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# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.—STEAM SHIPS. Rpt. No. 3257

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 Kobe  
Date of Survey Whilst building 1919-21  
Name of Surveyor H. G. House & J. G. Fry

Osaka Iron Works Inmashima Yard No. 917

Ship's Name <b>USURI MARU</b>	Port of Registry and Nationality. <b>HABU Japanese</b>	Official Number. <b>27539</b>	Gross Tonnage. <b>6112.8</b>	Date of Build. <b>1921</b>	Particulars of Classification. <b>100A1</b>
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Registered Length	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
407.25	51.04	30.02	5179.5
407.25	Frame Depth $\frac{1}{2}$ Ceiling + .20 Rule " 6 Sheer + .84 $\frac{3\frac{1}{2} \times 2}{12} = .58$	No. Tanks Level tank	Peak Tanks Incl'd.
407.25	50.46	30.98	5179.5

Moulded Depth as measured..... **32'-7"**

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.

### CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	407.25	
Length in Table .....	391.00	
Difference .....	16.25	
Correction for 10ft., Table A. ....	1.6	Table C. 0.8
× Difference divided by 10 .....	2.6	(if required.) 1.3
If $\frac{1}{10}$ ths length covered divide by 2	+ 2.2	+ 1.4

### CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered .....	.547
Thickness of usual wood deck, less stringer .....	3.2
	- 2"

### CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	49
Round of Beam .....	12.3/4
Normal round.....	12.1/4
Difference .....	1/2" ÷ 2 = 1/4"
Proportion of Deck uncovered (Para. 19) .....	.453

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

of fineness..... **.81**

ation necessary (a) to (e)]\* } **-.02** C.D.B.

as corrected ..... **.79**

114 }  $165 \div 2 = 82.5$  Mean  $\frac{36}{84} \times 30.2$

51 }

of the length from Stem **62** }  $89 \div 2 = 44.5$  Mean

Sternpost **27** }

an Sheer ..... **80.9**  $\div 55 = 80.90$

ean Sheer [Table, Para. 18] **50.7**

Difference..... **30.2**  $\div 4 = -7.5$

as Para. 18 (f) .....

At front of bridge house.....

At after end of forecastle .....

At front of bridge house.....

At after end of forecastle .....

At front of bridge house.....

At after end of forecastle .....

### ALLOWANCE FOR DECK ERECTIONS:—

Table C.....	5'-6 1/4"
or Length, if required (Para. 12, 13, and 14) .....	+ 1/4"
Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) .....	5'-7 1/2"
.....	8'-4"
.....	2'-8 1/2"
below.....	35.76

R. Q. Dk. if engine and boiler openings not by bridge house (Para. 11) } **- 1 1/2"**

Deck Erections .....

Length.	Length allowed.	Height.
45'-9"	45.75	7'-9"
137'-3"	137.25	7'-9"
39'-9"	39.75	7'-9"
	222.75	.547
	407.25	

percentage (B, N, or A) } **35.756**

D recommended amidships from centre of Disc to top of Statutory Deck Line, (Iron) Deck:—	
Fresh Water Line above centre of Disc	6'-10"
Indian Summer Line " " "	6 1/2"
Winter Line below " " "	6"
Winter North Atlantic Line " " "	6"

Freeboard, Table A .....	8'-9"
Correction for Sheer .....	- 7 1/2"
Correction for Length .....	8'-1 1/2"
Allowance for Deck Erections .....	+ 2 1/2"
Correction for Round of Beam.....	8'-4"
Correction for fall in Sheer (if any).....	- 1 1/2"
Correction for Iron Deck (if required) .....	7'-4 1/2"
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	- 2"
Other Corrections (if any) .....	7'-2 1/2"

Winter Freeboard .....	7'-2 1/2"
Summer Freeboard .....	6"
Indian Summer Freeboard .....	6'-8 1/2"
N. A. Winter Freeboard .....	6'-2 1/2"

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 .....	7'-4 1/4"
Summer " " " .....	6'-10 1/4"
Indian Summer " " " .....	6'-4 1/4"
N. A. Winter " " " .....	

† 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 over 100 tons an allowance for deck erections under Para. 11 where the sheer draught 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.

MARKING FORM RECEIVED 13 OCT 1920

MARKING FORM RECEIVED 21 NOV 1920

MARKING REPORT RECEIVED 21/11/21

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 alternately to fore-castle deck.  
 Has the Poop ~~on Raised Quarter Deck~~ an efficient Iron Bulkhead at the fore end? yes -  
 Give particulars of the means for closing the openings in Bulkhead Steel hinged doors -  
 Is the Poop ~~on 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 Steel hinged Water tight doors -  
 What is the thickness of the Bridge Front plating? 40 - and Coaming plate? 44 -  
 Give scantlings and spacing of the Stiffeners 8" x 3 1/2" x 64" B.A. - 27" + 30" spacing.  
 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? Steel hinged doors -  
 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? yes -  
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? Bridge house -  
 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: -

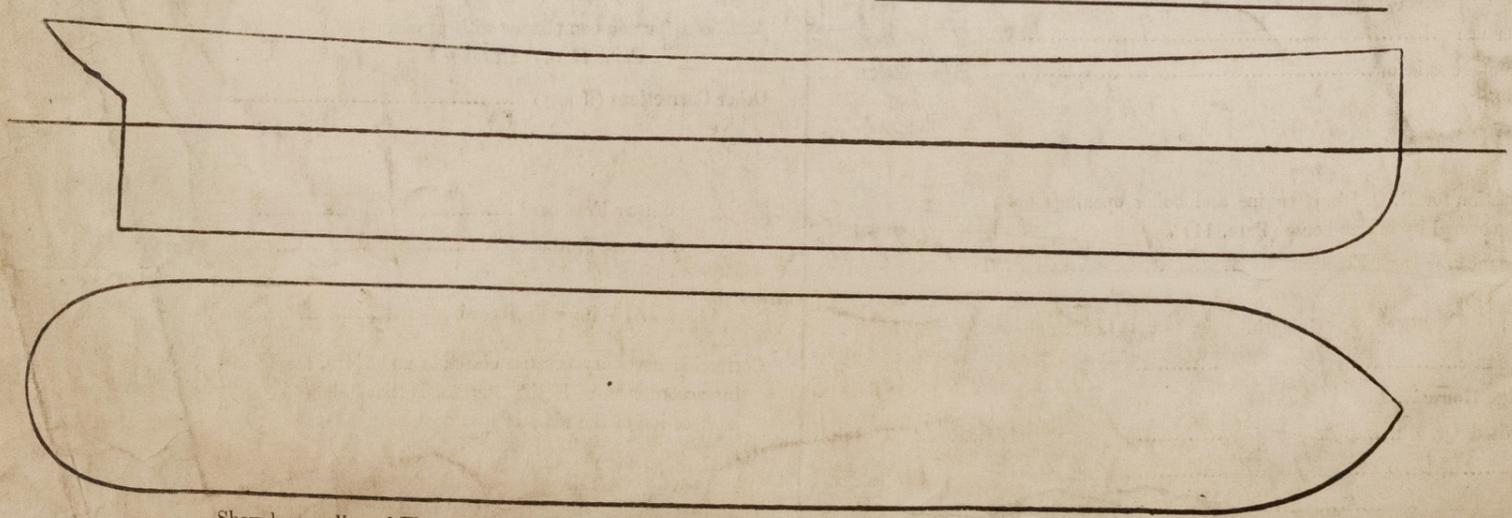
Position and Size.	No 1 27'-0" x 20'-0"		No 2 31'-6" x 20'-0"		No 3 18'-0" x 18'-0"		No 4 11'-3" x 18'-0"		Nos 5+6 Same as No 1.			
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.		
COAMING.	Height above top of DECK	36	36	36	36	24	24	24	24	36	36	
	Thickness	Sides	.50	.50	.50	.50	.50	.50	.45	.45	.50	.50
		Ends	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
SHIFTING BEAMS OR WEB PLATES.	Number	5	5	6	6	3	3	1	1	5	5	
	Section and Scantlings	16 1/2 x 34	16 1/2 x 34	16 1/2 x 34	16 1/2 x 34	15 x 34	15 x 34	15 x 34	15 x 34	16 1/2 x 34	16 1/2 x 34	
	Material	4 x 3 x 44 Angles	4 x 3 x 44 Angles	4 x 3 x 44 Angles	4 x 3 x 44 Angles	4 x 3 x 44 Angles	4 x 3 x 44 Angles	4 x 3 x 44 Angles	4 x 3 x 44 Angles	4 x 3 x 44 Angles	4 x 3 x 44 Angles	
* FORE AND AFTERS.	Number											
	Section and Scantlings	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Material											
HATCHES Thickness	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"		
Remarks	Double B.A on each side coaming + Sing. B.A 7 x 3 x 40 on ends.											

\* 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  
                   x                    x                    }    (each side of vessel) = \_\_\_\_\_ Sq. ft.  
 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  
The freeboards assigned have been marked on the vessels sides and a verification report is enclosed.

Owner The Osaka Iron Works, Ltd.  
 Address Osaka

Loc 4 150.00

Received by me

J. G. Fry



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