

# Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

Index No. **29333**  
(For London Office only.)

FRI. SEP 17 1920

40367.

ICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH GALLANT FORECASTLES, SHORT POOP, AND BRIDGE HOUSE, DISCONNECTED, OR H-TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES OR OTHERWISE.

Port of Survey Glasgow  
Date of Survey While building  
Name of Surveyor Henry A Gibbs

Ship's Name. **MATHURA** Port of Registry and Nationality. Liverpool British Official Number. 143690 Gross Tonnage. 100A1 (contemplated) Date of Build. 1920 Particulars of Classification.

Length. 518-0 Breadth. 63-9 Depth. 35-65 Under Deck Tonnage. 8901-57  
Frame Depth 125 Ceiling + .70 Rule 7 Sheer + .91 Tanks Excess 55  
Vertical flush - .92 spanning + .33  
515-66 63-8 37-76 8901-57

Efficient of fineness..... .74  
Modification necessary } Tank rises 5 1/2" at margin  
Para. 4 (a) to (e) \* }  
Efficient as corrected ..... .74

Stem..... 129 } 189 ÷ 2 = 94.5 ... Mean  
Sternpost ... 60  
at 1/3 of the length from { Stem 71 } 102 ÷ 2 = 52 ... Mean  
Sternpost 33 } 55  
Dual mean Sheer 94.52 + 94.5 = 94.52 = 94.52  
Standard mean Sheer [Table, Para. 18] ..... 61.56 Correction  
Difference..... 32.96 ÷ 4 = - 8 1/2"  
limited as Para. 18 (f) .....

ise in Sheer { At front of bridge house.....  
in amidships {  
Para. 18 (e) } At after end of forecastle .....

Fall in Sheer }  
Para. 18 (d) } ÷ 2 =  
Length uncovered ..... Correction

ALLOWANCE FOR DECK ERECTIONS :—  
Freeboard, Table C..... (10 - 9 1/4) - (3 - 2) 7.75  
Correction for Length, if required (Para. 12, 13, and 14) .....  
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) } 10.1  
Difference ..... 2.53 1/4  
Percentage as below..... 40%

rection for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }  
Allowance for Deck Erections ..... - 12"

	Length.	Length allowed.	Height.
Forecastle.....	<u>41.5</u>	<u>41.5</u>	<u>7.0</u>
Bridge House.....	<u>222.5</u>	<u>221.4</u>	<u>7.95</u>
Deck.....	<u>48.75</u>	<u>46.49</u>	<u>7.75</u>
Total .....		<u>309.39</u>	
Length of Ship .....		<u>515.66</u>	<u>= .60</u>
Responding percentage } Para. 12, 13, and 14) }			<u>40%</u>

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Iron) Deck :—  
Fresh Water Line above centre of Disc  
Indian Summer Line " " "  
Winter Line below " "  
Winter North Atlantic Line " " "

If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.  
Vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.  
Dual-decked vessels the total standard mean sheer means the sheer measured at the stem and sternpost. In vessels having poops and forecastle, it means the sheer measured at points distant one-eighth of the vessel's length from stem and sternpost.

Moulded Depth as measured..... 38' 3 3/4"  
Addition for Keel below base line for draught record..... 2 1/2 inches.

CORRECTION FOR LENGTH.  
Length of Ship on Loadline..... 515.66  
Length in Table ..... 459.75  
Difference ..... 55.91  
Correction for 10ft., Table A. .... 1.7 Table C.  
× Difference divided by 10 ..... 9.5 (if required.)  
If 1/10ths length covered divide by 2 + 4 3/4"

CORRECTION FOR IRON DECK.  
Proportion covered, if less than 1/10ths length covered ..... .60  
Thickness of usual wood deck, less stringer ..... 3 1/2"  
- 2 1/2"

CORRECTION FOR ROUND OF BEAM.  
Breadth at Gunwale amidships..... 62.0  
Round of Beam ..... 16"  
Normal round..... 15.5  
Difference ..... .5 ÷ 2 = ..... .25  
Proportion of Deck uncovered (Para. 19) ..... 40

Freeboard, Table A ..... 10.9 1/4  
Correction for Sheer ..... - 8 1/4  
10.1  
Correction for Length ..... + 4 3/4  
10.53 1/4  
Allowance for Deck Erections ..... - 1.0  
9.53 1/4  
Correction for Round of Beam.....  
Correction for fall in Sheer (if any).....  
Correction for Iron Deck (if required) ..... - 2 1/2  
9.31 1/2  
Additions for non-compliance with provisions of }  
Para. 11 (d) and (e) ‡ }  
Other Corrections (if any) .....

Winter Freeboard ..... 9.35  
Summer Freeboard ..... 8.85  
Indian Summer Freeboard ..... 8.15  
N.A. Winter Freeboard .....

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or iron deck with side. } 1 3/4"

Winter Freeboard from deck line ..... 9.52  
Summer " " " ..... 8.10 1/2  
Indian Summer " " " ..... 8.35  
N.A. Winter " " " .....

Wood (Iron) Deck :—  
Fresh Water Line above centre of Disc  
Indian Summer Line " " "  
Winter Line below " "  
Winter North Atlantic Line " " "

State dimensions of freeing port area on back of this form.  
The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft should be reported.

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Do all the Frames extend to the top height in the Poop? *Yes* Raised Quarter Deck? *Yes*  
 To what height do the Reverse Frames extend? *Second Deck* Forecastle? *Yes*  
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes*  
 Give particulars of the means for closing the openings in Bulkhead *Hinged doors*  
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *No* Has the Bridge House an efficient Bulkhead at the fore end? *Yes*  
 Give particulars of the means for closing the openings in Bulkhead *No openings*  
 What is the thickness of the Bridge Front plating? *.40* and Coaming plate? *.40*  
 Give scantlings and spacing of the Stiffeners *9 x 3 1/2 x .64 spaced 30"*  
 Are bracket plates fitted at each end of the Stiffeners? *Yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *Yes*  
 Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes*  
 How are the openings closed? *Storm boards full height in permanent channels*  
 Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *Open*  
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Yes*  
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *Yes*  
 Give thickness of plating; scantlings and spacing of Stiffeners *✓*  
 What is the height of the exposed Casings? *✓* Are suitable means provided for closing all openings in them in bad weather? *✓*

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below: — *Bridge*

Position and Size.	No. 147 22.6 x 21.0		No. 2 37.6 x 21.0		No. 3 15.0 x 21.0		No. 4 17.6 x 21.0		No. 5 6.35.0 x 21.0	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING. Height above top of DECK	36"		36"		30"		30"		33"	
Thickness { Sides.....	.44		.44		.44		.44		.44	
Ends.....	.44		.44		.44		.44		.44	
SHIFTING BEAMS OR WEB PLATES. Number .....	4 Webs		7 Webs		2 Webs		3 Webs		6 Webs	
Section and Scantlings .....	17 x 36		17 x 36		13 1/2 x 34		12 1/2 x 33		19 x 36	
Material .....	steel		steel		steel		steel		steel	
* FORE AND AFTERS. Number .....	No		No		No		No		No	
Section and Scantlings .....	No		No		No		No		No	
Material .....	No		No		No		No		No	
HATCHES Thickness .....	3"		3"		3"		3"		3"	
Remarks.....	Bull angles 7 x 3 x .44 on sides & ends of hatchways Round mild stays fitted on sides & ends of upper deck hatchways									

\* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.  
 (If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? \_\_\_\_\_ Strake between Main and Bridge Sheerstrakes? \_\_\_\_\_

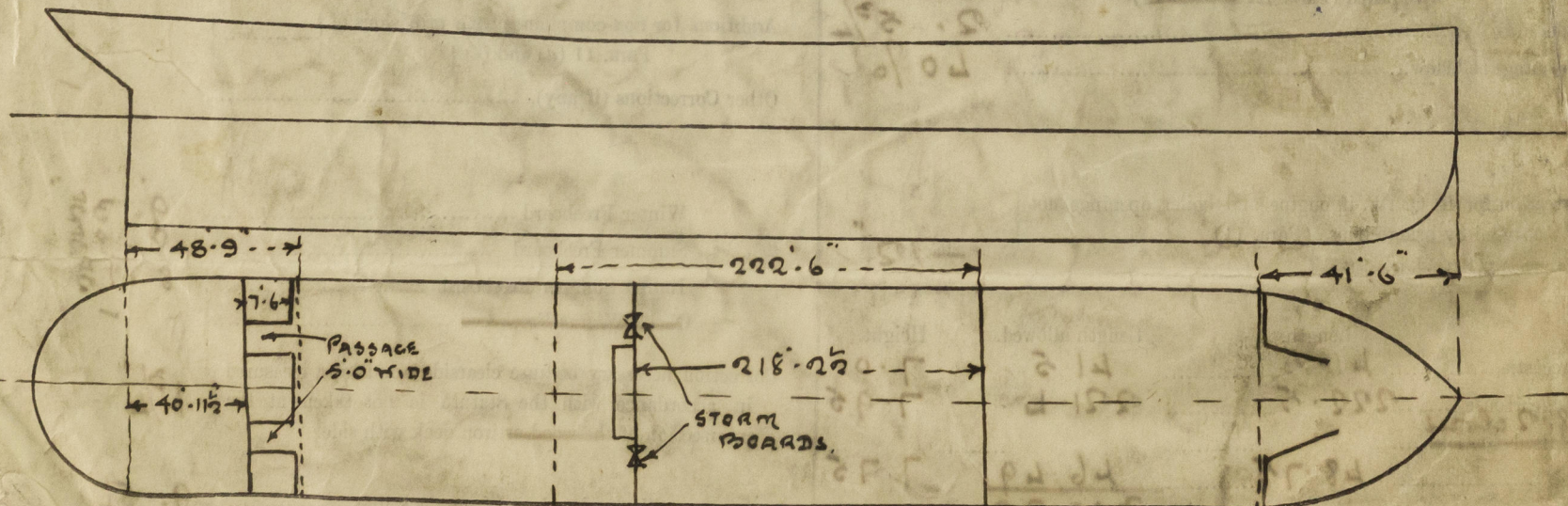
Delete the words { The Crew are, are not, berthed in the bridge house.  
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Length of Bulwarks in well \_\_\_\_\_

Area of Freeing Ports required by Para. 11 (e) each side of vessel = \_\_\_\_\_ Sq. ft.

Ft.	Tenths.	Ft.	Tenths.	No.	Freeing Ports (each side of vessel)	=	Sq. ft.
x	x	x	x				
x	x	x	x				

Total deficiency or excess = \_\_\_\_\_ Sq. ft.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

Fee: any special features in the construction of the Vessel *Vessel to be classed 100 A1.*  
*This is a sister vessel to S.S. "Mangalore" except that the ceiling on tank tops. Midship section enclosed.*  
 Owners *T & J Brocklebank.*  
 Address *8 8 0*

Received by \_\_\_\_\_

