

## Lloyd's Register of Shipping.

Index. No. 39784  
(For London Office only).

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>"SEA KING"</b> <b>JAJAMANJARI</b>	Official Number <b>174200</b>	Nationality and Port of Registry <b>INDIAN</b> <b>BOMBAY.</b>	Gross Tonnage <b>7200</b> <b>7210.</b>	Date of Build <b>1944.</b>	Port of Survey <b>HALIFAX, N.S.</b>
Moulded Dimensions: Length <b>417.73 ft</b> Breadth <b>56.90 ft.</b> Depth <b>37.33 ft.</b> (To CR. OF RUDDER STOCK)					Date of Survey <b>11TH JULY, 1948.</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature <b>R. In. Scott.</b>
Coefficient of fineness for use with Tables <b>.768.</b>					Particulars of Classification <b>100 A1 WITH FREEBOARD. (CONTEMPLATED).</b>
Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth ... <b>37.33</b>		(a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(37.39 - 27.85) 3 = + 28.62"$ <b>9.54</b>		Moulded Breadth (B) <b>56.90 ft.</b>	
Stringer plate ... <b>.06</b>		(b) Where D is less than Table depth (if allowed) (Table depth - D) R = <b>✓</b>		Standard Round of Beam = $\frac{B \times 12}{50} =$ <b>13.65</b>	
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$		If restricted by superstructures <b>✓</b>		Ship's Round of Beam EQUIV. = <b>14.301</b>	
Depth for Freeboard (D) = <b>✓ 37.39.</b>				Difference <b>+ .36</b>	
				Restricted to	
				Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{.36}{4} = - .09"$	

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...					

Standard Height of Superstructure **7.5'**

" " R.Q.D. **✓**

Deduction for complete superstructure **42"**

Percentage covered  $\frac{S}{L} =$

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

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

Percentage from Table, Line A.  
(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 = **NIL.**

## SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	Mean actual sheer aft =
A.P. ...	51.77	1	51.77	54.12	54.12	1	54.12	Mean standard sheer aft
1/4 L from A.P. ...	23.04	4	92.16	24.00	24.00	4	96.00	Mean actual sheer forward =
1/4 L " ...	5.695	2	11.39	5.00	10.500	2	10.00	Mean standard sheer forward
Amidships ...	-	4	-	-	-	4	-	Length of enclosed superstructure forward of amidships =
1/4 L from F.P. ...	11.39	2	22.78	11.75	11.75	2	23.50	" " aft of " =
1/4 L " ...	46.08	4	184.32	47.75	47.75	4	191.00	
F.P. ...	103.55	1	103.55	105.37	105.37	1	105.37	
Total ...			465.97				479.99	

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{14.02}{18} \times .75 = - .58"$

If limited on account of midship superstructure. **NO - FLUSH DECK**

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)	83.34
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient. $\frac{.768 + .68}{1.36} = 1.448 / 1.36$	88.74
Depth to Freeboard Deck = <b>37.39</b>	$\Delta =$ <b>14250</b>	Depth Correction ... <b>28.62</b>	
Summer freeboard = <b>9.73</b>	Tons per inch immersion at summer load water line	Deduction for superstructures ... <b>.58</b>	
Moulded draught (d) = <b>27.66</b>	$T =$ <b>48.72</b>	Sheer correction ... <b>.09</b>	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <b>6.91 = 7"</b>	Deduction = $\frac{\Delta}{40T}$ inches = <b>7.31</b>	Round of Beam correction ... <b>-</b>	
Addition for Winter North Atlantic Freeboard (if required) = <b>✓</b>	<b>= 7 1/4"</b>	Correction for Thickness of Deck amidships ... <b>-</b>	
		Other corrections, scantlings, etc. ... <b>-</b>	
		28.62 - .67 + 27.95	
		Summer Freeboard = <b>116.69</b>	

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

Tropical Fresh Water Line above Centre of Disc ... <b>14 1/4"</b>	Tropical Fresh Water Freeboard ... <b>9' - 8 3/4"</b>
Fresh Water Line " " ... <b>7 1/4"</b>	Fresh Water " " ... <b>8' - 6 1/2"</b>
Tropical Line " " ... <b>7"</b>	Tropical " " ... <b>9' - 1 1/2"</b>
Winter Line below " " ... <b>7"</b>	Winter " " ... <b>9' - 1 3/4"</b>
Winter North Atlantic Line " " ... <b>✓</b>	Winter North Atlantic " " ... <b>10' - 3 3/4"</b>



Sea King

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.

$$\begin{array}{rcl} 19.0 \times 14 & = & 266.00 \\ 18.95 \times 14 & = & 265.30 \\ \hline & & 531.30 \end{array}$$

$$\frac{531.3}{56.9} \times \frac{3}{2} = 14.01'' \quad \text{Equivalent camber}$$

Trade of ship.....INTERNATIONAL.

Names of sister ships.....✓

Builder's name and yard number.....BETHLEHEM FAIRFIELD SHIPYARD, INC.

Owners.....SCINDIA STEAM NAVIGATION CO. LTD.

Fee & Exps. \$93.00.



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