

# Lloyd's Register of Shipping.

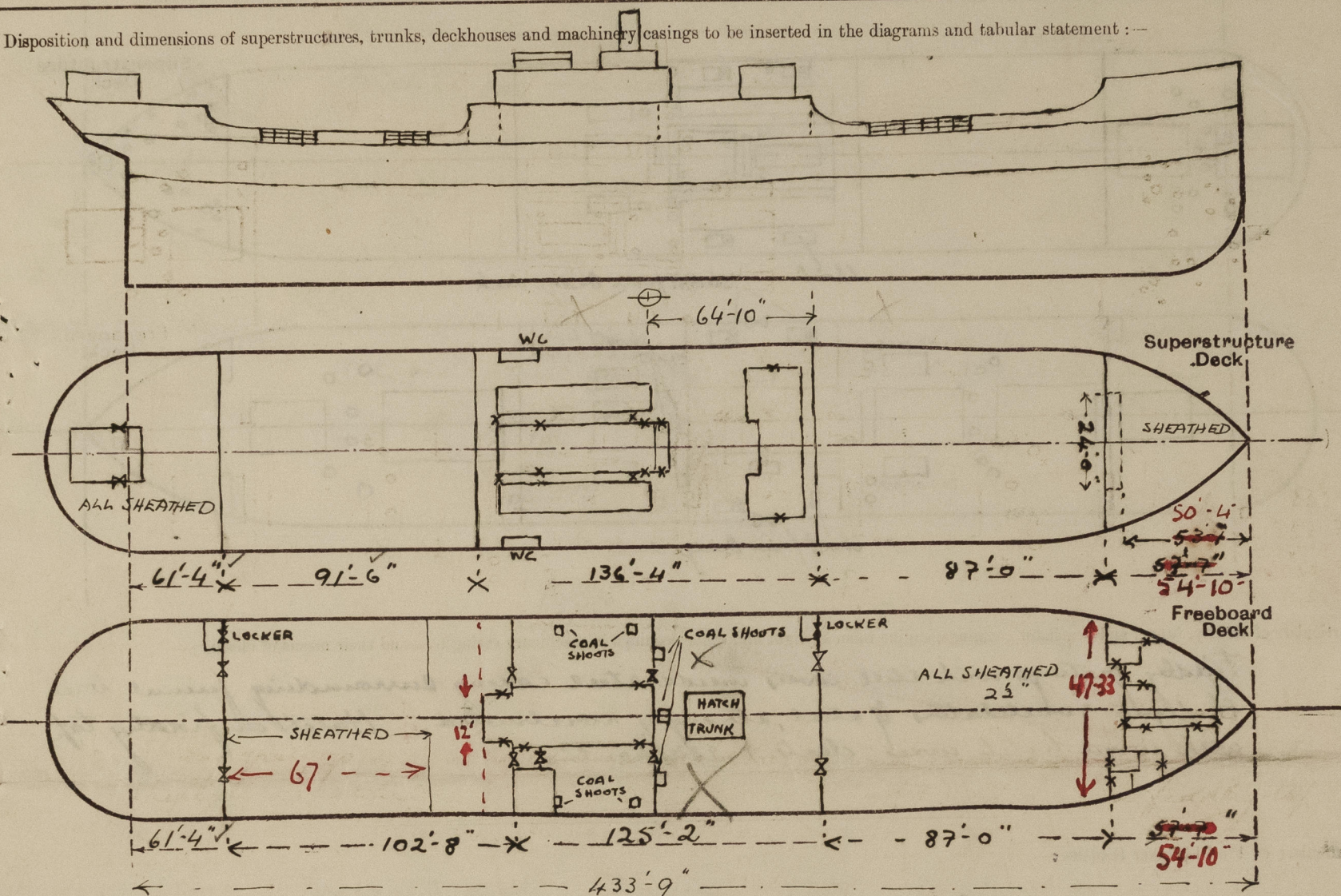
## SURVEYS FOR FREEBOARD.

(CONDITIONS OF ASSIGNMENT.)

125 FEB 1942

Ship's Name *EMPIRE RAJA* ~~WILDENFELS~~Port of Survey *Bombay*Official Number *not assigned*Surveyor's Signature *Wm Rundle*Nationality and Port of Registry *British, London*Date of Survey *14/10/41*

Disposition and dimensions of superstructures, trunks, deckhouses and machinery casings to be inserted in the diagrams and tabular statement:—



Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ...	.44"	.38"	B.A. 8' x 3 1/2' x 1/2"	2'-4"	Brackets T & B	4'-6" x 3'-0"	1'-2"	8'-0"
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead ...	.38"	.38"	B.A. 5 1/2' x 2 1/4' x 3/8"	2'-8"	none	5'-7" x 4'-0"	9"	8'-11"
Bridge, Forward Bulkhead ...	.50"	.50"	BA 10' x 3 1/2' x 1/2"	2'-5"	Brackets T & B	5'-1" x 3'-3"	1'-6"	8'-11"
Forecastle Bulkhead ...	.50"	.26"	L 3 1/2' x 3' x 3/8"	1'-10"	none	5'-3" x 2'-1"	1'-2"	7'-3"
Trunk, Aft ...								
Trunk, Forward ...								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	.38"	.38"	L 3 1/2' x 2 1/4' x 3/8"	2'-2"	none	5'-4" x 2'-10"	1'-2"	8'-8 1/2"
Exposed Machinery Casings on Superstructure Decks ...	.38"	.38"	L 3 1/2' x 3' x 3/8"	2'-2"	none	4'-10" x 2'-0"	1'-2"	8'-0"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	.38"	.38"	L 3 1/2' x 2 1/2' x 3/8"	2'-2"	none	5'-4" x 2'-0"	9"	7'-6"
Deckhouses on Flush Deck Ships ...								

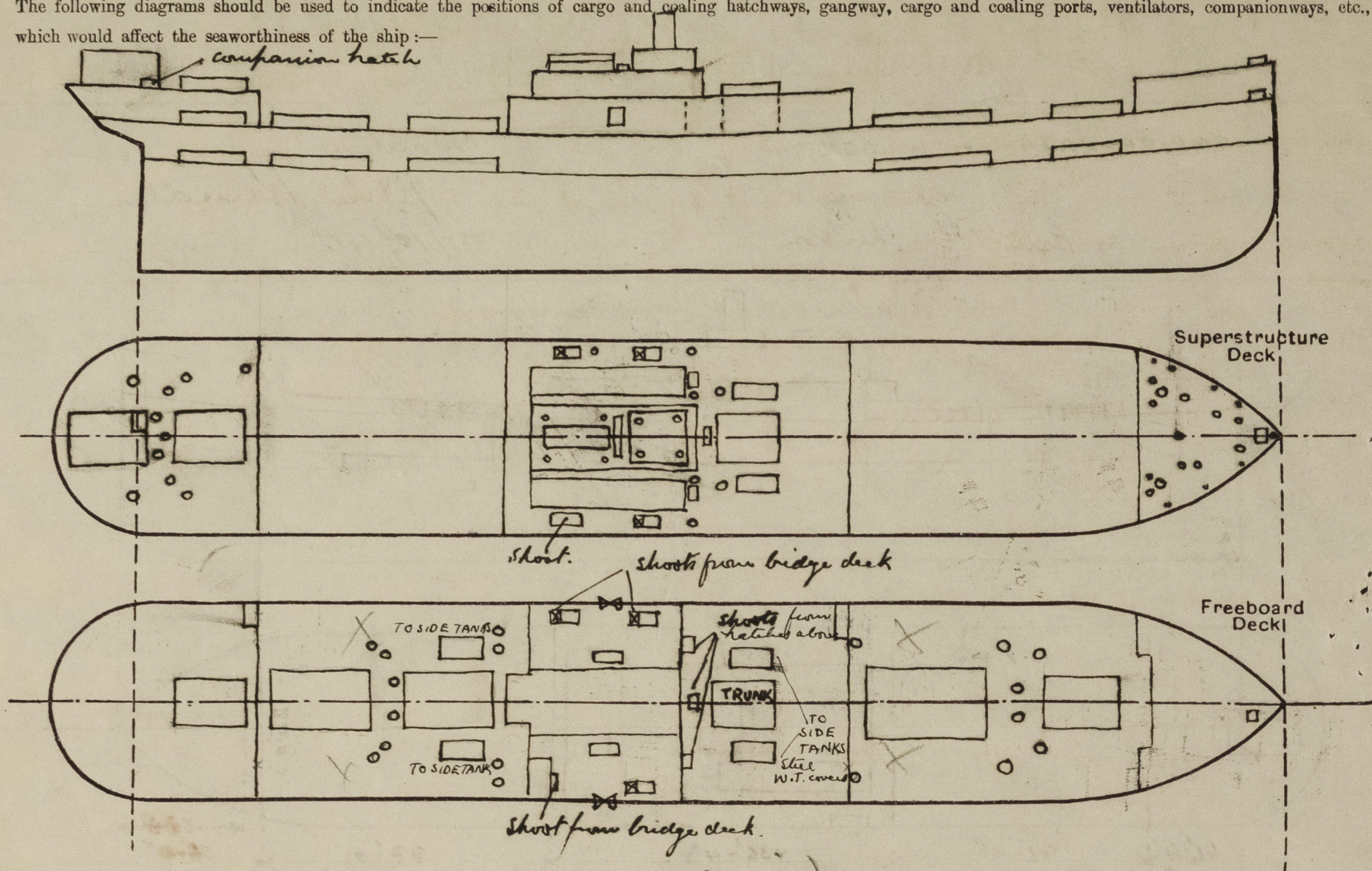
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ...	Steel watertight doors, operated from both sides. ✓
Raised Quarter Deck Bulkhead ...	
Bridge, After Bulkhead ...	Storm boards full height in wetted channels. ✓
Bridge, Forward Bulkhead ...	Steel watertight with wedge handles operated from outside. ✓
Forecastle Bulkhead ...	All of heavy wood operated both sides, and are steel down to galley. ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	Steel watertight doors operated both sides. ✓
Exposed Machinery Casings on Superstructure Decks ...	Steel watertight doors operated from both sides. ✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	Steel watertight doors operated from both sides. ✓
Deckhouses on Flush Deck Ships ...	



# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

The following diagrams should be used to indicate the positions of cargo and coaling hatchways, gangway, cargo and coaling ports, ventilators, companionways, etc., which would affect the seaworthiness of the ship:—



Particulars of fiddle, funnel and ventilator coamings, engine room skylight and other openings in machinery casing tops and their means of closing:—

*Fiddle gratings with steel covers inside steel casing surrounding funnel base. Skylights ventilators of steel, strongly constructed. Hatch on fiddle top with wood hatch covers, cleats & stanchions. Size 2' x 2'.*

Particulars of Flush Bunker Scuttles:—

*None.*

Particulars of Companionways:—

*One companion to poop space entered by a hatch inside hand steering gear house on poop deck. Hatch fitted with grating cover and one teak plank cleats spaced 1'-8" and coaming 1'-3" high x 1'-6" thick.*

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

Forecastle Deck	For. Well Deck	Bridge Deck	Aft. Well Deck	Poop Deck
6 @ 4" dia x 8" high x 1/4"	2 @ 1'-2" dia x 2'-0" x 5/16"	2 @ 1'-6" dia x 2'-4" x 5/16"	2 @ 1'-2" dia x 2'-3" x 5/16"	2 @ 1'-2" x 2'-0" x 5/16"
1 mushroom 6" x 6"	2 @ 1'-6" x 2'-4" x 3/8"	1 @ 1'-7" dia x 9'-6"	2 @ 1'-6" x 1'-11" x 5/16"	2 @ 1'-6" x 2'-4" x 5/16"
1 @ 8" dia x 2'-6" x 5/16"	2 @ 1'-6" x 9'-6" x 3/8"	x 3/8" supported	2 @ 1'-6" x 2'-3" x 5/16"	1 @ 1'-8" x 2'-4" x 5/16"
5 @ 9" x 1'-6" x 5/16"	2 @ 1'-6" x 9'-6" x 3/8"	2 @ 1'-10" x 9'-6" x 3/8"	2 @ 1'-1" x 11'-0" x 3/8"	2 derrick post vents 1'-6" dia
3 @ 11" x 1'-8" x 5/16"	2 @ 1'-7" dia x 19'-0"	supported	2 @ 1'-2" x 19'-0" x 3/8"	1 tunnel escape vent 1'-10" dia x 6'-0" high x 3/8" not supported with hinged door in coaming with 18" in height
2 @ 1'-2" x 2'-1" x 5/16"	x 3/8" supported	2 derrick post vents 1'-6" dia		
1 @ 1'-4" x 2'-1" x 5/16"				
2 @ hold @ 1'-8" dia x 2'-2" x 3/8"				

*all ventilators fitted with plugs and canvas covers.*

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

- 1 on forecastle deck.
- 4 each side on for. well deck.
- 2 each side on bridge deck
- 2 each side on after well deck.
- 2 on port side of poop deck.

*all air pipes 1'-6" high x 3" dia fitted with hinged flaps over open ends secured by butterfly nuts.*

EMPIRE RAJA

Particulars of Gangway Cargo and Coaling Ports:—

*One coaling port each side in bridge space bunks each being 5'-3" high x 3'-9" and fitted with hinged steel doors secured by strongbacks and bolts.*

Particulars of Scuppers and Sanitary Discharge Pipes:—

*Scuppers discharging below freeboard deck through steel pipes with storm valves.*

*Sanitary discharges below freeboard deck fitted with brass non-return valves.*

Particulars of Side Scuttles:—

*All side scuttles fitted with hinged glasses and deadlights.*

Vertical distance of Sill of lowest Side Scuttle above top of keel

*42'-2" at a position 56'-0" forward of rudder post.*

Particulars of Guard Rails:—

Forecastle deck:	3 rails	height 3'-8"	stanchions spaced 3'-8"
Forward Well deck:	3 rails	" 3'-10"	" " 3'-10"
After Well deck:	3 rails	" 3'-10"	" " 3'-0"
Poop Deck:	3 rails	" 3'-10"	" " 4'-2"

Particulars of Gangways, Lifelines, etc.:—

Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	91'-6"	3'-10"	Each side two sections of open rails each 20'-7" long the middle of the sections being 21'-6" and 24'-9" respectively from F. & A. ends			
Forward Well	87'-0"	3'-10"	Each side one section of open rails 27'-0" long the middle of section being 29'-0" from bow front			
State position of each freeing port ... (After Well:—)						
(F. and A. position and height above deck edge) (Forward Well:—)						
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—						
Additional area where sheer is less than standard.						



# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.									
Description of Hatchway		Forewell Deck		Budget Deck	Afterwell Deck		Roof Deck	Other Hatches	
Dimensions of Hatchway		1	2	3	4	5	6		
COAMINGS	Height above Deck	2'8"	2'8"	2'8"	2'8"	2'8"	2'8"	On Bridge Deck:	
	Thickness	.38"	.38"	.38"	.38"	.38"	.38"	2 @ 11'6" x 6'0" coaming 2'9" high	
	Stiffeners	BA 12 x 4 x .50	ditto	none	BA 12 x 4 x .50	BA 12 x 4 x .50	none	and .38" thick with stiffeners, no brackets	
	Brackets, Stays	none	none	none	none	none	none	with hatch beams no fore afters. Hatch covers 3" thick fitted athwartships	
HATCH BEAMS	Number	2	4	2	3	4	3	Bearing surface 3" cleats 1'11"	
	Spacing	6'0"	5'10"	5'2"	5'7"	4'11"	5'0"	also 1 @ 18'11" x 2'8"	
	Scantling and Sketch							2 @ 4'7" x 3'5" coaming 2'9"	
	Bearing Surface	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	1 @ 2'3" x 4'0" W.P. covers 3" thick cleats 1'11"	
FORE AND AFTERS	Number							On Forecastle Deck:	
	Spacing							1 Hatch 3'11" x 3'6" x 2'8" coaming	
	Unsupported Lengths							.38" thick	
	Scantling and Sketch							all above with two tarpaulins	
HATCH COVERS	Material	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	On after Well deck 2 @ 8'11" x 6'0" x	
	Thickness	3"	3"	2 1/2"	3"	3"	2 1/2"	3'4" coaming 4" thick 6 side tanks	
	How fitted	7.ra.	7.ra.	7.ra.	7.ra.	7.ra.	7.ra.	in tween deck. Fitted with strong	
	Bearing Surface	3"	3"	3"	3"	3"	3"	W.T. steel covers secured by butterfly nuts.	
Spacing of Cleats		1'11"	1'11"	1'11"	1'11"	1'11"	1'11"	In steering House on Roof Deck	
Number of Tarpaulins		3	3	3	3	3	3	1 @ 3'8" x 5'10" coaming 1'3" x .38"	
								cleats 1'8" wood gratings 2 1/2" thick	
								one tarpaulin - bottom below.	

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

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

Are tarpaulins in good condition and in accordance with rule requirements? *Yes*

Are lashings provided in accordance with rule requirements? *Yes*

Particulars of any special features:— no. 3. hatch trunked to deck below. Also small hatches on bridge deck fitted with coal chocks to tween decks as shown on sketch.

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

The fittings and appliances are in accordance with the particulars shown on this form (or as now modified) and are in good condition.

Vessel previously classed with Germanischer Lloyd and now owned by the Ministry of Shipping. A general examination has now been carried out with the vessel in drydock and all the fittings and appliances as described herewith are in good order.



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