

FORM C

DESCRIPTION OF THE VESSEL

Vessel name: Yuricosmos

1. GENERAL

1.1	Builder and Yard Hull No.	Mitsubishi Heavy Industry Nagasaki 2246
1.2	Year built	2010
1.3	Flag	Panama
1.4	Signal Letters and Normal Station Watched	3FIC7 / VHF Ch 16 and 70
1.5	Classification	Nippon Kaiji Kyokai (NKK)
1.6	I.M.O. Certificate of Fitness	
1.7	USCG Letter of Compliance	

2. DIMENSIONS

2.1	Length overall	230.0 m
2.2	Length between perpendiculars	219 m
2.3	Beam (MLD)	36.60 m
2.4	Moulded depth	20.80 m
2.5	Scantling draught (MLD)	10.80 m
2.6	LPG loaded draught (MLD)	10.52 m (Propane), 10.80 m (Butane)
2.7	Design Extreme Draught	11.029 m (Tropical), 10.804 (Summer)
2.8	Max height of mast above waterline (air draft) in SDWT condition	36.336 m
	Max height of mast above waterline (air draft) in ballast condition	39.55m
	Max height of mast (in collapsed condition) above waterline (air draft) in SDWT condition	0.0 m (N/A)
	Max height of mast (in collapsed condition) above waterline (air draft) in SDWT condition	0.0 m (N/A)
2.9	Height from keel to top of mast	47.14 m

FORM C

3. TONNAGE

3.1	Deadweight tonnage on LPG loaded draught	49,999 mt (Full load Butane)
3.2	Gross registered tonnage	46,025
3.3	Net registered tonnage	13,808
3.4	Light ship displacement	18,239 Tonnes
3.5	Displacement	68,238 Tonnes @ SDWT
3.6	Suez Canal Net Tonnage	42,785.94 T

4. MACHINERY

4.1	Main Engine type, Make Maximum Power and RPM Grade of Fuel	Type: MHI 7UEC60LFII Make: MITSUBISHI HEAVY INDUSTRIES Max power: 12,360kW (16,800PS)@ 100min-1
4.2	Main Boilers Type, Make	Composite Boiler
4.3	Maximum evaporation Service evaporation	2,500kg/h (Aux. boiler oil burning section) 850 kg/h (Exhaust Gas Economizer)
4.3	Electrical Generating sets and maximum output per unit	880kW x 3 sets
	Number used at sea	1 set (no Cargo plant) or 2 sets (with Cargo Plant)

5. SPEED

5.1	Guaranteed service speed	(Trial Condition) Actual:
-----	--------------------------	------------------------------

6. ENERGY CONSUMPTION

6.1	At guaranteed speed	/
6.2	For Inert Gas Generation	/

7. FRESH WATER CAPACITY AND CONSUMPTION

7.1	Capacity of FW generators	t/day
7.2	Capacity of Tanks Boiler Feed	368 Cu. Metres 1.5m3 (ATMOS DRAIN TANK)

FORM C

Domestic

8. BUNKER CAPACITY

Capacity of tanks (85% full)

8.1	Fuel Oil (density 0.990)	2,355.80 Cu. Metres
8.2	Diesel Oil (density 0.900)	289.90 Cu. Metres

9. CARGO TANKS

9.1	Number	4
9.2	Type of Construction	Independent prismatic type and made of low temperature steel
9.3	Type, Details of Insulation	Type A,
9.4	Minimum Temperature	-46 Degrees Celsius
9.5	100% capacity at -163°C	
	No.1 Tank	17,992.786 Cu. Metres
	No.2 Tank	20,520.528 Cu. Metres
	No.3 Tank	20,515.656 Cu. Metres
	No.4 Tank	19,878.456 Cu. Metres
	Total	78,907.680 Cu. Metres
9.6	Loading/filling restrictions	YES (98% Max.)
9.7	The vessel's cargo tanks can be cooled down from ambient temperature for initial loading within . (Compressor capacity from Propane -38 to -42 deg c) =	160 Hrs
9.8	Cargo Loading Performance. The Vessel is capable of receiving a full cargo (including Slow start and topping up, but excluding cooling of pipes, connecting/disconnecting) in less than hours, provided the cargo tanks are properly cooled down and the vapour return line is suitable for the vessel to use the HD compressors.	
9.9	Maximum filling rate	: 4,400 Cu. Metres/Hour
9.10	Relief valve settings	Press. Side : + 28 KPa g (Primary set) (Sea-Going) : +50 KPa g (Secondary set) (Harbour setting) Vacuum side : - 2 KPa g
9.11	Loaded boil-off design rate	The Boil of Rate during the laden voyage shall be equal to or less than <u>Cu. Metres</u> of the full loaded cargo per day. (N/A)

FORM C

10. CARGO PUMPS

- 10.1 Number per tank 2 main cargo pumps and one Emergency pump
- 10.2 Type and Make Centrifugal / Submerged
- 10.3 Rated capacity of each 550 Cu. Metres/Hour
- 10.4 Cargo Discharging Performance.
The vessel is capable of discharging a full cargo of LPG through 3 liquid arms in less than 24 hours (including slow start and rate down, exclusive of cooling of pipes, connecting/disconnecting and stripping) under a maximum back pressure of 4.2 bar g of LPG at the manifold discharge flange (after ships 60/20 mesh strainers) at the half cargo tank level in the tank with a specific gravity of 0.5 and conical strainer on line, using all cargo pumps simultaneously with vapour connection to shore.
If a Vapour connection is not supplied the vessel should be able to still comply with the above statement generating return vapour using the cargo vaporiser. (Yes)

11. SPRAY PUMPS

- 11.1 Number per Tank Nil
- 11.2 Type and Make N/A
- 11.3 Rated capacity of each pump N/A

12. CARGO INSTRUMENTATION

- 12.1 Number and type of main level gauges and accuracy
Number : 8 (2 each tank)
Type : Electric float type
- 12.2 Number and type of back-up level gauges and accuracy. N/A
- 12.3 Number of temperature Sensors in each tank and
Number : 6 (in tank)
- 12.4 Position of temperature sensors within cargo tanks
Upper (P & S) : 900mm upper from TK top skin
Middle (P & S): 1600mm lower from TK top skin
Lower (P &S) : 10mm upper from TK bottom
Pump sump (P & S) : in pump sump
- 12.5 Number and type of pressure sensors and accuracy
Number : 4
: 4 (hold)
Type : Electronic Differential type
Accuracy :

13. INERT GAS GENERATION

- 13.1 Type and make of equipment
Gin3000-0.3BUFD
AALBOLG INDUSTRIES

FORM C

13.2 Capacity 3,000N Cu. Metres/Hour

13.3 Quality of Gas
O2: Max.1% by volume
CO2: Abt 13%by volume
CO: Max1,000ppm
H2:
O2:

14. NITROGEN STORAGE

14.1 Consumption

14.2 Tank Capacity & Pressure 7 Cu. Metres 15MPa

15. BALLAST

15.1 Tank capacity 23,757.5 Cu. Metres

15.2 Number and rating of ballast pumps
Number : 2
750/450 Cu. Meter / hour x 25/50 m TH (S.W.)

15.3 The Vessel is capable of loading/discharging ballast concurrent with cargo operations
Yes

16. GAS COMPRESSORS

16.1 High Duty

16.2 Low Duty

17. DECK MACHINERY

17.1 Winches 8 – Electro-hydraulically driven type

Type 147KN(15t) x 15m/min

17.2 Size of Ropes 34 mm

17.3 Derricks, Cranes etc. 1 – Electro-hydraulically driven type
49KN (5t) x 10m/min

18. NAVIGATION AND RADIO

18.1 Navigation Aids 2 GPS, 1-ECDIS, 2-ARPA, 1-AIS, 1 Echo-sounder,
1 Course recorder, 2 Gyro, Magnetic compass.

18.2 Radio Equipment

FORM C

19. CREW MEMBERS

19.1	Nationality - Officers	Indian & Filipino
	Nationality - Crew	Filipino
19.2	Number of Officers	10
	Number of Crew	10

This form was completed using the services of www.Q88.com