

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name **"JALAPADMA"** Official Number **19138** Nationality and Port of Registry **INDIAN BOMBAY** Gross Tonnage **5104** Date of Build **Expected completion December 1950.**

Port of Survey **VIZAGAPATAM.**

Date of Survey **WHILST BUILDING.**

Surveyor's Signature **J. S. Farkin**

Particulars of Classification **100 A.1.**

Moulded Dimensions: Length **400' 0" 8.8** Breadth **51' 9"** Depth **30' 6"**

Moulded displacement at moulded draught = 85 per cent. of moulded depth **11742** tons

Coefficient of fineness for use with Tables **.765**

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 - 26.70 = 3.83	Moulded Breadth (B) 51.75
Stringer plate ... 40" 03'	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 3.93	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{51.75 \times 12}{50} = \mathbf{12.42}$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 13.0
Depth for Freeboard (D) = 30.53'		Difference .58
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.58}{4} \times 45.62 = \mathbf{.07}$

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
" overhang ...	✓	✓	✓	✓	✓
R.Q.D. enclosed ...	✓	✓	✓	✓	✓
" overhang ...	✓	✓	✓	✓	✓
Bridge enclosed ...	144.667	144.667	8' 0"	✓	144.67
" overhang aft ...	✓	✓	✓	✓	✓
" overhang forward ...	✓	✓	✓	✓	✓
F'cle enclosed ...	30.49	30.49	7' 3"	7.25	29.47
" overhang ...	2.25	2.25	✓	7.5	2.17
Trunk aft ...	✓	✓	✓	✓	✓
" forward ...	✓	✓	✓	✓	✓
Tonnage opening aft ...	✓	✓	✓	✓	✓
" " forward ...	✓	✓	✓	✓	✓
Total ...	218.05	218.05			216.95

Standard Height of Superstructure **7.50**

" " R.Q.D. **✓**

Deduction for complete superstructure **42.00**

Percentage covered $\frac{S}{L} = \frac{218.05}{400} = \mathbf{54.44}$

" " $\frac{S_1}{L} = \mathbf{54.44}$

" " $\frac{E}{L} = \mathbf{54.16}$

Percentage from Table, Line A. **✓**

(corrected for absence of forecastle (if required)) **✓**

Percentage from Table, Line B. **40.16**

(corrected for absence of forecastle (if required)) **✓**

Interpolation for bridge less than .2L (if required) **✓**

Deduction = **42.00 × 40.16 = 16.87**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	50.056	1	50.06	57"	57.0	1	57.00		
1/4 L from A.P. ...	22.244	4	89.10	25 1/3"	25.33	4	101.32		
3/8 L " ...	5.561	2	11.01	6 1/3"	6.33	2	12.66		
Amidships ...	-	4	-	-	-	4	-		
3/8 L from F.P. ...	11.122	2	22.02	12 2/3"	12.67	2	25.34		
1/4 L " ...	44.488	4	178.20	50 2/3"	50.67	4	202.68		
F.P. ...	100.11	1	100.11	114"	114.0	1	114.00		
Total ...			450.50				513.00		

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{62.50}{18} \left(.75 - \frac{2722}{4778} \right) = \mathbf{-1.66}$

If limited on account of midship superstructure. **✓**

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

Mean actual sheer aft
Mean standard sheer aft = **EXCESS**

Mean actual sheer forward
Mean standard sheer forward = **EXCESS**

Length of enclosed superstructure forward of amidships = **7.1L**

" " aft of " = **7.1L**

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD	
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line 11224	Corrected for Fresh Deck (if required)	71.67
Depth to Freeboard Deck = 30.53	$\Delta = \frac{25.0 - 11355}{10857} = \mathbf{.0023}$	Correction for coefficient $\frac{765 + .68}{1.56} = \mathbf{1.448/1.36}$	76.15
Summer freeboard = 5.75	Tons per inch immersion at summer load water line 41.65	Depth Correction ... 11.49	
Moulded draught (d) = 24.78	$T = \frac{25.0 - 41.66}{24.0 - 41.37} = \mathbf{.41}$	Deduction for superstructures ... 16.87	
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	Sheer correction ... 1.66	
Addition for Winter North Atlantic Freeboard (if required) = ✓	= 6 3/4"	Round of Beam correction07	
		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 ...	1.3"	Tropical Fresh Water Freeboard ...	5' 9"
Fresh Water Line " " ...	6 3/4"	Fresh Water " " ...	5' 2 1/4"
Tropical Line " " ...	6 1/4"	Tropical " " ...	5' 2 1/4"
Winter Line below " " ...	6 1/4"	Winter " " ...	6' 3 1/4"
Winter North Atlantic Line " " ...	✓	Winter North Atlantic " " ...	✓

Trade of ship GENERAL CARGO CARRYING.

Names of sister ships 'JALASHA', 'JALAKASHA', 'JALAPRAKASH', 'JALAPANKHI'.

Builder's name and yard number THE SCINDIA STEAM NAVIGATION CO., LTD. V.C. 105 G.I.

Owners THE SCINDIA STEAM NAVIGATION CO., LTD.

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