

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

Port of Survey _____

(Type of Superstructures.)

Date of Survey 26/5/31

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

"JEHANGIR"

Bombay

1924

Name of Surveyor _____

Moulded Dimensions: Length 349.0 Breadth 47.75 Depth 25.5
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons
Coefficient of fineness for use with Tables _____

Particulars of Classification +100A1
with freeboard

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <u>25.5</u>	(a) Where D is greater than Table depth (D-Table depth) R = <u>(25.54 - 23.27) 2.685 + 6.09</u> <u>2.27</u>	Moulded Breadth (B) <u>47.75'</u> Standard Round of Beam = $\frac{B \times 12}{50} = 11.46''$ Ship's Round of Beam = <u>12.00</u> Difference = <u>54</u>
Stringer plate <u>.04</u>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Restricted to
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Correction = $\frac{\text{Diff}''}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{54}{4} (.154) = 2.07$
Depth for Freeboard (D) = <u>25.54</u>		

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>39.34</u>	<u>39.34</u>	<u>7-6</u>	-	<u>39.34</u>
" overhang... ..	<u>7.62</u>	<u>3.81</u>			<u>3.81</u>
R.Q.D. enclosed					
" overhang					
Bridge enclosed... ..	<u>204.04</u>	<u>204.04</u>	<u>7-6</u>	-	<u>204.04</u>
" overhang aft	<u>5.83</u>	<u>4.37</u>			<u>4.37</u>
" overhang forward	<u>3.20</u>	<u>1.60</u>			<u>1.60</u>
Forecastle enclosed ... <u>4/12</u>	<u>34.90</u>	<u>34.90</u>	<u>7-6</u>	-	<u>34.90</u>
" overhang	<u>14.10</u>	<u>7.05</u>			<u>7.05</u>
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	<u>309.03</u>	<u>295.11</u>			<u>295.11</u>

Standard Height of Superstructure 6.99'
" " R.Q.D. _____
Deduction for complete superstructure 38.60
Percentage covered $\frac{S}{L} = 88.56\%$
" " $\frac{S_1}{L} = 84.56\%$
" " $\frac{E}{L} = 84.56\%$
Percentage from Table, Line A.
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. 80.95
(corrected for absence of forecastle (if required))
Interpolation for bridge less than 2L (if required)
Deduction = 38.60 × .8095 = - 31.25

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<u>44.9</u>	1			<u>38.0</u>	<u>38.0</u>	1		<u>38.0</u>
$\frac{1}{4}L$ from A.P.		4			<u>15.8</u>	<u>15.8</u>	4		<u>63.2</u>
$\frac{2}{4}L$ "		2			<u>3.45</u>	<u>3.45</u>	2		<u>6.9</u>
Amidships		4			-	-	4		-
$\frac{3}{4}L$ from F.P.		2			<u>8.39</u>	<u>8.39</u>	2		<u>16.78</u>
$\frac{1}{4}L$ "		4			<u>33.57</u>	<u>33.57</u>	4		<u>134.28</u>
F.P.	<u>89.8</u>	1			<u>71.5</u>	<u>71.50</u>	1		<u>71.50</u>
Total				<u>404.1</u>					<u>330.66</u>

Mean actual sheer aft = Deficient
Mean standard sheer aft = _____
Mean actual sheer forward = Deficient
Mean standard sheer forward = _____
Length of enclosed superstructure forward of amidships = _____
" " aft of " = _____

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{73.44}{18} \left(\frac{75-44.9}{209} \right) + .84$

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Depth to Freeboard Deck = _____ Ft.	Displacement in salt water at summer load water line $\Delta =$ _____	Correction for coefficient
Summer freeboard = _____	Tons per inch immersion at summer load water line T = _____	Depth Correction <u>6.09</u>
Moulded draught (d) = _____	Deduction = $\frac{\Delta}{40T}$ inches = _____	Deduction for superstructures <u>31.25</u>
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____		Sheer correction <u>.84</u>
Addition for Winter North Atlantic Freeboard (if required) = _____		Round of Beam correction <u>.02</u>
		Correction for Thickness of Deck amidships
		Other corrections, scantlings, etc.
		<u>6.98</u> <u>31.27</u> <u>- 24.34</u>
		Summer Freeboard = _____

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard
Fresh Water Line " "	Fresh Water " "
Tropical Line " "	Tropical " "
Winter Line below " "	Winter " "
Winter North Atlantic Line " "	Winter North Atlantic " "

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	...	...	...	...	...	...	...	...	...
Dimensions of Hatchway	...	...	...	...	...	...	...	...	...
COAMINGS	Height above Deck	...	...	...	...	...	...	...	...
	Thickness	...	...	...	...	...	...	...	...
	Sides	...	...	...	...	...	...	...	...
	Ends	...	...	...	...	...	...	...	...
	Stiffeners	...	...	...	...	...	...	...	...
	Brackets, Stays	...	...	...	...	...	...	...	...
HATCH BEAMS	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
	Scantling and Sketch	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
FORE AND AFTERS	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
	Unsupported Lengths	...	...	...	...	...	...	...	...
	Scantling* and Sketch	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
HATCH COVERS	Material	...	...	...	...	...	...	...	...
	Thickness	...	...	...	...	...	...	...	...
	How fitted	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
Spacing of Cleats	...	...	...	...	...	...	...	...
Number of Tarpaulins	...	...	...	...	...	...	...	...

*Are wood fore and afters steel shod at all bearing surfaces?
 Are battens and wedges efficient and in good condition?
 Are tarpaulins in good condition and in accordance with rule requirements?
 Are lashings provided in accordance with rule requirements?

Particulars of fiddle, funnel and ventilator coamings :-

Particulars of Flush Bunker Scuttles :-

Particulars of Companionways :-

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

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

Particulars of Gangway Cargo and Coaling Ports :-

Particulars of Scuppers and Sanitary Discharge Pipes :-

Particulars of Side Scuttles :-

Particulars of Guard Rails :-

Particulars of Gangways, Lifelines, etc. :-

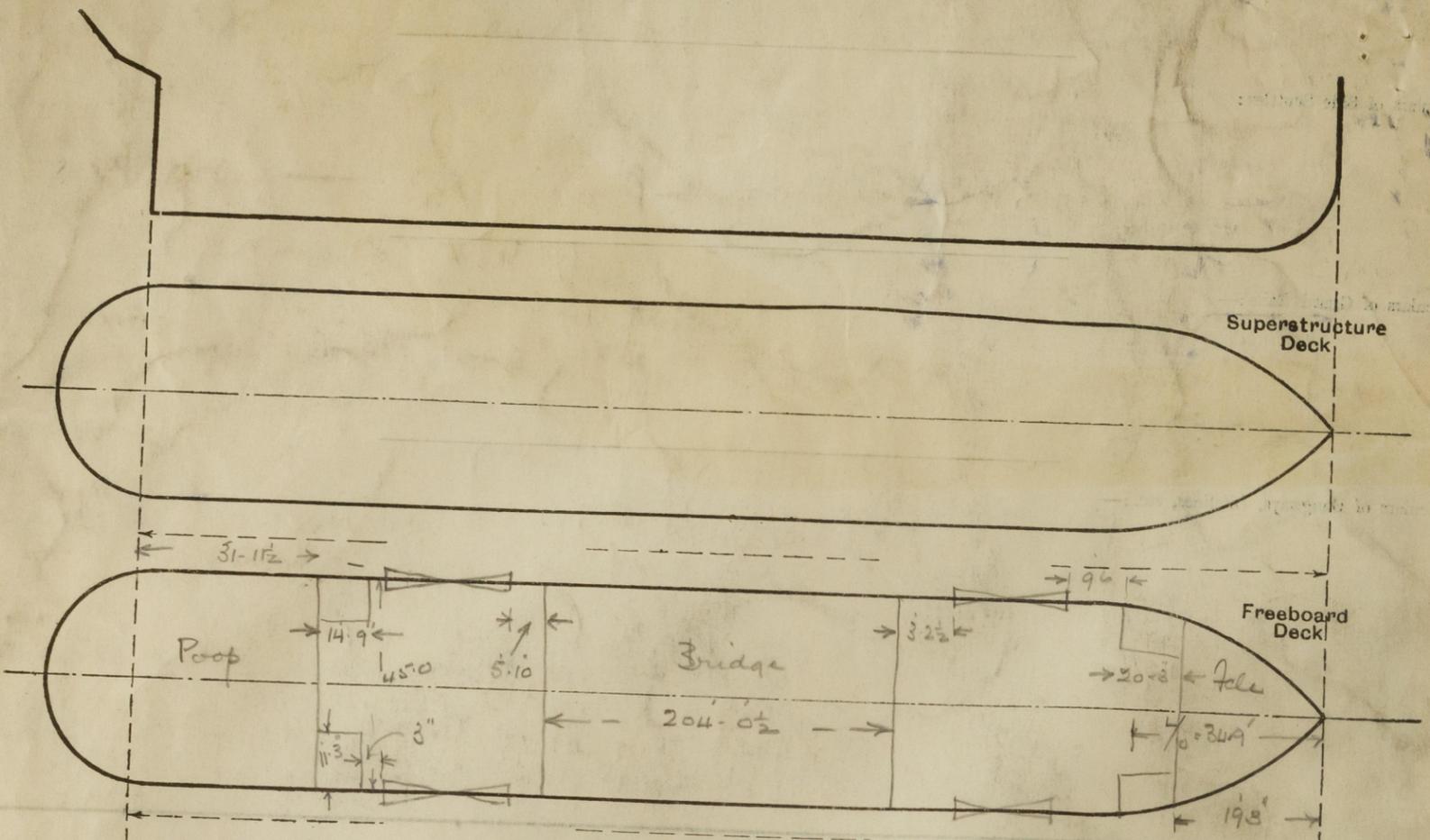
Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well
Forward Well

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 Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead
Raised Quarter Deck Bulkhead
Bridge, After Bulkhead
Bridge, Forward Bulkhead
Forecastle Bulkhead
Trunk, Aft
Trunk, Forward
Exposed Machinery Casings on Freeboard or Raised Quarter Decks
Exposed Machinery Casings on Superstructure Decks
Machinery Casings within Superstructures not fitted with Class I Closing Appliances
Deckhouses on Flush Deck Ships

Particulars of Closing Appliances (state if capable of being manipulated from both sides).	
Poop Bulkhead	...
Raised Quarter Deck Bulkhead	...
Bridge, After Bulkhead	...
Bridge, Forward Bulkhead	...
Forecastle Bulkhead	...
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	...
Exposed Machinery Casings on Superstructure Decks	...
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	...
Deckhouses on Flush Deck Ships	...

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



$14.75 \times \frac{22.5}{45.0} = 4.38$ 46.96 39.34 $4.62 \div 2 =$	31.96 3.81 42.15	39.34	$4/10 = 34.9$ 49.0 $2 \frac{14}{1} = 7.05$ 41.95
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State any special features in the construction of the ship:—

Bridge:— $3.20 \div 2 = 1.60$
 $204.04 - 204.04 = 210.01$
 $5.83 \times 3/4 = 4.37$

Position of lowest side scuttle:— $23-8$ from bottom of keel

Builder's name and yard number

Names of sister ships

Owners *Bombay & Persia SNGold*

Fee £

Received by me