

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

GRK. REPORT N° 20463

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
"JALAKRISHNA"	159611	BRITISH. BOMBAY.	APPROX. 4970 4990.61	NOW BUILDING.	PORT GLASGOW.
Moulded Dimensions: Length 399'-0" Breadth 51'-9" Depth 30'-6"					Date of Survey WHILE BUILDING.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 11705 tons					Surveyor's Signature J. A. Jameson
Coefficient of fineness for use with Tables .765					Particulars of Classification 100 A.1.

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 30.5	(a) Where D is greater than Table depth (D-Table depth) R = (30.53-26.60)3.93 = + 11.79	Moulded Breadth (B) 51.75
Stringer plate ... 40"	(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 excess .58"
		Restricted to
		Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.58}{4} \times 4678 = -.07^{\circ}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	35.43	35.43	7'-3"	7.25	34.29	Standard Height of Superstructure 7.49
" overhang ...	1.0	.50		7.49	.48	" " R.Q.D.
R.Q.D. enclosed ...						Deduction for complete superstructure 41.93
" overhang ...						Percentage covered $\frac{S}{L} = 53.34$
Bridge enclosed ...	144.66	144.66	8'-0"		144.66	" " $\frac{S_1}{L} = 53.22$
" overhang aft ...						" " $\frac{E}{L} = 52.67$
" overhang forward ...						Percentage from Table, Line A.
F'cle enclosed ...	29.5	29.50	7'-3"	7.25	28.55	(corrected for absence of forecastle (if required))
" overhang ...	2.25	2.25		7.49	2.18	Percentage from Table, Line B.
Trunk aft ...						(corrected for absence of forecastle (if required))
" forward ...						Interpolation for bridge less than 2L (if required)
Tonnage opening aft ...						Deduction = 41.93 x 38.67 = - 16.21"
" " forward ...						
Total ...	212.84	212.34			210.16	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	49.90	1	49.90	54"	54.00	1	54.00
$\frac{1}{2}$ L from A.P. ...	22.205	4	88.82	24"	24.00	4	96.00
$\frac{2}{3}$ L " ...	5.49	2	10.98	6"	6.00	2	12.00
Amidships ...		4		0"		4	
$\frac{2}{3}$ L from F.P. ...	10.98	2	21.96	12"	12.00	2	24.00
$\frac{1}{2}$ L " ...	44.41	4	177.64	48"	48.00	4	192.00
F.P. ...	99.80	1	99.80	108"	108.00	1	108.00
Total ...			449.10				486.00

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{36.9}{18} (.75 - .2667) = -.99"$

If limited on account of midship superstructure.

Mean actual sheer aft = excess
Mean standard sheer aftMean actual sheer forward = excess
Mean standard sheer forwardLength of enclosed superstructure forward of amidships = $> .1L$ " " aft of " = $> .1L$

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 30.53 Ft.
Summer freeboard = 5.85
Moulded draught (d) = 24.68

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6.17 = $6\frac{1}{4}$

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line 11212
 $\Delta = \frac{25'-0"}{24'-0"} = \frac{11285 \text{ tons}}{10787 \text{ "}}$
Tons per inch immersion at summer load water line
 $T = \frac{25'-0"}{24'-0"} = \frac{41.5}{41.17}$
Deduction = $\frac{\Delta}{40 T}$ inches
= 6.76
= $6\frac{3}{4}$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{765 + .68}{1.36} = \frac{1.445}{1.36}$ Depth Correction ... 11.79
Deduction for superstructures ... 16.21
Sheer correction99
Round of Beam correction07
Correction for Thickness of Deck amidships ...
Other corrections, scantlings, etc. ...

Summer Freeboard = 70.16

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

Tropical Fresh Water Line above Centre of Disc ... 13"
Fresh Water Line " " ... $6\frac{3}{4}$ "
Tropical Line " " ... $6\frac{1}{4}$ "
Winter Line below " " ... $6\frac{1}{4}$ "
Winter North Atlantic Line " " ...Tropical Fresh Water Freeboard ...
Fresh Water " ...
Tropical " ...
Winter " ...
Winter North Atlantic " ...

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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.

Trade of ship INTERNATIONAL.

Names of sister ships "JALAGANGA" & JALAYAMUNA. GREENOCK FREEBOARD REPORT NOS 20117 & 20154.

Builder's name and yard number LITHGOWS LTD NOS 881 & 882.

Owners THE SCINDIA STEAM NAVIGATION CO LTD

Fee £ 15 : 0 : 0 APPROX.
To BE RENDERED WITH FIRST ENTRY.



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Foundation