SHELL 140500M³ LNG CARRIER

MACHINERY EQUIPMENT

EQUIPMENT	Q'TY	SPECIFICATION	MAKER
MAIN TURBINE	1	TYPE : CROSS COMPOUND MCR : 32400SHP × 85RPM STEAM : 50.0kgf/㎠ × 510°C : 10.2kgf/㎠ × 510°C	KAWASAKI
MAIN BOILER	2	TYPE : VERT. 2-DRUM WATER TUBE CAPA. : MAX.55 tonnes/h, NOR.50 tonnes/h STEAM : 60.3kgf/㎠ 515°C	MITSUBISHI
PROPELLER	1	TYPE : C.P. PITCH NO. OF BLADE : FIVE(5)	H.H.I
TURBO GENERATOR	3	TYPE : MATSU-TAI CAPA. : 2,500KW × 1,800RPM STEAM : 50.0kgf/㎠ × 510°C : 10.2kgf/㎠ × 510°C	MITSUBISHI
DIESEL GENERATOR (EMERGENCY)	2	TYPE : 4 STROKE TRUNK PISTON CAPA. : 1,000KW × 1,800RPM	STX CORPORATION
EMERGENCY GENERATOR	1	TYPE : 4-STROKE, AIR COOLED CAPA. : 540KW × 1,800RPM	DEAP
INCINERATOR	1	CAPA. : WET TYPE,700 kgs/hr SOLID WASTE : 40 kgs/h OIL BLEND : 40 kgs/h	KANG RIM

DECK EQIPMENT

EQUIPMENT	Q'TY	SPECIFICATION	MAKER
ANCHOR	2	TYPE : HIGH HOLDING POWER HOOKS CAPA. : 12.0Tonner	KUM WHA CAST STEEL IND. CO. LTD.
LIFE BOAT	2	TYPE : TOTALLY ENCLOSED CAPA. : 42 persons	SCHAT-WINDING
LIFE RAFT	5	TYPE : Inflatable × 4 sets CAPA. : 9 persons × 1 set	VIKING
RESCUE BOAT	1	TYPE : RIGID BOX SECTION TYPE CAPA. : 6 persons,12V DIESEL ENGINE	SCHAT-WINDING
PROVISION CRANE (LIFE CRANE)	2	TYPE : ELECT-HYDRAULIC DRIVEN CAPA. : SWL 1ton	TTS MARINE
HOSE HANDLING CRANE	2	TYPE : ELECT-HYDRAULIC DRIVEN CAPA. : SWL 3ton	TTS MARINE

DECK MACHINERY

EQUIPMENT	Q'TY	SPECIFICATION	MAKER
STEERING GEAR	1	TYPE : ELECT-HYDR. (RAM ACTI.) CAPA. : 300 ton-m (2 ram) MOTOR : 440V × 60Hz × 3Ph × 80Kw	KOCKS
MOORING WINCH (MESHLAS)	9	TYPE : COMPACT COMBINED MOORING WINCH(MESHLAS × 2ea) CAPA. : 25Ton × 51m/min MOORING WINCH × 7 sets CAPA. : 25Ton × 51m/min	KOCKS
BOW THRUSTER	1	TYPE : DUCT MOTOR DRIVEN CAPA. : 2000m × 5 ㎥ BLADES : FIXED(4)	BRAMVALL AS

NAVIGATION EQUIPMENT

EQUIPMENT	Q'TY	SPECIFICATION	MAKER
NO.1 RADAR (S-BAND)	1	MODEL : 0620SP	KAIJO
NO.2 RADAR (X-BAND)	1	MODEL : 0620SP	KAIJO
RADIO PLANT / GMDSS EQUIPMENT	1	MODEL : COMPACT 4000	SAILOR
GYRO RADIO SYSTEM	2	MODEL : RT-6822/NA-111/RT-6722/NO.231	SAILOR
TRANSIT-C	1	MODEL : SATURN 5M	NEC
TRANSIT-C	1	MODEL : HX-5000	SAILOR
RUDDER ANGLE INDICATOR	1	MODEL : F-7000	ROLLS-ROYCE
ECHO SOUNDER	1	MODEL : DER 120L	SKIPPER
SPEED LOG	2	MODEL : FAP(SEMI/DOP) CAPA. : 0.5~50 KN (DEW 200)	ANRITSU KEIKI TOKYOKEIKI
GYRO COMPASS	2	MODEL : NAVIGAT X MK2	C.PLATH
MAGNETIC COMPASS	1	MODEL : MARSPEL 1	C.PLATH
AUTO PILOT	1	MODEL : AP2000 TRACK	RAYS
GAYRER RECEIVER	1	MODEL : NAVS	SAILOR

BALLAST SYSTEM

EQUIPMENT	Q'TY	SPECIFICATION	MAKER
BALLAST PUMP	3	TYPE : VERT. CENTRIFUGAL CAPA. : 3000 ㎥/h × 30 mTH	SHINWHA
BALLAST STRIPPING EDUCTOR	1	CAPA. : 300 ㎥/h	KIMON

CARGO HANDLING EQUIP.

EQUIPMENT	Q'TY	SPECIFICATION	MAKER
MAIN CARGO PUMP	8 × 1 (spare)	TYPE : VERT. CENTRIFUGAL SUBMERGED CAPA. : 1,500m³/h × 145mLc	EBARA
STRIPPING / SPRAY PUMP	4 × 1 (spare)	TYPE : VERT. CENTRIFUGAL SUBMERGED CAPA. : 50m³/h × 135mLc	EBARA
DRY CARGO PUMP	1	TYPE : HORIZONTAL CENTRIFUGAL CAPA. : 550m³/h × 145mLc	EBARA
VACUUM PUMP	2	TYPE : ROTARY VANE CAPA. : 1,200㎥/h	MPEI
LINE VAPORIZER	1	TYPE : SHELL & TUBE CAPA. : 2,500㎥/h	CRYOSTAR
FORCING VAPORIZER	1	TYPE : SHELL & TUBE CAPA. : 1,400㎥/h	CRYOSTAR
INERT GAS GENERATOR	1	TYPE : I.G.GENERATOR CAPA. : 50㎥/h × 250mmAq	HYUNDAI EngE
HIGH DUTY COMPRESSOR	2	TYPE : HORIZONTAL CENTRIFUGAL CAPA. : 13,000㎥/h × 1,96 bar	CRYOSTAR
LOW DUTY COMPRESSOR	2	TYPE : HORIZONTAL CENTRIFUGAL CAPA. : 3,000㎥/h × 1,96 bar	CRYOSTAR
GAS HEATER (LOW DUTY)	2	TYPE : SHELL & TUBE CAPA. : 4,400㎥/h	CRYOSTAR
CARGO TANK SAFETY VALVE	6	TYPE : PILOT OPERATED CAPA. : 1,500㎥/h × 2mm-g : 1,400㎥/h × 1mm-g	FUKUI
INSULATION SPACE SAFETY VALVE	16	TYPE : PILOT OPERATED CAPA. : PRESSURE : 5mm-g	FUKUI

FIRE FIGHT APPARATUS

EQUIPMENT	Q'TY	SPECIFICATION	MAKER
BILGE,FIRE & G/S PUMP	2	TYPE : VERTICAL CENTRIFUGAL CAPA. : 150m³/h × 110mTH	SHIWHO
No.1 EMCY FIRE PUMP No.2 EMCY FIRE PUMP	1 1	TYPE : VERTICAL CENTRIFUGAL CAPA. : 150m³/h × 110mTH : 250m³/h × 110mTH	SHIWHO SHIWHO
WATER SPRAY PUMP	1	TYPE : VERTICAL CENTRIFUGAL CAPA. : 150m³/h × 110mTH	SHIWHO
JOCKEY PUMP	2	TYPE : HORIZONTAL CENTRIFUGAL CAPA. : 10m³/h × 110mH	SHIWHO
DRY POWDER SYSTEM	1	TYPE :	N.K.CO.,LTD.
FIXED CO2 FIRE EXT. SYSTEM	1	TYPE : HIGH PRESSURE CAPA. : 45 BOTTLE, 2ea & 2ND RUM 9ea, ETC.	N.K.CO.,LTD.
HOT FORM FIRE FIGHT SYSTEM	1	CAPA. : 7710 l/min/㎡/h	UNITOR

CARGO TANKS

COMPARTMENT	LOCATION (FR.NO.)	CAPACITIES VOLUME 100% (M³)	CAPACITIES VOLUME 98% (M³)	CEN.OF GRAVITY L.C.G (M)	CEN.OF GRAVITY V.C.G (M)	MAX F.S.MOM. (M⁴)
NO.1 CARGO TANK	141~193	21797.8	21353.5	80.06	18.61	19339
NO.2 CARGO TANK	104~105 / 106~141	42631.2	39833.1	40.61	18.48	39324
NO.3 CARGO TANK	67~103	45442.1	39613.8	-1.50	18.48	39324
NO.4 CARGO TANK	32~66	31800.9	27974.1	-41.59	18.48	23000
SUB. TOTAL		141672.1	127774.5			

WATER BALLAST TANKS

(S.G.= 1.025)

COMPARTMENT	LOCATION (FR.NO.)	CAPACITIES VOLUME 100% (M³)	CAPACITIES WEIGHT 100% (TONNES)	CEN.OF GRAVITY L.C.G (M)	CEN.OF GRAVITY V.C.G (M)	MAX F.S.MOM. (M⁴)
F.P.TK	184~F.P.	1105.9	1133.6	130.83	12.38	4205
FWD DEEP W.B.TK(P)	184~197	1379.5	1414.0	126.79	6.47	2625
FWD DEEP W.B.TK(S)	184~197	1379.5	1414.0	126.79	6.47	2625
NO.1 W.B.TK(P)	153~184	5877.3	6024.8	83.35	12.48	9449
NO.1 W.B.TK(S)	153~184	5877.3	6024.8	83.35	12.48	9449
NO.2 W.B.TK(P)	133~153	5798.0	5942.5	58.39	6.47	25253
NO.2 W.B.TK(S)	133~153	5798.0	5942.5	58.39	6.47	25253
NO.3 W.B.TK(P)	88~133	5914.5	6062.4	-3.00	6.54	27951
NO.3 W.B.TK(S)	88~133	5914.5	6062.4	-3.00	6.54	27951
NO.4 W.B.TK(P)	51~88	5233.1	5363.9	-54.98	6.97	22601
NO.4 W.B.TK(S)	51~88	5233.1	5363.9	-54.98	6.97	22601
F/W W.B.TK(P)	48~71	931.9	955.2	-75.00	13.05	1229
F/W W.B.TK(S)	48~71	931.9	955.2	-75.00	13.05	1229
A.P.TK	15~21	1139.4	1168.0	151.83	13.49	1728
SUB. TOTAL		53102.3	54430.1			

FRESH WATER TKS

(S.G.= 1.000)

COMPARTMENT	LOCATION (FR.NO.)	CAPACITIES VOLUME 100% (M³)	CAPACITIES WEIGHT 100% (TONNES)	CEN.OF GRAVITY L.C.G (M)	CEN.OF GRAVITY V.C.G (M)	MAX F.S.MOM. (M⁴)
DISTILLED W.TK(P)	7~15	222.6	222.6	155.37	19.76	198
DISTILLED W.TK(S)	7~15	222.6	222.6	155.37	19.76	198
FRESH WATER TK(P)	8.C~7	151.6	151.6	157.03	18.20	99
FRESH WATER TK(S)	8.C~7	151.6	151.6	157.03	18.20	99
SUB. TOTAL		748.4	748.4			

FUEL OIL TANKS

(S.G.= 0.990)

COMPARTMENT	LOCATION (FR.NO.)	CAPACITIES VOLUME 100% (M³)	CAPACITIES WEIGHT 98% (TONNES)	CEN.OF GRAVITY L.C.G (M)	CEN.OF GRAVITY V.C.G (M)	MAX F.S.MOM. (M⁴)
A.P.H.FUEL TK(C)	118~131	1068.4	1051.6	111.49	12.54	854
NO.1 F/O H.F.O.TK(S)	83~111	499.9	485.0	-90.31	13.55	29
NO.2 F/O H.F.O.TK(S)	48~71	499.9	485.0	-75.00	13.05	29
LOW SULPHUR TK(S)	48~63	509.7	494.5	-75.00	13.05	11
NO.1 F.O.SETT.TK(P)	48~63	509.7	494.5	-75.00	13.05	11
NO.2 F.O.SETT.TK(P)	48~63	509.7	494.5	-75.00	13.05	11
SUB. TOTAL		3597.4	3509.1			

DIESEL OIL TANKS

(S.G.= 0.900)

COMPARTMENT	LOCATION (FR.NO.)	CAPACITIES VOLUME 100% (M³)	CAPACITIES WEIGHT 90% (TONNES)	CEN.OF GRAVITY L.C.G (M)	CEN.OF GRAVITY V.C.G (M)	MAX F.S.MOM. (M⁴)
D.G.SERV.TK(P)	43~47	302.0	272.5	-99.94	18.48	51
D.G.SERV.TK(S)	43~47	302.0	272.5	-99.94	18.48	51
NO.1 D.O.SERV.TK(P)	42~44	12.8	10.8	-100.00	22.74	5
NO.2 D.O.SERV.TK(S)	42~44	12.8	10.8	-100.00	22.74	5
SUB. TOTAL		631.2	569.7			

LUBRICATING OIL TANKS

(S.G.= 0.900)

COMPARTMENT	LOCATION (FR.NO.)	CAPACITIES VOLUME 100% (M³)	CAPACITIES WEIGHT 90% (TONNES)	CEN.OF GRAVITY L.C.G (M)	CEN.OF GRAVITY V.C.G (M)	MAX F.S.MOM. (M⁴)
MAIN L.O.SUMP(P.S.)	32~38	33.4	29.8	-107.00	11.97	1
MAIN L.O.SETT.TK(P)	32~42	50.1	44.7	-104.00	22.65	3
MAIN L.O.SUMP(S.B.)	32~38	33.4	29.8	-107.00	11.97	1
MAIN L.O.SETT.TK(S)	32~42	50.1	44.7	-104.00	22.65	3
D/G L.O.STOR.TK(P)	32~38	9.1	7.5	-109.43	22.65	5
D/G L.O.SETT.TK(P)	34~38	9.1	7.5	-109.43	22.65	5
T/C L.O.SETT.TK(P)	22~34	48.1	42.9	-107.00	22.65	112
MAIN L.O.SUMP TK(C)	22~37	15.1	13.5	-107.00	11.97	1
SUB. TOTAL		248.3	220.5			

MISCELLANEOUS TANKS

COMPARTMENT	LOCATION (FR.NO.)	CAPACITIES VOLUME 100% (M³)	CAPACITIES VOLUME 100% (M³)	CEN.OF GRAVITY L.C.G (M)	CEN.OF GRAVITY V.C.G (M)	MAX F.S.MOM. (M⁴)
BILGE WELLING TK(C)	13~20	15.4	13.8	-113.45	1.02	164
H.F.O.OVERF.TK(P)	42~55	54.4	54.4	-90.00	1.00	423
D.O.SETT.TK(P)	6~15	51.0	51.0	-124.99	3.69	8
SLUDGE TK(P)	50~69	51.0	51.0	-113.79	1.00	65
SLUDGE TK(C)	21~23	4.1	4.1	-118.80	2.80	4
F.O.DRAIN TK(S)	56~58	5.0	5.0	-100.00	22.65	0
L.O.SLUDGE TK(S)	58~60	5.0	5.0	-100.00	22.65	0
SUB. TOTAL		235.9	235.3			

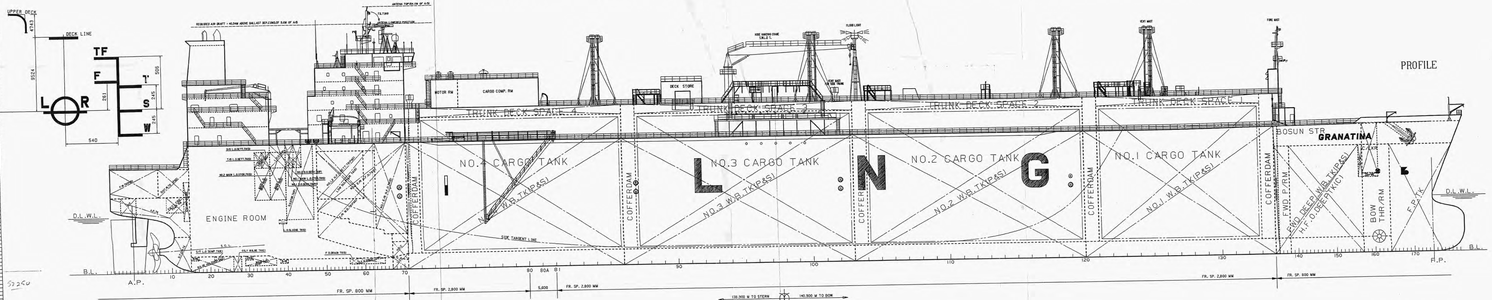
OTHERS

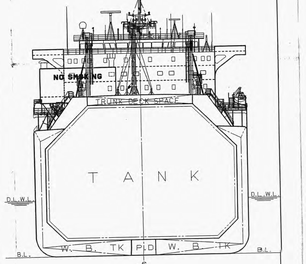
COMPARTMENT	LOCATION (FR.NO.)	CAPACITIES VOLUME 100% (M³)	CAPACITIES VOLUME 100% (M³)	CEN.OF GRAVITY L.C.G (M)	CEN.OF GRAVITY V.C.G (M)	MAX F.S.MOM. (M⁴)
NO.1 CARGO(Per BHD)(S)	121~133	1463.9	1463.9	119.65	16.15	
NO.1 CARGO(Aft BHD)(S)	104~105	1024.2	1024.2	-60.00	16.30	
NO.2 CARGO(Per BHD)(S)	104~105	1024.2	1024.2	-61.00	16.30	
NO.2 CARGO(Aft BHD)(S)	92~103	1029.9	1029.9	-40.00	16.30	
NO.3 CARGO(Per BHD)(S)	121~133	1463.9	1463.9	79.41	16.13	
NO.3 CARGO(Aft BHD)(S)	104~105	1024.2	1024.2	-20.00	16.30	
NO.3 CARGO(Aft BHD)(S)	92~103	1029.9	1029.9	-20.00	16.30	
NO.4 CARGO(Per BHD)(S)	121~133	1463.9	1463.9	39.41	16.13	
NO.4 CARGO(Per BHD)(S)	120~124	2481.9	2481.9	39.00	15.74	
NO.3 COFFERDAM	100~121	2534.3	2534.3	63.80	17.24	
NO.3 COFFERDAM	100~104	2534.3	2534.3	63.80	17.24	
NO.4 COFFERDAM	86~87	2534.3	2534.3	-31.40	17.24	
NO.4 COFFERDAM	70~75	2534.3	2534.3	-31.40	17.24	
NO.1 TRUNK DECK SPACE	141~153	709.7	709.7	77.00	31.98	
NO.2 TRUNK DECK SPACE	104~105	1744.2	1744.2	42.00	31.98	
NO.3 TRUNK DECK SPACE	87~103	1744.2	1744.2	-1.00	31.98	
NO.4 TRUNK DECK SPACE	70~86	1635.1	1635.1	-33.93	31.98	
SUB. TOTAL		32316.4	32316.4			

DEADWEIGHT SCALE

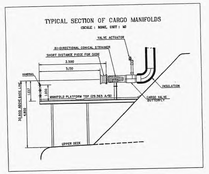
	INTERNATIONAL	SUEZ CANAL
GROSS TONNAGE	94934	95443.07
NET TONNAGE	28480	80527.06

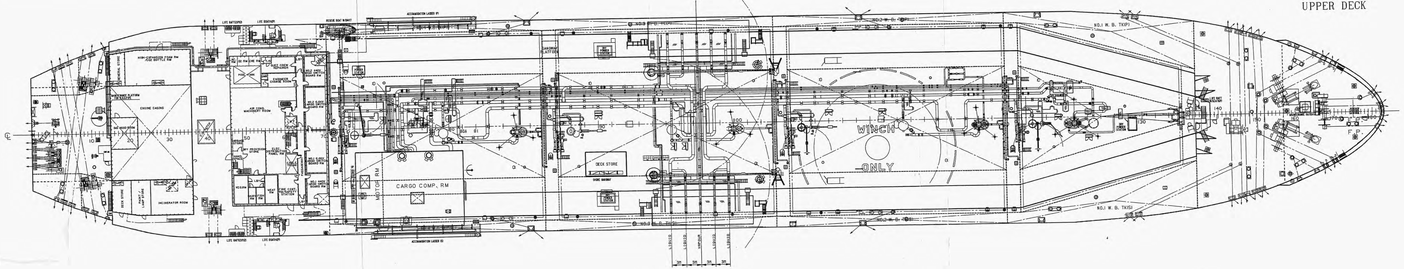
STEM	FREEBOARD (M)	DRAFT(EXT.) (M)	DISPL.ACCIDENT (TONNES)	DEADWEIGHT (TONNES)
TROPICAL FRESH	9.018	12.278	107,448.4	73,242.5
FRESH	9.253	12.051	105,002.9	74,817.0
TROPICAL	9.279	12.015	107,488.1	77,380.2
SUMMER	9.524	11.770	104,999.5	74,895.6
WINTER	9.769	11.525	102,552.8	72,448.9





MIDSHIP SECTION




UPPER DECK
CARGO COMP. RM
WINCH
ONLY
DECK STORE
MOORING WINCH
CHAIN CABLE
ACCOMMODATION LADDER (P)
ACCOMMODATION LADDER (S)
LIFE RAFT(P)
LIFE RAFT(S)
LIFE BUOY(P)
LIFE BUOY(S)
SAFETY VALVE
VENT MAST
FIRE MAST
DECK STORE
DECK WASH MONITOR
DECK WASH MONITOR
DECK WASH MONITOR
DECK WASH MONITOR
SAFETY VALVE
SAFETY VALVE
SAFETY VALVE