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THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

2855.

SURVEY FOR FREEBOARD

"GIANG SENG"

STEAMER, TANKER, SALES, Etc. M.V. "HWA + HSIANG" WITH TIMBER DECK CARGO
WITHOUT

Nationality British Builders' Name and No. of Ship Unknown Japanese

Port of Registry Singapore

Official Number 179939. Owners Overseas Shipping & Trading Co., Ltd

Gross Tonnage 524.57 533.08. HEAP ENG MOH STEAMSHIP CO LTD SINGAPORE

Date of Build 1941 APPROX. Port and Date of survey Sydney N.S.W. to 5/9/46

Particulars of Classification BS. (COASTING SERVICE). Name of Surveyor D.W. Gibson

Names of Sister Ships -----

Type of Superstructures Forecastle head and poop with bridge on poop.

Trade of Ship Intended trade - China coast.

Service Endorsement if any ~~AND ONLY SO LONG AS THE SHIP IS EMPLOYED IN CHINESE COASTING SERVICE.~~

AND ONLY SO LONG AS THE SHIP IS ENGAGED IN SERVICE FROM SINGAPORE TO HONGKONG AND EAST IN THE INDIAN ARCHIPELAGO.

Line	Material	Height	Corresponding Freeboard
SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (..... wood <input checked="" type="checkbox"/> steel)	steel		<u>1'-3 1/2"</u>
TROPICAL FRESH WATER LINE above centre of disc		<u>6"</u>	<u>0' 9 1/2"</u>
FRESH WATER LINE " " "		<u>3"</u>	<u>1'-0 1/2"</u>
TROPICAL LINE " " "		<u>3"</u>	<u>1'-0 1/2"</u>
WINTER LINE below " "		<u>3"</u>	<u>1'-6 1/2"</u>
WINTER NORTH ATLANTIC LINE " " "		<u>NOT ASSIGNED</u>	<u>NOT ASSIGNED</u>

NOT ASSIGNED. See cable. 10/11/47.

Line	Material	Height	Corresponding Freeboard
SUMMER TIMBER FREEBOARD recommended amidships from top of deck line			
TROPICAL FRESH WATER Timber line above L.S.			
FRESH WATER " " " "			
TROPICAL " " " "			
WINTER " " below " "			
WINTER NORTH ATLANTIC " " " "			

Number of years recommended for load line certificate One year Load Line Certificate.

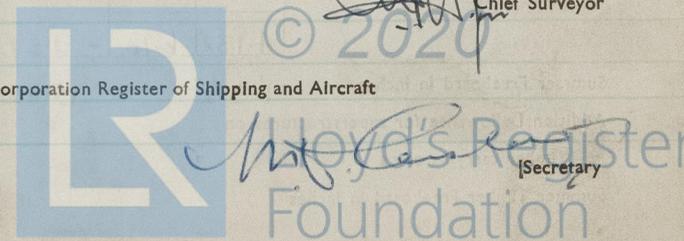
The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

[Signature] Chief Surveyor

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the 1st October, 1947

[Signature] Secretary



008344 - 008353 - 0053 1/8

COMPUTATION OF FREEBOARD

Length on summer load line 164' 2" Moulded Breadth 27' 8 5/8" Moulded Depth 13' 6" Depth of Keel 8 1/2"

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth Tons

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times 85} = .72$

Displacement and tons per inch immersion in salt water at summer load line

Moulded depth 13.500 Deduction for Fresh Water $\frac{44}{49} \times 4 = 3'$ inches

Stringer Plate 31 .026 Round of Beam Correction

Sheathing on exposed deck T $\frac{(L-S)}{L}$ - Ships Round of Beam 0.00 inches

Rise of floor (in sailers) Standard Round of Beam Bx12 50 6.65

Depth for Freeboard (D) 13.526 Difference 6.65

Table Depth 1/5 10.944 Restricted to

Depth Correction 1/30 2.582 3.260 Correction $\frac{\text{Difference}}{4} \times (1 - \frac{E}{L}) = 1.66 \times .5249 = .870$

If restricted by superstructures

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft	Mean Actual sheer forward
A.P.	24.0	26.42	29.0	1	24.0	More than 1.	More than 1.
1/2 L from A.P.	12.0	11.76	12.0	4	48.0		
1/4 L from A.P.	3.0	2.91	3.0	2	6.0		
Amidships	-	-	-	4	-		
1/4 L from F.P.	6.0	5.82	6	2	12.0		
1/2 L "	24.0	23.51	24	4	96.0		
F.P.	50.0	51.83	50.	1	50.0		
				18	241.		
Effective Mean Sheer					13.388		
Standard " " .05L+5					13.208		
Difference					-180		

TABULAR FREEBOARD corrected for flush deck if required = 17.48.

Correction for co-efficient = $\frac{140}{136} = 17.99$

Depth correction 3.26

Deduction for superstructures 6.70

Sheer correction -

Round of Beam correction .87

Correction for thickness of deck amidships

Other corrections, scantlings, etc. 4.13

Summer Freeboard in Inches 1-3 1/2" = 15.42

Additional allowance for superstructures on Timber carrying ships

Summer Timber Freeboard in Inches

DRAUGHTS AND SEASONAL CORRECTIONS

Depth correction	Deduction for superstructures	Sheer correction	Round of Beam correction	Correction for thickness of deck amidships	Other corrections, scantlings, etc.	Summer Freeboard in Inches	Additional allowance for superstructures on Timber carrying ships	Summer Timber Freeboard in Inches
3.26	6.70	-	.87		4.13	15.42		

Deduction for Tropical and addition for Winter freeboard d/4 = 3" ins.

Addition for Winter North Atlantic (if required)

Deduction for Tropical Timber Freeboard $\frac{d}{d}$

Addition for Winter " " $\frac{d}{3}$

N.A. Timber Freeboard (if required)

Form LL 4.D.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT SURVEY FOR FREEBOARD CONDITIONS OF ASSIGNMENT

SHIPS NAME "HWA - HSIANG" OFFICIAL NUMBER

Nationality and Port of Registry - British - Singapore.

PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	3/8" 5"x2 1/2" x 3"	2" 6"	Riveted brackets top and bottom	Doors 2 5'1" x 2'4"	16"	7'	
R.Q.D. "							
Bridge Aft Bulkhead							
" Forward "							
Forecastle Bulkhead	1/4" section of mast inside bulkhead			Doors 2 4'5" x 2'0"	16"	7'	
Trunk, Aft	section of vent on inside bulkhead						
" Forward							
Exposed Machinery Casings on Freeboard or R.Q. Decks							
Exposed Machinery Casings on superstructure decks							
Machinery Casings within Superstructures fitted with Cl. 1 closing appliances within Poop	1/4" 5 1/2" 3" x 2 1/2" x 3"			Brackets 1 steel to beams door 1/2"	12"	7'	
Bottom nil 4'8" x 1'8"							

PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead	2 steel doors 3/8" plating. Yes.
R.Q.D. "	
Bridge Aft Bulkhead	
" Forward "	
Forecastle Bulkhead	2 steel doors 1/2" plating capable of being manipulated from both sides.
Exposed Machinery Casings on Freeboard or R.Q. decks	Machinery casing inside poop with one steel door capable of being manipulated from both sides.
Exposed Machinery Casings on superstructure decks	
Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances	One steel door to engine room capable of being manipulated from both sides.
Deck houses on Flush Deck ships	

PARTICULARS OF FREEING ARRANGEMENTS

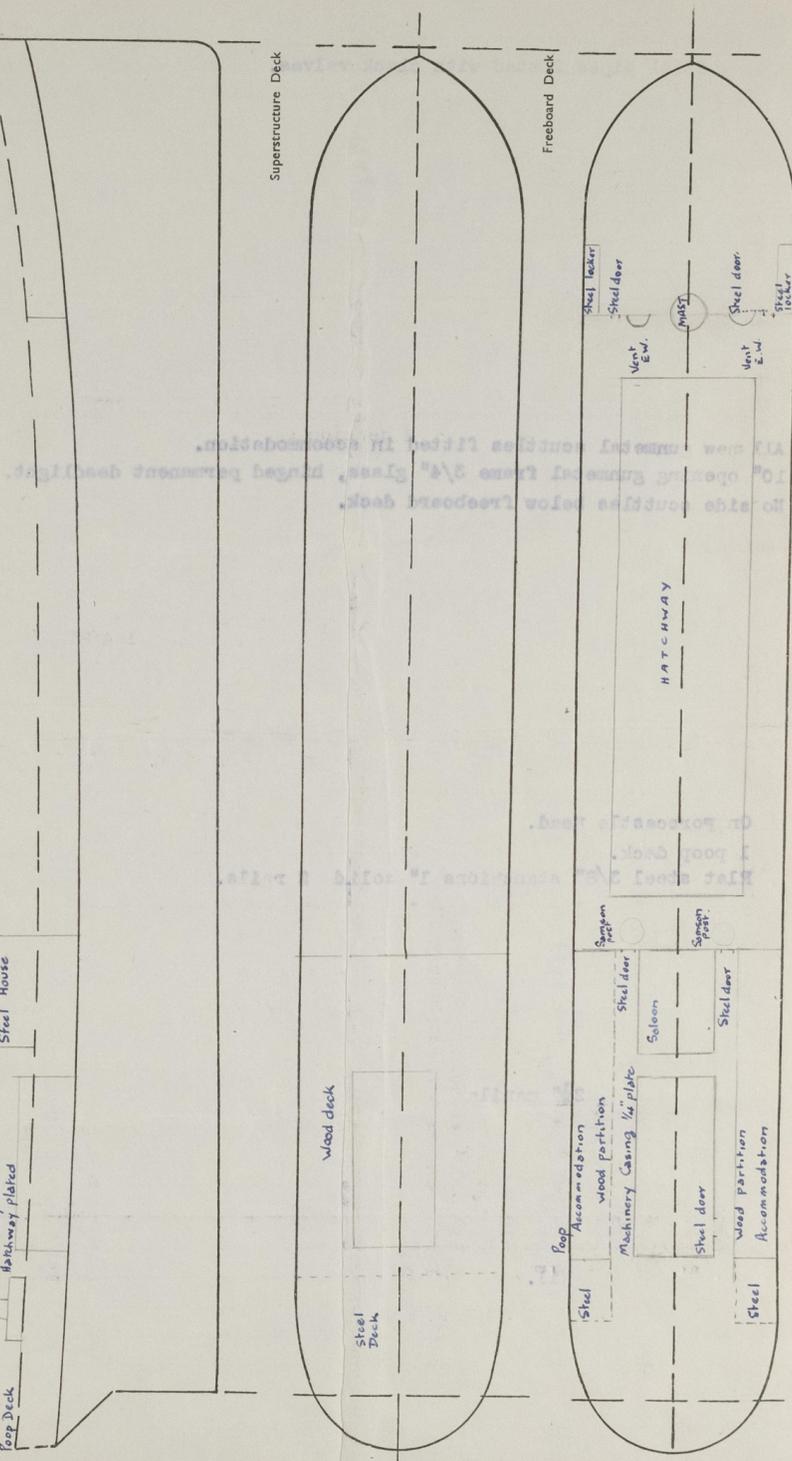
Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well				
Forward Well	87'	3'3" 10 2'9" x 9"	20 sq.ft.	

State fore and aft position and height above deck to bottom of port, for each port

State whether freeing ports are fitted with shutters, bars or rails, and give particulars

Give particulars of freeing port area, etc., on superstructure decks

Position and dimensions of superstructure decks, position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling ports, ventilators to spaces below freeboard deck and fully enclosed superstructures, companionways, etc., which affect the freeboard of the ship.



PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	Dimensions of Hatchway	Height steel deck above	Thickness sides	Stiffeners	Brackets or Stays	Number Spacing	Scantling and Sketch	Bearing Surface and Position of Carriers or sockets	Number	Unsupported lengths	Scantling and Sketch	Bearing Surface and Position of Carriers or sockets	Number	Unsupported lengths	Scantling and Sketch	Bearing Surface and Position of Carriers or sockets	Number	Unsupported lengths	Scantling and Sketch	Bearing Surface and Position of Carriers or sockets
One	60'6" x 14'0"	3'0"	3/8"	7" x 2" bulb 3/8"	8 flanged brackets each side size 2' x 8" x 3/8"	12	5/16" - 1 1/2" at centre 6" at ends Double angles top and bottom 3" x 3" x 1/2"	3" x 3" x 1/2"	Nil	3" 3/8"	Nil	3" 3/8"	Nil	3" 3/8"	Nil	3" 3/8"	Nil	3" 3/8"	Nil	3" 3/8"

Are hatchways in good condition and in accordance with rule requirements? Yes. Yes.

Are battens and wedges efficient and in good condition? Yes. Yes.

Are wood fore and afters steel shod at all bearing surfaces? Yes. Yes.

008344-008352-0053 2/8

0053 3/8

0053 4/8

0053 5/8

Give full particulars of the following:—

Fiddley, Funnel and Vent Coamings, Engine Room skylight and other openings in Machinery Casing tops and their means of closing (state height of coamings, type of fiddley covers, and if these are permanently attached in their proper positions)

Ventilators to hold - 2 after Samson posts - square cowls at head.
2 ventilators - height of coaming 9'

Height of funnel above engine casing 12 ft. dia. 5 ft. Engine room casing extends above poop deck 15" and length 17'6"

Galley skylight on starboard side poop steel 5'6" x 2'0" Height 17
Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment) Steel skylight to engine room erected on machinery casing 8'3" x 5'0". Height above casing 1'9". Steel covers with scuttles.

Nil

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides) One companionway in poop. Steel, with steel hinged door capable of being secured from both sides. Height of sill 2'6"

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks to spaces below freeboard decks and fully enclosed superstructures enclosed by Class 1 appliances (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

Ventilators to after part of hold - 2 samson post approx. 25' high.
" " fore " " " 2. Height of coaming 9'.
Pitch of rivets at deck 2 1/2" Wood caps and canvas covers.

One ventilator in forecastle head 5'0" pitch of rivets 2 1/2".

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

One air pipe on forecastle head 2'6" wood cap and canvas cover.

3 air pipes to midship fuel tank on poop. Mid. 7' 2 wing 2'6".

Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

Steel pipes fitted with clack valves. /

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

All new gunmetal scuttles fitted in accommodation.
10" opening gunmetal frame 3/4" glass, hinged permanent deadlight.
No side scuttles below freeboard deck. /

Vertical distance of sill of lowest side scuttle below top of freeboard deck at side amidships

Guard Rails on freeboard and superstructure decks (state type and where fitted)

On Forecastle Head.
1 poop deck.
Flat steel 3/8" stanchions 1" solid 2 rails.

Gangways and Lifelines

2 1/2" manila

Gangway, Cargo and Coaling Ports in sides of ship

Nil.

SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructure and Machinery Casings comply with rules?

Is provision made for protection of steering gear?

Is emergency steering gear provided?

Are efficient sockets and eyes for lashings provided and properly spaced?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Particulars of any Special Features in the construction of the Ship

Endorsement at first survey and at surveys for Renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown in the form and are in good condition



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0053 6/19

0053 2/8

0053 3/8