

WITH TONNAGE OPENING

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

 Index No. **36439**
 (For London Office only.)

Ship's Name AMER SHAM JANETA	Official Number 168647	Nationality and Port of Registry British BOMBAY.	Gross Tonnage 1940	Date of Build 1940	Port of Survey 6.12.46
Moulded Dimensions: Length 425.6 Breadth 56.5 Depth 29.08					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 12950 tons					Particulars of Classification +100A1 w. f. l. d.
Coefficient of fineness for use with Tables 763					

DEPTH FOR FREEBOARD (D). Moulded depth ... 29.08 Stringer plate03 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ — Depth for Freeboard (D) = 29.11	DEPTH CORRECTION. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(29.11 - 28.37) \times 3 = +2.22$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ — If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) 56.5' Standard Round of Beam = $\frac{B \times 12}{50} =$ 13.56" Ship's Round of Beam = 13.50" Difference .06" Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right) =$ $\frac{.06}{4} \times .0058 = \text{Neg.}$
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DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	41.10	41.10		—	41.10
„ overhang25	.12			.12
Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...	379.50	379.50		—	379.50
„ overhang aft ...					
„ overhang forward ...					
Fore enclosed ...					
„ overhang ...					
Trunk aft ...		1/2 2.00			
„ forward ...					
Tonnage opening aft ...	4.75	2.43			2.43
„ „ forward ...					
Total ...	425.60	423.15			423.15

Standard Height of Superstructure **7.5'**
 „ „ R.Q.D. **42.00"**
 Deduction for complete superstructure
 Percentage covered $\frac{S}{L} =$ **100.00**
 „ „ $\frac{S_1}{L} =$ **99.42**
 „ „ $\frac{E}{L} =$ **99.42**
 Percentage from Table, Line A. **—**
 (corrected for absence of forecastle (if required))
 Percentage from Table, Line B. **99.28**
 (corrected for absence of forecastle (if required))
 Interpolation for bridge less than .2L (if required) **—**
 Deduction = **$42.00 \times .9928 = 41.70$**

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	52.56	1	52.56	63.0	78.00	1	78.00
1/2 L from A.P. ...	23.39	4	93.56	27.5	34.71	4	138.84
3/4 L „ ...	5.78	2	11.56	6.5	8.58	2	17.16
Amidships ...	—	4	—	—	—	4	—
3/8 L from F.P. ...	11.56	2	23.12	12.75	15.18	2	30.36
1/4 L „ ...	46.78	4	187.12	49.75	61.41	4	245.64
F.P. ...	105.12	1	105.12	123	138.00	1	138.00
Total ...			473.04	+15			648.00

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) =$ **$\frac{174.96}{18} \times .25 = -2.43$**
 If limited on account of midship superstructure. **—**
 If limited to maximum allowance of 1 1/2 ins. per 100 ft. **—**

Mean actual sheer aft = **> 1**
 Mean standard sheer aft = **> 1**
 Mean actual sheer forward = **> 1**
 Mean standard sheer forward = **> 1**
 Length of enclosed superstructure forward of amidships = **105.5**
 „ „ aft of „ = **1**

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 29.11 Summer freeboard = 3.54 Moulded draught (d) = 25.57 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.39 = 6 1/2 Addition for Winter North Atlantic Freeboard (if required) = —	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 13531 Tons per inch immersion at summer load water line $T =$ 48.9 Deduction = $\frac{\Delta}{40 T}$ inches = 6.92 = 7"	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient 763 + 68 = 1443 / 136 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>+</th> <th>—</th> </tr> <tr> <td>Depth Correction</td> <td>2.22</td> <td>—</td> </tr> <tr> <td>Deduction for superstructures</td> <td>—</td> <td>41.70</td> </tr> <tr> <td>Sheer correction</td> <td>—</td> <td>2.43</td> </tr> <tr> <td>Round of Beam correction</td> <td>—</td> <td>—</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>—</td> <td>—</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td>—</td> <td>—</td> </tr> <tr> <td></td> <td>2.22</td> <td>44.13</td> </tr> </table> Summer Freeboard = 42.49		+	—	Depth Correction	2.22	—	Deduction for superstructures	—	41.70	Sheer correction	—	2.43	Round of Beam correction	—	—	Correction for Thickness of Deck amidships	—	—	Other corrections, scantlings, etc.	—	—		2.22	44.13
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc ... 13 1/2"	Tropical Fresh Water Freeboard ... 2' - 5"
Fresh Water Line „ „ ... 7 1/2"	Fresh Water „ „ ... 2' - 11 1/2"
Tropical Line „ „ ... 6 1/2"	Tropical „ „ ... 3' - 0"
Winter Line below „ „ ... 6 1/2"	Winter „ „ ... 4' - 1"
Winter North Atlantic Line „ „ ... —	Winter North Atlantic „ „ ... —