Rpt. 11b. Bombay 32434/1

...TICATION REPORT. FORM No. 9 ATTACHED

Index No. 32434 (For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS. No. 29719

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 Sunderland
Date of Survey White building
Name of Surveyor James Dickie

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
S.S. "BOTHNIA". Number in Register Book ✓	LONDON BRITISH.	160475 ✓	✓	1928	+100 A1. CONTEMPLATED.

Registered dimensions from Ship's Register.	Length.	Breadth.	Depth.	Under Deck Tonnage.
	292·3	45·0	20·35	2085·45
Length on Loadline.	292·0	Moud Frame Depth 7½ Rule " 5½ 7½ 2 1½×2=3 4 -35 Spanny filled -03	Under Hatches Ceiling +·20 Sheer +·58 -35 1½ deep w. Tank at bunkers. +·06	Peak Tanks } included
Corrected Dimensions.	292·0	44·~~46~~ ·67	21·~~46~~ 19	2085·45

Moulded Depth as measured..... 22·6"

Addition for Keel below base line for draught record..... 1 3/4 ..... inches.

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

Co-efficient of fineness..... ·754
Any modification necessary [Para. 4 (a) to (e)]* Cell DB-·02
Co-efficient as corrected ..... ·73

Sheer at { Stem..... 78 / Sternpost ... 39 } 117 ÷ 2 = 58·5 ...Mean

60·00 39·20 36 | 20·05 ·556

Sheer at ⅛ of the length from { Stem 44 / Sternpost 22 } 66 ÷ 2 = 33 ...Mean ÷·55=60

Gradual mean Sheer (58·5 + 60·0)/2 ... = 59·25
Standard mean Sheer [Table, Para. 18] ..... 39·20
Difference..... 20·05 ÷ 4 = 5·01 Correction
§ If limited as Para. 18 (f) ..... −5"

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

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

Correction

ALLOWANCE FOR DECK ERECTIONS :—

Freeboard, Table C.....	1·10"
Correction for Length, if required (Para. ~~12~~, 13, ~~and 14~~)	+ ¼
	1·11¼
Freeboard by Table A. corrected for sheer, and for length, if required (Para. ~~11~~, ~~12~~, 13, ~~and 14~~)	4·4¼"
Difference	2·5"
Percentage as below.....	30%
	8·7

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) } ✓
Allowance for Deck Erections ..... −8¾"

VG HOUSES.
6 × 4·08 × 2 / 32 = 1·06

	Length.	Length allowed.	Height.
Forecastle.....	28·3½ S.H.	29·35	7·9"
Bridge House	128·7½	128·62	7·9
~~Raised Qr. Dk.~~.....	✓	✓	✓
~~Poop~~.....	✓	✓	✓
Total		157·97	
Length of Ship		292·0	= ·5409.
Corresponding percentage (Para. ~~11~~, ~~12~~, 13, ~~and 14~~)	Limited to 30%		

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, ~~Wood~~ (Steel) Deck :—

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

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† Where 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 abaft 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 stern-post. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and stern-post.

2m,7.27 . T.

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	292·0"	
Length in Table	270·0	
Difference	22·0	
Correction for 10ft., Table A.	1·2	Table C. ·6
× Difference divided by 10	2·64	(if required.) 1·32
If 6/10ths length covered divide by 2	+2¾	+1¼

CORRECTION FOR IRON DECK.

Proportion covered, if less than 7/10ths length covered	·5409
Thickness of usual wood deck, less stringer	3½
	1·893. −2"

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.....	44·6"
Round of Beam	11
Normal round.....	11⅛
Difference	⅛ ÷ 2 =..... 1/16
Proportion of Deck uncovered (Para. 19)	

Freeboard, Table A	4·1½
Correction for Sheer	− 5
	4·1½
Correction for Length	+ 2¾
	4·4¼
Allowance for Deck Erections	− 8¾
	3·7½
Correction for Round of Beam.....	✓
Correction for fall in Sheer (if any).....	✓
Correction for Steel Deck (if required)	− 2
	3·5½
Additions for non-compliance with provisions of Para. 11 (d) and (e) ‡	✓
Other Corrections (if any)	✓

Winter Freeboard	3·5½
Summer Freeboard	3·2
Indian Summer Freeboard	2·10½
N. A. Winter Freeboard	3·7½

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the section of the ~~wood or~~ steel deck with side. + 1¾

Winter Freeboard from deck line	3·7"¼
Summer " " " "	3·3¾
Indian Summer " " "	3·0¼
N.A.Winter " " " "	3·9¼
(Steel) Deck :—	3·3½
... ...	5¼
... ...	3½
... ...	3½
... ...	5½

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

3·5½ − ·5409 = 2·9591

MARKING FORM RECEIVED 8 MAY 1928

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Do all the Frames extend to the top height in the Poop? ✓ Raised Quarter Deck? ... Bridge House? {attainable to Bridge & Upper Decks / Forecastle? Yes

To what height do the Reverse Frames extend? Bulb Angle Framing.

Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? ✓

Give particulars of the means for closing the openings in Bulkhead ✓

Is the Poop or Raised Quarter Deck connected with the Bridge House? ✓ Has the Bridge House an efficient Bulkhead at the fore end? Yes

Give particulars of the means for closing the openings in Bulkhead Into openings 3'0½"x4'7", +18" coamings with steel hinged doors

What is the thickness of the Bridge Front plating? .38 and Coaming plate? .42

	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Depth at Fore end	30"		30"		30"		30"	
Keel	.44	Approved	.44	Approved	.44	Approved	.44	Approved
Garboards	.44		.44		.44		.44	
Bottom Plating								
Sheer Strake								
Bilge Strake								
Upper Strake								
Stringer Plate								
Upper Deck Plating								
Beams								
Keelsons								
Frames Fore and Aft								
Reverse Frames								
Bulkheads								
Thickness of Plating								

22'3½"x17'6"

Approved

.34

Approved

2½

Rules.

That

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