

VESSEL SPECIFICATIONS

(All Details about and without guarantee)

VESSEL

Alam Gula

EX-NAME	Orchis Island
REGISTRY	Malaysia
OFFICIAL NO	327259
CALLSIGN	9MCF3
IMMARSAT C GMDSS	453322910
INMARSAT TEL	N.A.
INMARSAT FAX	N.A.
INMARSAT TLX	453312210

OWNERS	Alam Gula Sdn Bhd
MANAGERS	Pacific Ship Managers Sdn Bhd
CLASS	Nippon Kaiji Kyokai
CLASS ID NUMBER	851854
CLASS NOTATION	NS* MNS* Bulk Carrier

TONNAGE

GROSS

NETT

REGISTERED	13,815.00	8,010.00
SUEZ	13,995.20	12,526.74
PANAMA	14,834.06	11,199.47
YEAR BUILT	1985	
KEEL LAID	18-August-1984	
LAUNCHED	05-March-1985	
BUILDER	Kurushima Dockyard Co. Ltd	
HULL NUMBER	2372	

VESSEL TYPE	Dry Bulk Carrier
ICE CLASSED	No
NUMBER OF DECK	1
SERVICE SPEED	13 knots
ECONOMICAL SPEED	12 knots
FORECASTLE	Raised
POOP DECK	Raised
NUMBER OF DECK HOUSES	4
BOW TRUSTER	No
NUMBER OF SCREWS	1
TYPE OF PROPELLER	Fixed Pitch, 4 Blades
SPARE PROPELLER	No
SPARE PROPELLER SHAFT	No

L.O.A.	155.82 M
L.B.P.	148.00 M
BREADTH	24.60 M
DEPTH	13.60 M
DRAFT	9.985 M
DEADWEIGHT	23,418 MT

DISPLACEMENT	28,776 MT
TPC (SUMMER DRAFT)	32.46 M
F.W. ALLWNCE @ SUMMER DRAFT	0.221 M
CONSTANT	200 MT
LIGHTWEIGHT	5,358 MT

<u>DISPLACEMENT AND DRAFT DWT (MT)</u>	<u>DRAFT (M)</u>	<u>DISPLM'NT (MT)</u>
TROPICAL FRESHWATER 24,081	10.414	29,439
FRESHWATER 23,418	10.206	28,776
TROPICAL SEAWATER 24,095	10.193	29,453
SUMMER SEAWATER 23,418	9.985	28,776
WINTER SEAWATER 22,744	9.777	28,102

CARGO HOLDS

NUMBER OF HOLDS	4
NUMBER OF HATCHES	4

HOLD S	FR.NO	HATCH SIZE(MxM)	GRAIN(M3)	BALE(M3)
1	142 - 178	11.2 x 15.2	5,969.93	5,769.07
2	105 - 142	12.8 x 19.2	7,932.66	7,724.49
3	68 - 105	12.8 x 19.2	7,933.57	7,724.59
4	32 - 68	12.8 x 19.2	7,170.02	7,065.99
5	N.A.	N.A.	N.A.	N.A.
6	N.A.	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.	N.A.

TWEEN HOLDS (IF APPLICABLE)

HOLD S	FR.NO	HATCH SIZE(MxM)	GRAIN(M3)	BALE(M3)
1	N.A.	N.A.	N.A.	N.A.
2	N.A.	N.A.	N.A.	N.A.

CARGO HOLD TANKTOP DIMENSIONS EXCLUDE CORRUGATIONS AND SLOPES

HOLD	FORWARD (M)	AFT (M)	LENGTH (M)
1	2.80	16.80	28.80
2	16.80	16.80	29.60
3	16.80	16.80	29.60
4	16.80	6.80	28.80
5	N.A.	N.A.	N.A.
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

FEATURES OF CARGO HOLDS

HOLDS VENTILATION	Forced
IF FORCED,NBR OF AIR CHANGE/MIN	4 sets, No.1 & 4 at 350 m3/min,

	No.2 & 3 at 450 m3/min
BALLAST CARGO HOLD	N.A.
WHETHER OTHER HOLDS ARE TO BE BALLASTED TO REDUCE AIR DRAFT IN PORT	No
IF SO, STATE THE HOLD/S	N.A.
IF SO, STATE BALLAST QUANTITIES EACH HOLD	N.A.
UPPER WING TANKS IN ALL HOLDS	Yes
UPPER WING TANKS CONSTRUCTION	Slopping
LOWER HOPPER TANKS IN ALL HOLDS	Yes
UPPER STOOL IN WAY OF BULKHEADS	No
LOWER STOOL IN WAY OF BULKHEAD	No
BLEEDING UPPER WING TANKS	No
ORE STRENGTHENED	No
ALTERNATE HOLD LOADING	No
HOLDS USED FOR ALTERNATE LOADING	N.A.
ALTERNATE LOADING MAX CARGO	N.A. MT
CARGO BATTENS FITTED	No
BATTENS PERMANENT TYPE	N.A.
IF NO, ANY PROVISIONS MADE FOR BATTENS	N.A.
IF SO, FITTINGS AND BATTENS ONBOARD?	No
IN WHICH HOLDS ?	N.A.
LOCATION OF BATTEN - SHIPSIDE P/S	N.A.
LOCATION OF BATTEN - BULKHEAD F/A	N.A.
LOCATION OF BATTEN - TANKTOP	N.A.
AUSTRALIAN HOLD LADDERS	Yes
CO2 FITTED IN HOLDS	No
SMOKE DETECTOR FITTED IN HOLDS	No

GRAIN LOADING APPROVAL

CERTIFIED GRAIN LOADING BOOKLET ONBOARD	Yes
GRAIN LOADING BOOK COMPLY WITH CHAPTER V1 SOLAS 74	Yes
IF OTHERWISE, STATE	N.A.
CERTIFIED BY CLASS FOR ADMINISTRATION OR OTHER NATIONAL AUTHORATIES	Yes
CERTIFIED FOR UNTRIMMED ENDS	Yes

OTHER FEATURES OF CARGO HOLDS

IS VESSEL LOG FITTED	Yes
COLLAPSIBLE STANCHIONS	Yes
SOCKET FOR STANDCHIONS FOR DECK CARGO	No
MAXIMUM HEIGHT OF LOG CARGO ON DECK	7.5 M
LOOSE LOG LASHING MATERIALS ON BOARD	Yes
IS VESSEL CONTAINER FITTED?	No
CONTAINER FITTINGS PERMANENT ? - IN HOLDS	No

- ON DECKS	No
- ON HATCH COVERS	No
FULL CONTAINER SHOES, LASHINGS ETC	No
MAXIMUM PERMISSIBLE STACK LOAD	N.A
- HOLDS	N.A
- DECK	N.A
- HATCH COVERS	N.A
ANY REEFER POINTS	No
POSITION OF REEFER POINTS	No
MAX REEFER TEU ALLOWED	No

CONTAINER CAPACITY

HOLD	IN HOLDS	TWEEN DK	H-COVERS	MAIN DK
1	N.A.	N.A.	N.A.	N.A.
2	N.A.	N.A.	N.A.	N.A.
3	N.A.	N.A.	N.A.	N.A.
4	N.A.	N.A.	N.A.	N.A.
5	N.A.	N.A.	N.A.	N.A.
6	N.A.	N.A.	N.A.	N.A.

DECK STRENGTHS (MT/M²)

HOLD	TANKTOP	UPPER DECK	H-COVERS
1	13.0	3.40	1.90
2	13.0	3.40	2.60
3	13.0	3.40	2.60
4	13.0	3.40	2.60
5	N.A.	N.A.	N.A.
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

HATCH COVERS

MAIN DECK HATCH COVERS

MAKE:	MacGregor - Navir(kayaba) Ltd, Miye Japan
TYPE	Jack-knife fore-aft folding type
OPERATION SYSTEM	Hydraulic cylinders
SECURING SYSTEM	Quick acting cleats

TWEEN DECK HATCH COVERS

MAKE	N.A.
TYPE	N.A.

DISTANCES (in metres)

STERN TO FRONT OF SUPERSTRUCTURE	27.00 M
STERN TO AFT END AFTMOST HATCH	32.00 M
BOW TO FORWARD OF HATCH NO 1	20.80 M
FWD END OF HATCH NO 1 TO AFT END AFTMOST HATCH	102.20

SHIP'S RAIL TO OUTSIDE OF HATCH COAMING

HATCH	FORE (M)	MID (M)	AFT (M)
1	N.A.	5.00	N.A.
2	N.A.	5.20	N.A.
3	N.A.	5.20	N.A.
4	N.A.	5.20	N.A.
5	N.A.	N.A.	N.A.
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

THICKNESS OF HATCH COAMING

LONGITUDINAL	400 MM
TRANSVERSE	200 MM

CENTRE OF HATCH FROM BOW AND STERN

HATCH	BOW (M)	STERN (M)
1	25.00	128.00
2	52.20	100.60
3	80.60	72.00
4	110.20	42.20
5	N.A.	N.A.
6	N.A.	N.A.
7	N.A.	N.A.

HEIGHTS (in metres)

KEEL TO HIGHEST POINT	42.40 M
KEEL TO TOP OF FUNNEL	31.50 M
KEEL TO TOP OF CRANES	31.0 M
KEEL TO TOP OF FWD SAMSON POST	N.A.
KEEL TO TOP OF AFT SAMSON POST	N.A.
KEEL TO DK LEVEL AT SS RAIL, MIDSHIP	13.80 M
KEEL TO DK LEVEL AT H-COAMING, MIDSHIP	N.A. M

HEIGHT KEEL TO TOP OF HATCH COAMING AND HATCH COVERS

<u>HOLD</u>	<u>HATCH COAMING</u>	<u>HATCH CVRS</u>
1	14.80	15.40
2	14.80	15.40
3	14.80	15.40
4	14.60	15.20
5	N.A.	N.A.
6	N.A.	N.A.
7	N.A.	N.A.

HEIGHT FROM WATERLINE TO TOP OF HATCH COAMINGS

HOLD NO	LIGHT SHIP	FULLY BALLAST	LOADED
1	N.A.	N.A.	6.00
2	N.A.	N.A.	5.80

3	N.A.	N.A.	5.60
4	N.A.	N.A.	5.40
5	N.A.	N.A.	N.A.
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

CARGO GEAR

NO OF CRANE:	5
MANUFACTURER:	Fukushima Ltd
TYPE	Electro-hydraulic

CRANE NO	S.W.L. (LT)	LOCATION
1	30.48	Fore of hatch no. 1
2	30.48	Fore of hatch no. 2
3	30.48	Fore of hatch no. 3
4	30.48	Fore of hatch no. 4
5	N.A.	N.A.
6	N.A.	N.A.

MAXIMUM CRANE OUTREACH FROM SHIPSIDE WITH FULL LOAD/ANGLE FROM HORIZONTAL WHEN CRANE FULLY EXTENDED IN WORKING POSITION

CRANE	DISTANCE (M)	ANGLE
1	7.70	25 DEG
2	11.70	25 DEG
3	11.70	25 DEG
4	11.70	25 DEG
5	N.A.	DEG
6	N.A.	DEG

SPEEDS OF CRANES

HOISTING SPEED	20 M/MIN
SLEWING	No.1 - 0.8; No.2,3,4 - 0.75 RPM
LUFFING	No.1 - 52; No.2,3,4 - 55 SECS

CAN 2 CRANES USE AN EQUALISING BEAM	Yes
ELECTRIC CONNECTIONS FOR HYDRAULIC GRABS	No

IS UNION PURCHASE POSSIBLE?	No
CAPACITY. OF UNION PURCHASE	N.A.
CAN 2 CARINES WORK IN TANDEM?	No

BALLAST INFORMATION

TOTAL BALLAST CAPACITY INCLUDING BALLAST HOLD NO 3	7,226.70 M ³
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DRAFT FULLY BALLASTED	FORE (M)	AFT(M)	MEAN
GTR 90% IFO/DO CAPACITY	3.97	6.77	5.37

GTR 20%IFO/DO CAPACITY	4.03	5.68	4.86
MAXIMUM DE-BALLASTING CAPACITY	250 M ³ /H		
BALLAST PUMP CAPACITY	210 M ³ /H		

BUNKER INFORMATION

100% IFO CAPACITY	1,148.83 MT
100% MDO CAPACITY	151.82 MT

FUEL OIL TANK	FRAME POS	IFO 100% (M ³)
NO 3 DB CENTRE	68 - 105	476.42
NO 4 DB CENTRE	32 - 59	642.80
NO 5 DB CENTRE	26 - 30	16.01
NO DB CENTRE	N.A.	N.A.
NO DB CENTRE	N.A.	N.A.
DEEP FO TANK (P)	N.A.	N.A.
DEEP FO TANK (S)	N.A.	N.A.
HFO SETT TANK	21 - 23	8.0
HFO SERV TANK	19 - 21	5.60
HFO OVERFLOW TANK	N.A.	N.A.

DIESEL OIL TANK	FRAME POS	IFO 100% (M ³)
MDO (S) TANK	22 - 30	24.64
MDO (P) TANK	30 - 68	118.18
MDO SERV TANK	17 - 18	4.50
MDO SETT TANK	16 - 17	4.50

FRESH WATER INFORMATION

DAILY CONSUMPTION (EST)	10 MT
MAX TANK CAPACITY	348 MT
MAX DAILY WATER PRODUCTION	15 MT
CURRENT WATER PRODUCTION	14 MT

FRESHWATER GENERATOR

MAKER	Vider Co. Ltd
MODEL	VFW-15A
RATED CAPACITY	15 MT/DAY

SPEED AND CONSUMPTIONS

SPEED (KTS)	CONS (LOADED)	RPM	CONS (BALASTED)	RPM
10	N.A.	N.A.	N.A.	N.A.
10.5	12.0	84	11.0	82
11	13.0	90	12.5	88
11.5	13.8	93	13.0	91
12	15.0	99	14.0	98
12.5	16.0	101	15.0	100

13	17.0	105	16.0	104
13.5	17.5	109	16.5	108
14	18.2	113	17.2	111
14.5	N.A.	N.A.	N.A.	N.A.
15	N.A.	N.A.	N.A.	N.A.
15.5	N.A.	N.A.	N.A.	N.A.
16	N.A.	N.A.	N.A.	N.A.
16.5	N.A.	N.A.	N.A.	N.A.
17	N.A.	N.A.	N.A.	N.A.
17.5	N.A.	N.A.	N.A.	N.A.
18	N.A.	N.A.	N.A.	N.A.

CONSUMPTION AT SEA

DIESEL OIL CONSUMPTION 1.1 MT
 FUEL OIL CONSUMPTION 0 MT
 (BOILER + GENERATOR)

CONSUMPTION IN PORT

FUEL OIL 0.5 MT/DAY
 DIESEL OIL, IDLE 0.8 MT/DAY
 DIESEL OIL, WORKING 8 HRS 1.4 MT/DAY
 DIESEL OIL, WORKING 16 HRS 1.8 MT/DAY
 DIESEL OIL, WORKING 24 HRS 2.2 MT/DAY

TYPE OF FUEL OIL Actual RME-25, ISO 8217(E), 120 CST
 TYPE OF DIESEL OIL Estimate Dmb Specs

MAIN ENGINE

MAKER Akasaka-Mitsubishi Diesel Ltd
 MODEL 6UEC-52L
 BORE 520 MM
 STROKE 1,600 MM
 MCR 6,950 ps x 120 rpm
 NOR 5,910 ps x 114 rpm

GENERATORS

NUMBER OF GENERATORS 2
 MAKER Yanmar Diesel Co. Ltd
 MODEL S185L-ST

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