

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD. STEAM SHIPS.

No. 18382

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 GREENOCKDate of Survey WHILE BUILDINGName of Surveyor A.D. Cairns.

| Ship's Name | Port of Registry and Nationality. | Official Number. | Gross Tonnage. | Date of Build. | Particulars of Classification. |
|---|-----------------------------------|------------------|----------------|----------------|----------------------------------|
| <u>S.S. "RAJPUT"</u> <u>LITHGOWS LTD No 773.</u> | <u>LONDON.</u> <u>BRITISH.</u> | <u>1448597</u> | <u>✓</u> | <u>1925.</u> | <u>+100 A.I. (contemplated).</u> |
| Number in Register Book | | | | | |

| Registered dimensions from Ship's Register. | LENGTH. | BREADTH. | DEPTH. | UNDER DECK TONNAGE. |
|---|--------------|--|--|----------------------------------|
| | <u>405.0</u> | <u>54.0</u> | <u>28.75</u> | <u>5019.24</u> |
| Length on LOADLINE. | <u>404.0</u> | Frame Depth <u>10 1/2</u> Rule <u>6 1/2</u> Sheer <u>+1.06</u> <u>- .66</u> | No Ceiling <u>+2.0</u> Peak Tanks <u>for 8" frames in Tween Decks - 12 Tons</u> | <u>5007.24</u> <u>5019.24</u> |
| CORRECTED DIMENSIONS. | <u>404.0</u> | <u>53.34</u> | <u>30.01</u> | |

Co-efficient of fineness..... .7764
Any modification necessary { - .02 C.D.B.
[Para. 4 (a) to (e)]*
Co-efficient as corrected758 .76

Sheer { Stem..... 120 } 180 ÷ 2 = 90 ... Mean
at { Sternpost ... 60 }
Sheer at 1/2 of the length from { Stem 65 } 97.5 ÷ 2 = 48.75 ... Mean
{ Sternpost 32.5 } ÷ .55 = 88.63
Gradual mean Sheer 88.63
Standard mean Sheer [Table, Para. 18] 50.4 Correction
Difference..... 38.23 ÷ 4 = 9.55
§ If limited as Para. 18 (f) - 9 1/2

Rise in Sheer { At front of bridge house.....
from 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..... 4 - 10 1/4
Correction for Length, if required (Para. 12, 13, and 14) + 2 1/4
5 - 10 1/2
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) 7 - 7 1/2
2 - 6 1/2
Difference 35.6884%
Percentage as below..... 10.79

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) - 10 3/4
Allowance for Deck Erections - 10 3/4

| | Length. | Length allowed. | Height. |
|---|---------------|------------------|---------------|
| Forecastle..... | <u>46.58</u> | <u>46.58</u> | <u>7-9</u> |
| Bridge House..... | <u>140.00</u> | <u>134.66</u> | <u>7-9</u> |
| ↑ Raised Q. Dk..... | | | |
| Poop..... | <u>40.08</u> | <u>40.08</u> | |
| Total | <u>220.66</u> | <u>221.327-9</u> | <u>= .548</u> |
| Length of Ship | <u>404.00</u> | <u>54.51</u> | |
| Corresponding percentage { <u>84</u> (Para. 12, 13, and 14) { <u>35.68</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 | " " " | ... |

21 APR 1925

§ If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside should be reported if possible.
§ In 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.
§ In vessels having poops and forecastles, it means the sheer measured at points distant 1/2 length of the vessel's length from stem and stern-post.

Moulded Depth as measured..... 31' 3"
Addition for Keel below base line for draught record..... 2 1/4 inches.

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

31-13
1 1/2
32-14 1/2
3-7 1/2
28-9

CORRECTION FOR LENGTH.

Length of Ship on Loadline..... 404.0
Length in Table 375.0
Difference 29
Correction for 10ft., Table A. 1.6 ✓ Table C. .8 ✓
× Difference divided by 10 4.64 (if required.) 2.32 ✓
If 1/10ths length covered divide by 2 + 4 1/2 3/4 + 2 1/4 ✓

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered5488
Thickness of usual wood deck, less stringer 3.76
2 3/4" Teak sheathing instead of 3 1/2" = 8.75 (max)
in Wells only no sheathing amidships

CORRECTION FOR ROUND OF BEAM.

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

Breadth at Gunwale amidships..... 53' 0"
Round of Beam 13 1/2
Normal round..... 13 1/4
Difference 1/4 ÷ 2 = 1/8
Proportion of Deck uncovered (Para. 19) ✓

Freeboard, Table A 8 - 0 1/4
Correction for Sheer - 9 1/2
7 - 2 3/4 1/4
Correction for Length + 4 1/2 3/4
7 - 7 1/2
Allowance for Deck Erections - 10 3/4
6 - 8 1/2
Correction for Round of Beam..... ✓
Correction for fall in Sheer (if any)..... ✓
Correction for ~~Iron~~ ^{Steel} Deck (if required) - 3 1/4
6 - 5 1/2 1/4
Additions for non-compliance with provisions of {
Para. 11 (d) and (e) {
Other Corrections (if any)

Winter Freeboard 6 - 5 1/2 1/4
Summer Freeboard (5-6 1/4) 5.3
Indian Summer Freeboard 5 - 5 1/2 1/4
N. A. Winter Freeboard

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

Winter Freeboard from deck line 6 - 7 1/2
Summer " " " 6 - 7 1/2 3/4
Indian Summer " " " 5 - 7 1/2
N. A. Winter " " " 6 - 7 1/2

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. It measured relatively to water line the vessel's draught at stem of keel, and also the usual load draft forward and aft should be reported.

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Lloyd's Register
MAKING FORM
12 MAY 1925
London

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? DEEP BULK ANGLE FRAMES
 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 2 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 2 W.T. STEEL HINGED DOORS
 What is the thickness of the Bridge Front plating? .40 and Coaming plate? .44
 Give scantlings and spacing of the Stiffeners 9x3x50 B.A @ 30"
 Are bracket plates fitted at each end of the Stiffeners? LUGS 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 RIVETED 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? ✓
 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. 22'-6" x 16'-0" | | No. 2. 30'-4" x 16'-0" | | No. 3. 14'-0" x 16'-0" | | No. 4. 30'-4" x 16'-0" | | No. 5. 23'-4" x 16'-0" | |
|------------------------------|-----------------------------|-----------------------|------------------------|-------|------------------------|-------|------------------------|-------|------------------------|-------|
| Item. | Ship. | Rule. | Ship. | Rule. | Ship. | Rule. | Ship. | Rule. | Ship. | Rule. |
| COAMING | Height above top of DECK | 30" | 30" | | 30" | | 30" | | 30" | |
| | Sides..... | .44 | .44 | | .44 | | .44 | | .44 | |
| | Thickness { Ends..... | .44 | .44 | | .44 | | .44 | | .44 | |
| SHIFTING BEAMS OR WEB PLATES | Number..... | 4 | 5 | | 2 | | 5 | | 4 | |
| | Section and Scantlings..... | 13x.33 | 14x.34 | | 13x.33 | | 14x.34 | | 13x.33 | |
| | Material..... | 3 1/2 x 3 x .42 STEEL | 3 1/2 x 3 x .42 STEEL | | 3 1/2 x 3 x .42 STEEL | | 3 1/2 x 3 x .42 STEEL | | 3 1/2 x 3 x .42 STEEL | |
| | | | | | | | | | | |
| * FORE AND AFTERS | Number..... | | | | | | | | | |
| | Section and Scantlings..... | NONE | NONE | | NONE | | NONE | | NONE | |
| | Material..... | | | | | | | | | |
| HATCHES Thickness..... | 3" | | 3" | | 3" | | 3" | | 3" | |
| Remarks..... | SOLID. | | SOLID. | | SOLID. | | SOLID. | | SOLID. | |

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

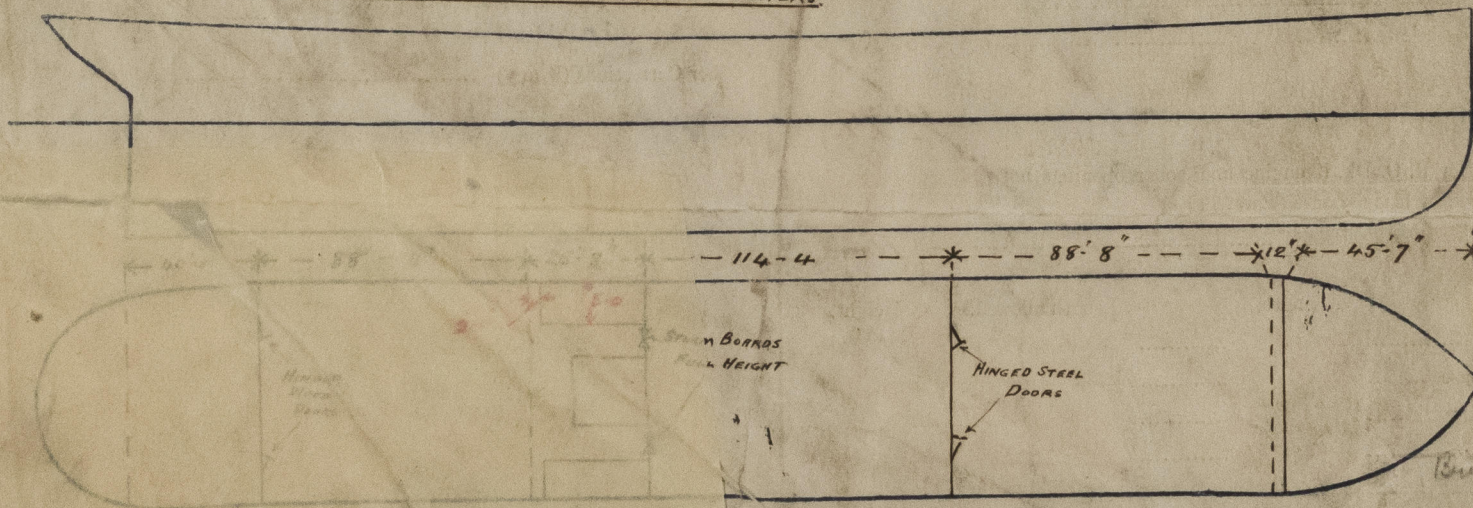
(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

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.

$88.67 \times 3.75 = 332.5$
 Length of Bulwarks in well $88' 8"$ in BOTH FORWARD & AFT WELLS. 3'-4" high
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = 33.24 Sq. ft.
 Ft. Tenths. Ft. Tenths. No.
 4.0 x 1.5 x 4 forward = 24.0 Sq. ft.
 x x 4 aft =
 Total deficiency or excess = 9.24 Sq. ft.

THE FREEING PORTS AS FITTED ARE AS DESIRED BY THE OWNERS ✓



Show horizon line & 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. Plans of midship section, Profile & decks are enclosed

herewith for reference. Also enclosed report of Surveyor.

Surveyor's Building, 11, Upper...

Fee £ 11.00

8. Report