type
Electrical supply	420 volt 3 ph 60 cycles
Steam Boiler	Duel Fuel capable of producing 1 t/ hr
Exhaust Gas Economizers	

CARGO SYSTEMS

2 x Membrane type GTT	6000 m ³
Mark III Flex Tanks	
Min Cargo Temp	-163°C
Op Vapor Pressure	1.06 bar
Nitrogen Generators	2 @ 25Nm ³ /hr
Loading rate	simultaneous filling @ 1000 m ³ /hr
Discharge rate	simultaneous discharge @ 600 m ³ /hr
Pumps	2 off 150 m ³ /hr vertical, submerged, single stage centrifugal pumps per cargo tank 1 off 50 m ³ /hr emergency pump per cargo tank 1 off 10 m ³ /hr combined fuel, cargo stripping, spraying pump per tank
Tank Warming Heaters	Steam based heater (200 kW to warm 0°C to 80°C
Vaporizer	Steam heated
Forcing	LNG mass flow 800 kg/hr @ -100°C
LNG Vaporizer	LNG mass flow 550 kg/hr -Gas Filling LNG mass flow 950 kg/hr - Discharge LNG mass flow 700 kg/hr - Inerting
Gas Combustion Unit	Unit Approx. 350 kg/hr

PERFORMANCE

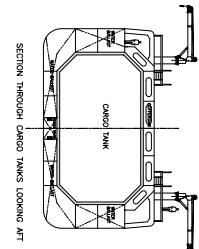
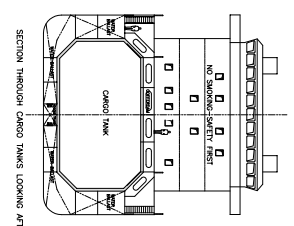
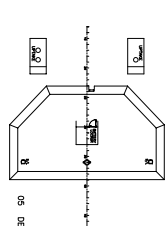
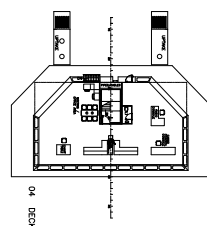
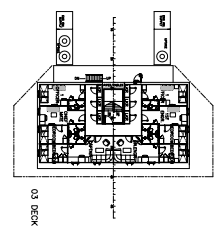
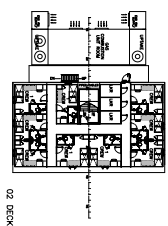
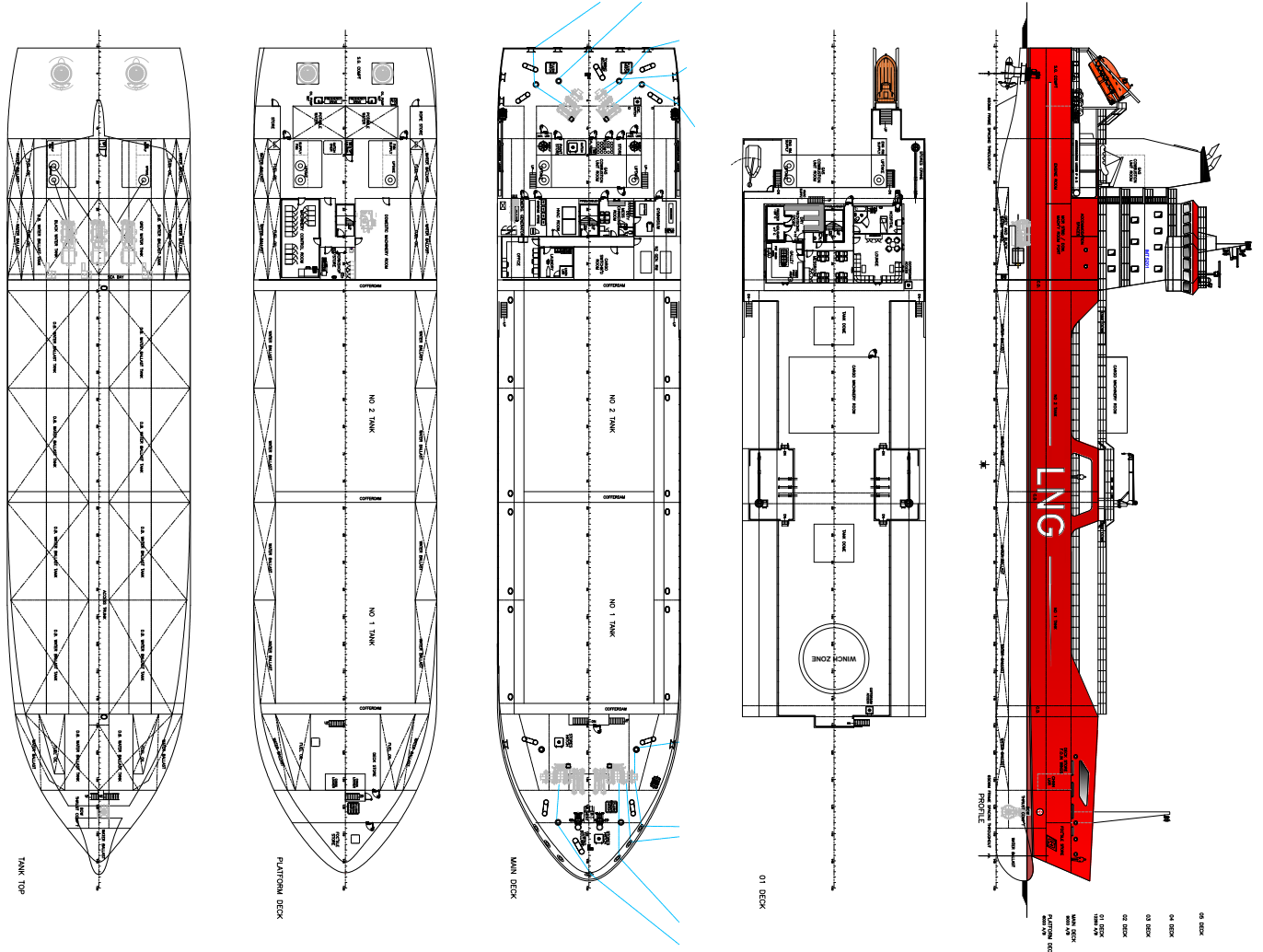
Service Speed	11.5 knots approx
---------------	-------------------

OSD IMT

SHIP DESIGN & MARINE CONSULTANCY

OSD-IMT.com

OSD-IMT5201 - SHALLOW DRAFT LNG BUNKER VESSEL



HEAD OFFICE HOOFDDORP

+31 255 545 070

info@osd-imt.com

UK OFFICES

+44 1382 317 120

info@osd-imt.com

SINGAPORE OFFICE

+65 6265 1154

info@osd-imt.com

OSD IMT

SHIP DESIGN & MARINE CONSULTANCY

OSD-IMT.com