

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP 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 Calcutta.
Date of Survey 13.11.28
Name of Surveyor S. Kishore

Ship's Name. T.S.S. ARANKOLA	Port of Registry and Nationality. <u>Glasgow British</u>	Official Number. <u>129533</u>	Gross Tonnage. <u>4026</u>	Date of Build. <u>1911-1</u>	Particulars of Classification. <u>100A1 Shade Deck</u>
Number in Register Book					

Registered dimensions from Ship's Register.	LENGTH. <u>390.3</u>	BREADTH. <u>50.36</u>	DEPTH. <u>32.08</u>	UNDER DECK TONNAGE. <u>2888.56</u>
Length on LOADLINE.	<u>389.5</u>	Frame Depth Rule <u>5 1/2</u> <u>+ 2.00</u>	Ceiling <u>framed</u> Sheer <u>+ .70</u> <u>Drop at margin + .12</u>	Peak } <u>ruled</u> Tanks } <u>Deep D.B</u> <u>+ 8.19 + 20 tons</u>
CORRECTED DIMENSIONS.	<u>389.5</u>	<u>50.03</u>	<u>22.90</u>	<u>2908.56</u>

Moulded Depth as measured..... 24-6

Addition for Keel below base line for draught record.....inches.

NOTE.— If the depth is measured when vessel is afloat, the details of measurement should be reported.

Co-efficient of fineness..... .65

Any modification necessary } C.D.B
[Para. 4 (a) to (e)]* }

Co-efficient as corrected68 Lowest in Tables

CORRECTION FOR LENGTH

Length of Ship on Loadline.....	<u>389.5</u>
Length in Table	<u>294.0</u>
Difference	<u>95.5</u>
Correction for 10ft., Table A.	<u>1.3</u> Table C.
× Difference divided by 10	<u>12.41</u> (if required.)
If 1/10ths length covered divide by 2	<u>6.20</u>
	<u>+ 6 1/2</u>

Sheer at { Stem.....95.25
 { Sternpost ..49.50 } $144.75 \div 2 = 72.375$ Mean

Sheer at 1/3 of the length from { Stem 54.5
 { Sternpost 27.0 } $81.5 \div 2 = 40.75$ Mean

Gradual mean Sheer 78.23 $\div .58 = 74.09$

Standard mean Sheer [Table, Para. 18] 48.95 Correction

Difference..... 24.28 $\div 4 = 6.07$

§ If limited as Para. 18 (f) -6

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered -

Thickness of usual wood deck, less stringer 3 1/2 - 1

2 1/2" wood sheathing fitted

Rise in Sheer from amidships } At front of bridge house..... -
[Para. 18 (e)] { At after end of forecastle -

Fall in Sheer } ✓ $\div 2 =$
Para. 18 (d) }

Length uncovered Correction

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 49. 3/4

Round of Beam 12 1/4

Normal round..... 12 1/4

Difference - $\div 2 =$

Proportion of Deck uncovered (Para. 19) ✓

ALLOWANCE FOR DECK ERECTIONS :-

Freeboard, Table C.....	<u>2 - 3</u>
Correction for Length, if required (Para. 12, 13, and 14)	<u>-</u>
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }	<u>4.4</u>
Difference	<u>2.4</u>
Percentage as below.....	<u>55.29%</u>
	<u>15.44</u>

Freeboard, Table A	<u>5.1</u>
Correction for Sheer	<u>- 6</u>
	<u>4.4</u>
Correction for Length	<u>+ 6 1/4</u>
	<u>5.1 1/4</u>
Allowance for Deck Erections	<u>- 1.3 1/2</u>
	<u>3.9 3/4</u>
Correction for Round of Beam.....	<u>-</u>
Correction for fall in Sheer (if any).....	<u>-</u>
Correction for <u>2 1/2" wood sheathing on</u> Steel Deck (if required)	<u>- 1</u>
	<u>3.8 3/4</u>

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }

Allowance for Deck Erections - 1 - 3 1/2

Additions for non-compliance with provisions of Para. 11 (d) and (e) † -

Other Corrections (if any) -

	Length.	Length allowed.	Height.
Forecastle.....	<u>58'-4"</u>	<u>53.51</u>	<u>7'-2"</u>
Bridge House	<u>242'-3"</u>	<u>217.06</u>	<u>8'-0"</u>
† Raised Qr. Dk.....	<u>✓</u>		
Poop.....	<u>24'-2"</u>	<u>22.7</u>	<u>7'-7"</u>
Total	<u>324.9</u>	<u>298.27</u>	<u>75.29</u>
Length of Ship	<u>389.5</u>	<u>389.5</u>	
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>55.29%</u>		

Winter Freeboard 3. 8 3/4

Summer Freeboard 4/2 3 - 4 1/4

Indian Summer Freeboard 2 - 11 3/4

N. A. Winter Freeboard

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood ~~deck~~ deck with side. 1 1/2"

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood ~~Deck~~ Deck :-

Fresh Water Line	above centre of Disc
Indian Summer Line	" " "
Winter Line	below " " "
Winter North Atlantic Line	" " "

Winter Freeboard from deck line	<u>3 - 10 1/4</u>
Summer " " " "	<u>3 - 5 3/4</u>
Indian Summer " " " "	<u>3 - 1 1/4</u>
N. A. Winter " " " "	<u>-</u>
	<u>3. 5 1/2</u>
	<u>5"</u>
	<u>(limited by side scuttles)</u>
	<u>4 1/2</u>

* the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.

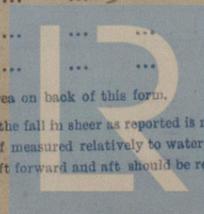
† In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abnt amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.

‡ In flush-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.

† 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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SHADE DECK -

Position and Size.		No. 1 12'-7" x 10'-0"		No. 2 20'-10" x 12'-0"		No. 3 20'-10" x 12'-0"				
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING. Height above top of DECK	9"		as		as in					
	Sides..... 40		in No. 1		No. 1.					
Thickness	Ends..... 36									
SHIFTING BEAMS OR WEB PLATES.	Number 3.		5		5.					
	Section and Scantlings 9" x 34.		as in		as in					
	Material 3x3 angle		No. 1.		No. 1.					
* FORE AND AFTERS.	Number Nil		Nil		Nil.					
	Section and Scantlings									
	Material									
HATCHES Thickness		3"		3"		3"				
Remarks.....										

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.



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- MAIN DECK -

Position and Size.		No 1 14-7 x 10-0		No 2 20-10 x 12-0"		No 3 20-10 x 12-0"					
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	Flush.		as in		as in					
	Thickness {	Sides.....		No 1.		No 1.					
		Ends.....	. 10								
SHIFTING BEAMS OR WEB PLATES.	Number	3.		6.		6.					
	Section and Scantlings	9" x 34.		as in		as in					
	Material	3x3 angles		No 1.		No 1.					
* FORE AND AFTERS.	Number										
	Section and Scantlings	H.L.		H.L.		H.L.					
	Material										
HATCHES Thickness		3"		3"		3"					
Remarks.....											

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.



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Do all the Frames extend to the top height in the Poop? *Yes* Raised Quarter Deck? *✓* Bridge House? *Yes* Forecastle? *Yes*
 To what height do the Reverse Frames extend? *Upper Deck and every 4th to shade deck in way of bridge*
 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 wood 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 *Hinged steel doors*
 What is the thickness of the Bridge Front plating? *25* and Coaming plate? *30*
 Give scantlings and spacing of the Stiffeners *5x3x35 angles spaced 24" to 36" with 3 webs*
 Are bracket plates fitted at each end of the Stiffeners? *No* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *No*
 Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes*
 How are the openings closed? *Storm boards in riveted channels to half height*
 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? *No*
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Bridge*
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *-*
 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:— *Yes*

Position and Size.	No 1 Fore 14'-7" x 10'-0"		No 2 20'-10" x 12'-0"		No 3 20'-10" x 12'-0"					
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING	Height above top of DECK	30"		30		30				
	Thickness	Sides	40		44		44			
		Ends	36		40		40			
SHIFTING BEAMS OR WEB PLATES	Number	2		5		5				
	Section and Scantlings	JL 15 1/2 x 34 3 x 3 x 34		JL 18 1/2 x 34 (2) Inf 3 x 3 x 34 T 10 x 6 x 5 1/2 (3)		as in No 2				
	Material	Steel								
* FORE AND AFTERS	Number	Nil		Nil		Nil				
	Section and Scantlings									
	Material									
HATCHES	Thickness	3"		3"		3"				
	Remarks	Teak plating		Teak plating		Teak plating				

Particulars shown reported of ha supports on shade deck in these are the upper part of the

NOTE. — The round of beam should be reported on the full breadth of vessel at the gunwale.

UPPER DECK.

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

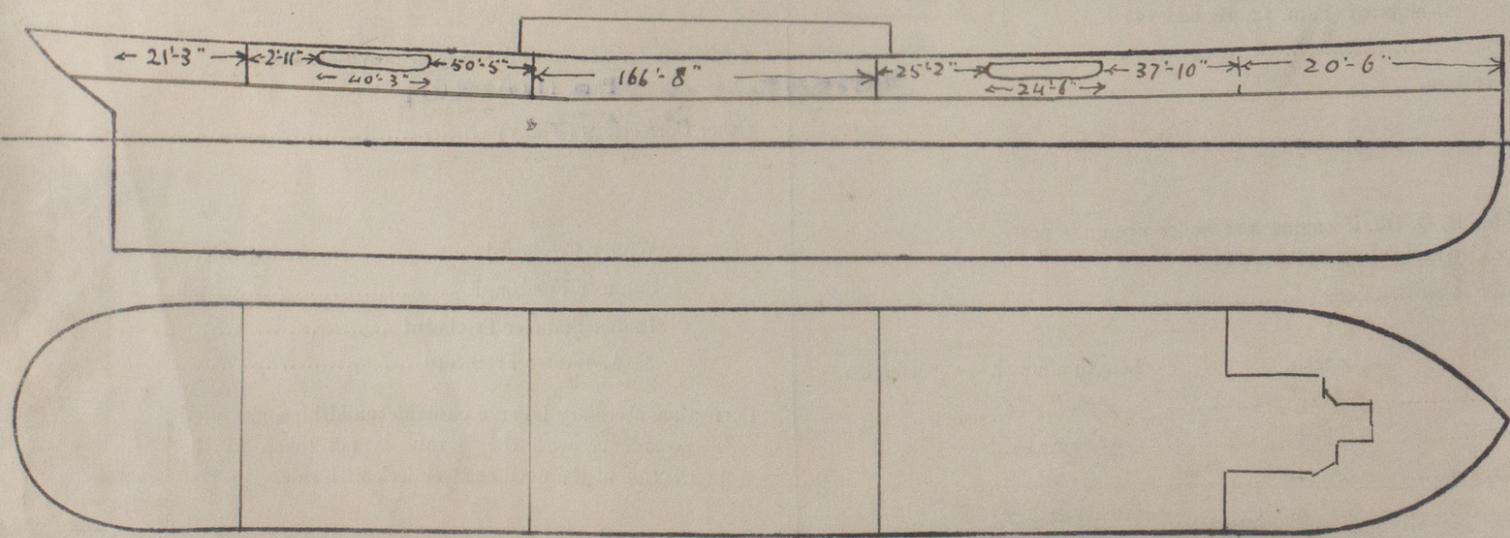
(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

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.					
x x			} Freeing Ports (each side of vessel)	=	Sq. ft.
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.

State any special features in the construction of the Vessel *Side lights fitted 2'-11" from top of Statutory (1 1/2" above wood deck) to lower edge of lights*

Builder's name and yard number

Names of sister vessels

Owners

Address

Fee *50/-*

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