

TALAKRISHNA
35488

Govt copy written

24 MAY 1948

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "JALASHA"	Official Number 174197	Nationality and Port of Registry BRITISH. BOMBAY.	Gross Tonnage APPROX. NOW 5102.17 5200 BUILDING.	Date of Build Now BUILDING.	Port of Survey VIZAGAPATAM.
Moulded Dimensions: Length 400' B.P. Breadth 51'-9" Depth 30'-6" Freeboard Length - 400'-6 3/8"					Date of Survey WHILE BUILDING.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 11742 tons					Surveyor's Signature R. V. J. Gordon.
Coefficient of fineness for use with Tables .765					Particulars of Classification + 100A.1

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 30-50'	(a) Where D is greater than Table depth (D-Table depth) R = $(30.53 - 26.70) \times \frac{3}{3.83} = + 11.49"$	Moulded Breadth (B) 51-75'
Stringer plate ... 40" : 03'	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 12.42"$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 13"
Depth for Freeboard (D) = 30-53'		Difference = + 0-58"
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{.58^2}{4} \times \frac{4556}{51.75} = -.07"$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed	40.64	40.64	7'-6"		40.64	Standard Height of Superstructure 7.50'
" overhang						" " R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure 42.00"
" overhang						Percentage covered $\frac{S}{L} = 54.44$
Bridge enclosed	144.67	144.67	8'-0"		144.67	" " $\frac{S_1}{L} = 54.16$
" overhang aft						Percentage from Table, Line A. ✓
" overhang forward						(corrected for absence of forecastle (if required)) ✓
F'cle enclosed	30.49	30.49	7'-3"	7.25/7.50	29.47	Percentage from Table, Line B. 40.16 ✓
" overhang	2.25	2.25			2.17	(corrected for absence of forecastle (if required)) ✓
Trunk aft						Interpolation for bridge less than .2L (if required) ✓
" forward						Deduction = $42.00 \times .4016 = -16.87"$ ✓
Tonnage opening aft						
" " forward						
Total	218.05	218.05			216.95	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	50.06	1	50.06	57"	57.00	1	57.00		
1/2 L from A.P.	22.275	4	89.10	25 3/8"	25.33	4	101.32		
3/8 L	5.505	2	11.01	6 1/3"	6.33	2	12.66		
Amidships		4				4			
3/8 L from F.P.	11.01	2	22.02	12 3/8"	12.67	2	25.34		
1/2 L	44.55	4	178.20	50 3/8"	50.67	4	202.68		
F.P.	100.11	1	100.11	114"	114.00	1	114.00		
Total			450.50				513.00		

Mean actual sheer aft = Excess ✓
Mean standard sheer aft =

Mean actual sheer forward = Excess ✓
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = > .1 L
" " aft of " = > .1 L

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{62.50}{18} \left(.75 - \frac{2722}{4778} \right) = -1.66"$ ✓
If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	71.67 ✓
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line 1330.	Correction for coefficient $\frac{.765 + .68}{1.36} = 1.445/1.36$	70.15 ✓
Depth to Freeboard Deck = 30-53'	$\Delta = \frac{25'-0" - 11355 \text{ TONS}}{24'-0" - 10,857}$	Depth Correction ... 11.49	
Summer freeboard = 5-75'	Tons per inch immersion at summer load water line 41.65.	Deduction for superstructures ... 16.87	
Moulded draught (d) = 24-78'	$T = \frac{25'-0" - 41.66}{24'-0" - 41.37}$	Sheer correction ... 1.66	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.19 = 6 1/4	Deduction = $\frac{\Delta}{40 T}$ inches = 6.80 = 6 3/4	Round of Beam correction07	
Addition for Winter North Atlantic Freeboard (if required) = ✓		Correction for Thickness of Deck amidships ... ✓	
		Other corrections, scantlings, etc. ... ✓	
		Summer Freeboard = 69.04 ✓	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	... 13"	Tropical Fresh Water Freeboard	...
Fresh Water Line	... 6 3/4"	Fresh Water	...
Tropical Line	... 6 1/4"	Tropical	...
Winter Line below	... 6 1/4"	Winter	...
Winter North Atlantic Line	...	Winter North Atlantic	...

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

VIKARJITAM

WHITE BUILDING

R. B. V. J. J. J.

+ 100 A. I.

APPROX NOW

5900 BUILDING

30'-6"

11745

BRITISH

BOMBAY

21'-9"

400' B.F.

Freeboard length - 400'-0"

"JALASHA"

762

30-20
40' - 03'

30-23

40-64

144-67

30-45
5-52

27"

52%

6%

15%

20%

11+

[Handwritten signature]

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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Foundation