

Rpt. 11 (Comp.)  
FORT ST. JAMES  
36901  
ETC.

# AMENDED COMPUTATION.

## LLOYD'S REGISTER OF SHIPPING UNITED WITH THE BRITISH CORPORATION REGISTER SURVEYS FOR FREEBOARD (COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received .....  
Index No. ....  
Govt. Copy .....  
Owners CII .....  
Date of Survey 17/9/52.

Ship's Name <b>JAG VIJAY.</b>	Official Number	Nationality and Port of Registry <b>INDIAN BOMBAY</b>	Gross Tonnage	Date of Build
Moulded Dimensions: Length <b>417.35</b> Breadth <b>56.90</b> Depth <b>37.33</b> .				
Freeboard Length ..... <b>16600</b> tons				
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) <b>771</b>				
Coefficient of fineness for use with Tables.				

Port of Survey .....  
Date of Survey **17/9/52.**  
Surveyor's Signature .....  
Particulars of Classification **+100A1.**

DEPTH FOR FREEBOARD (D).	
Moulded depth	37.33
Stringer plate	.05
Wood Sheathing on exposed deck	
$T \left( \frac{L-S}{L} \right) =$	
Depth for Freeboard (D) =	37.38

DEPTH CORRECTION.	
(a) Where D is greater than Table depth (D-Table depth) R =	
(37.38-27.82)3 = +28.68	
(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	
If restricted by superstructures	

ROUND OF BEAM CORRECTION.	
Moulded Breadth (B)	56.90
Standard Round of Beam = $\frac{B \times 12}{50}$	13.66
Ship's Round of Beam	14
Difference	.34
Restricted to	
Correction = $\frac{\text{Diff}^*}{4} \times \left( 1 - \frac{S_1}{L} \right)$	.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	7.50
" " R.Q.D.	
Deduction for complete superstructure	42.00
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
A.P.	51.73	1	51.73	55.00	55.00	1	55.00
$\frac{1}{2}$ L from A.P.	13.02	4	92.08	23.25	23.25	4	23.25
$\frac{3}{4}$ L	5.69	2	11.38	6.50	6.50	2	6.50
Amidships	0	4	0	0	0	4	0
$\frac{3}{4}$ L from F.P.	11.38	2	22.76	11.63	11.63	2	23.26
$\frac{1}{2}$ L	46.04	4	184.16	46.75	46.75	4	187.00
F.P.	103.47	1	103.47	105.00	105.00	1	105.00
Total			465.58				476.26

Mean actual sheer aft =  
Mean standard sheer aft =

Mean actual sheer forward =  
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =  
" " aft of " =

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{10.68}{18} \times .75 = -.45$   
If limited on account of midship superstructure.

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

### Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck	=	37.38
Summer freeboard	=	9.79
Moulded draught (d)	=	27.59
Keel allowance	=	
Extreme draught	=	
Deduction for Tropical freeboard and addition for =		
Winter freeboard = $\frac{d}{4}$ inches =		6.88 = 7"
Addition for Winter North Atlantic Freeboard (if required) =		not assigned.

### Deduction for Fresh Water.

Displacement in salt water at summer load water line	
$\Delta =$	
Tons per inch immersion at summer load water line	
T =	
Deduction = $\frac{\Delta}{40 T}$ inches	
=	7 1/4"
as previously assigned.	

TABULAR FREEBOARD corrected for Flush Deck (if required)  
Correction for coefficient  $\frac{76.95 + 6.26}{1.36} = 1.45$

	+	-
Depth Correction	28.68	
Deduction for superstructures		.45
Sheer correction		.09
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc. to correspond to a summer moulded draught of 27.60 (actual 27.59)	.58	
Summer Freeboard =	29.26	54 + 28.72 = 117.50

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

Tropical Fresh Water Line above Centre of Disc	14 1/4"
Fresh Water Line	7 1/4"
Tropical Line	7"
Winter Line below	7"
Winter North Atlantic Line	

Tropical Fresh Water Freeboard	9' - 9 1/2"
Fresh Water	8' - 7 1/4"
Tropical	9' - 2 1/4"
Winter	9' - 2 1/2"
Winter North Atlantic	10' - 4 1/2"