

Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

40367

Particulars relating to all steam ships either flush decked, or with gallant forecastles, short poops and bridge houses disconnected, or with 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 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: 100A1 (contemplated)

LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
518-0	63-9	35-65	8901-57
515-66	63-9	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
Sternpost 60
 $189 \div 2 = 94.5$... Mean
Stem 71
Sternpost 33
 $104 \div 2 = 52$... Mean
Dual mean Sheer $\frac{94.5 + 52}{2} = 73.25$
Standard mean Sheer [Table, Para. 18] 61.56
Difference $32.96 \div 4 = -8.24$
Limited as Para. 18 (f)

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

Fall in Sheer }
Para. 18 (d) } $\div 2 =$
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%
Correction 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.
41.5	41.5	7.0
222.5	221.4	7.95
48.75	46.49	7.75
Total	<u>309.39</u>	
Length of Ship	<u>515.66</u>	<u>= .60</u>
Responding percentage } Para. 12, 13, or 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 forecastles, 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.
 \times 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 $\div 2 =$ 2.5
Proportion of Deck uncovered (Para. 19) 40

Freeboard, Table A 10.94
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 " " " "

Winter Freeboard from deck line 8.10
Summer " " " " 7 1/2
Indian Summer " " " " 7
N.A. Winter " " " "

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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? *.44*
 Give scantlings and spacing of the Stiffeners *9 x 3 1/2 x .64 B.A. 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. 6. 35.0 x 21.0	
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	<i>7 3/8</i>	<i>36</i>	<i>36</i>	<i>30</i>	<i>30</i>	<i>30</i>	<i>30</i>	<i>33</i>	<i>33</i>
	Thickness	Sides	<i>.44</i>	<i>.44</i>	<i>.44</i>	<i>.44</i>	<i>.44</i>	<i>.44</i>	<i>.44</i>	<i>.44</i>
		Ends	<i>.44</i>	<i>.44</i>	<i>.44</i>	<i>.44</i>	<i>.44</i>	<i>.44</i>	<i>.44</i>	<i>.44</i>
SHIFTING BEAMS OR WEB PLATES.	Number	<i>4 Webs</i>	<i>7 Webs</i>	<i>2 Webs</i>	<i>3 Webs</i>	<i>6 Webs</i>				
	Section and Scantlings	<i>17 x 36</i>	<i>17 x 36</i>	<i>13 1/2 x 36</i>	<i>12 1/2 x 33</i>	<i>19 x 36</i>				
	Material	<i>4 x 3 x .44 steel</i>	<i>4 x 3 x .44 steel</i>	<i>4 x 3 x .44 steel</i>	<i>4 x 3 x .44 steel</i>	<i>4 x 3 x .44 steel</i>				
* FORE AND AFTERS.	Number	<i>No fore & afters</i>								
	Section and Scantlings									
	Material									
HATCHES Thickness	<i>3"</i>	<i>3"</i>	<i>3"</i>	<i>3"</i>	<i>3"</i>	<i>3"</i>				
Remarks	<i>Bull angles 7 x 3 x .44 on sides & ends of hatchways round with stays fitted on sides & ends of upper deck hatchways</i>									

* 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? _____

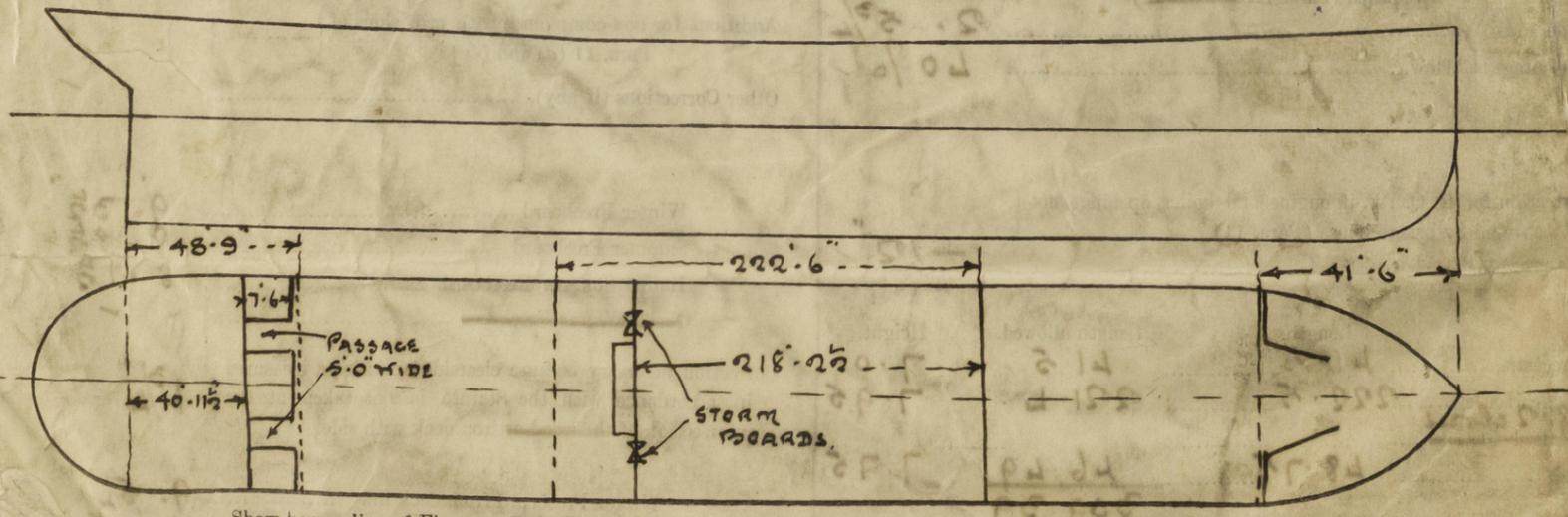
Delete the words { The Crew are, are not, berthed in the bridge house. that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

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		

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 ceiling on tank tops. Midship section enclosed.
 Owners *T & J Brocklebank.*
 Address _____

8 8 0 Received by _____

