

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Govt. copy sent 2/12/59

Ship's Name "INDIRA" (Ex. H.M.I.S. "CALCUTTA")	Official Number	Nationality and Port of Registry INDIAN MADRAS ?	Gross Tonnage ?	Date of Build 1943.	Port of Survey Vizagapatam
Moulded Dimensions: Length 151.70' Breadth 27'-6" Depth 15'-0" <i>96% length on S.L.W.L.</i>					Date of Survey November, 1950.
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature J. S. Tatham.
Coefficient of fineness for use with Tables .68 (ACTUAL LESS THAN .68)					Particulars of Classification 100 A* with freeboard for coasting service BURMA EAST PAKISTAN, CEYLON & INDIAN COAST.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 15.00	(a) Where D is greater than Table depth (D - Table depth) R = (15.03 - 10.11) 1.167 = + 5.74" ✓	Moulded Breadth (B) 27'-6"
Stringer plate2203	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 4.92 ✓	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{27.6 \times 12}{50} = 6.6$
Sheathing on exposed deck None.	If restricted by superstructures ✓	Ship's Round of Beam = 7"
$T \left(\frac{L-S}{L} \right) =$		Difference = + .40
Depth for Freeboard (D) = 15.03.		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.40}{4} \times .8352 = -.08"$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	✓				
" overhang ...	✓				
R.Q.D. enclosed ...	✓				
" overhang ...	✓				
Bridge enclosed ...	✓				
" overhang aft ...	✓				
" overhang forward ...	✓				
F'cle enclosed ...	25'-0"	25.00	6'-6"		25.00
" overhang ...	✓				
Trunk aft ...	✓				
" forward ...	✓				
Tonnage opening aft ...	✓				
" " forward ...	✓				
Total ...	25.00	25.00			25.00

Standard Height of Superstructure	6.00 ✓
" " R.Q.D.	✓
Deduction for complete superstructure	21.17 ✓
Percentage covered $\frac{S}{L} =$	
" " $\frac{S_1}{L} =$	16.48 ✓
" " $\frac{E}{L} =$	
Percentage from Table, Line A.	8.24 ✓
(corrected for absence of forecastle (if required))	
Percentage from Table, Line B.	
(corrected for absence of forecastle (if required))	
Interpolation for bridge less than .2L (if required)	
Deduction =	21.17 x .0824 = -1.74" ✓

FROM LINE PARALLEL TO KEEL
SERVICE TRIM **7'-6"**

SHEER CORRECTION.

Note: - vessel apparently built with fall of keel - dimensions not available.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	25.17	1	25.17	71"	26.00	1	26.00
$\frac{1}{2}$ L from A.P. ...	11.20	4	44.80	38"	8.00	4	32.00
$\frac{3}{8}$ L " ...	2.77	2	5.54	15"	0	2	✓
Amidships ...	✓	4	✓	0	✓	4	✓
$\frac{3}{8}$ L from F.P. ...	5.535	2	11.07	-6"	9.00	2	18.00
$\frac{1}{2}$ L " ...	22.40	4	89.60	6"	21.00	4	14.40
F.P. ...	50.34	1	50.34	32"	87.00	1	87.00
Total ...		✓	226.52			✓	307.00

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{80.48}{18} (.75 - .0824) = 2.98"$ ✓

If limited on account of midship superstructure. **YES** **NO ALLOWANCE** ✓

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient	15.74
Depth to Freeboard Deck = 15.03	$\Delta =$		15.74
Summer freeboard = 2.02	Tons per inch immersion at summer load water line	Depth Correction ...	
Moulded draught (d) = 13.02	T =	Deduction for superstructures ...	
Deduction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40 T}$ inches	Sheer correction ...	
Winter freeboard = $\frac{d}{4}$ inches = 3.25 = 3$\frac{1}{4}$"	d/4 = 3$\frac{1}{4}$" ✓	Round of Beam correction ...	
Addition for Winter North Atlantic Freeboard (if required) = NOT ASSIGNED.		Correction for Thickness of Deck amidships ...	
		Other corrections, scantlings, etc. corresponding to a SUMMER MOULDED DRAUGHT of 13'-0"	
			10.33
			1.82
			+ 8.51
			Summer Freeboard = 24.25 ✓

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

Tropical Fresh Water Line above Centre of Disc	... 6$\frac{1}{2}$" ✓
Fresh Water Line	... 3$\frac{1}{4}$" ✓
Tropical Line	... 3$\frac{1}{4}$" ✓
Winter Line below	... NOT ASSIGNED ✓
Winter North Atlantic Line	... NOT ASSIGNED ✓

Tropical Fresh Water Freeboard	2'-0$\frac{1}{4}$" ✓
Fresh Water	1'-5$\frac{3}{4}$" ✓
Tropical	1'-9" ✓
Winter	NOT ASSIGNED ✓
Winter North Atlantic	NOT ASSIGNED ✓

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 General cargo - coasting service - Burma, East Pakistan, Bay of Bengal & the Indian Coast.

Names of sister ships none (originally Basset Type Frigate).

Builder's name and yard number Hooghly Docking & Engineering Co., Ltd. N.C.P. Co.

Owners Andhra Trading Co., Bezwada, S. India.

Fee £.....



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Foundation