

FOR SCANTLING PURPOSES.

Rpt. C.11.

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index. No. \_\_\_\_\_  
(For London Office only.)

having C.S.S. Computation of Freeboard for Steamer, Sailing Ship, Tanker

(Type of Superstructures.)

Ship's Name OROYA Nationality and Port of Registry \_\_\_\_\_ Gross Tonnage \_\_\_\_\_ Date of Build \_\_\_\_\_

Moulded Dimensions: Length 525 Breadth 62.5 Depth 35.75 ✓

Moulded displacement at moulded draught = 85 per cent. of moulded depth \_\_\_\_\_ tons

Coefficient of fineness for use with Tables .465 ✓

Port of Survey \_\_\_\_\_

Date of Survey 11/11/38

Name of Surveyor \_\_\_\_\_

Particulars of Classification \_\_\_\_\_

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... .. <u>35.75</u> ✓	(a) Where D is greater than Table depth (D - Table depth) R = <u>(35.75 - 35.00) 3 = + 2.37</u> ✓	Moulded Breadth (B) <u>62.5</u>
Stringer plate ... .. <u>84</u> ✓	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = <u>.49</u> ✓	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ ✓	If restricted by superstructures ✓	Ship's Round of Beam = <u>Standard</u>
Depth for Freeboard (D) = <u>35.79</u> ✓		Difference _____
		Restricted to _____
		Correction = $\frac{\text{Diff}^*}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <u>Nil</u>

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ... ..						Standard Height of Superstructure <u>7.5</u> ✓
„ overhang ... ..						„ „ R.Q.D. <u>✓</u>
R.Q.D. enclosed ... ..						Deduction for complete superstructure <u>42.00</u> ✓
„ overhang ... ..						Percentage covered $\frac{S}{L} =$ <u>100.00</u>
Bridge enclosed ... ..						„ „ $\frac{S_1}{L} =$ <u>100.00</u>
„ overhang aft ... ..						„ „ $\frac{E}{L} =$ <u>100.00</u> ✓
„ overhang forward ... ..						Percentage from Table, Line A. <u>100.00</u> ✓
Forecastle enclosed ... ..						(corrected for absence of fore-castle (if required)) ✓
„ overhang ... ..						Percentage from Table, Line B. ✓
Trunk aft ... ..						(corrected for absence of fore-castle (if required)) ✓
„ forward ... ..						Interpolation for bridge less than .2L (if required) ✓
Tonnage opening aft ... ..						Deduction = <u>1.00 x 42 = - 42</u> ✓
„ „ forward ... ..						
Total ... ..						

### SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ... ..		1					1		
$\frac{1}{2}$ L from A.P. ... ..		4					4		
$\frac{3}{8}$ L „ ... ..		2					2		
Amidships ... ..		4					4		
$\frac{3}{8}$ L from F.P. ... ..		2					2		
$\frac{1}{2}$ L „ ... ..		4					4		
F.P. ... ..		1					1		
Total ... ..									

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( 75 - \frac{S}{2L} \right) =$   $-\frac{1}{2}$

If limited on account of midship superstructure.

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

### Deduction for Tropical Freeboard.

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

Depth to Freeboard Deck = 35.79 ✓

Summer freeboard = 6.35 ✓

Moulded draught (d) = 29.44 ✓

### Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches =

### Addition for Winter North Atlantic Freeboard (if required) =

### 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

### TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction ... ..	<u>2.37</u>	
Deduction for superstructures ... ..		<u>42.00</u> ✓
Sheer correction ... ..		<u>.50</u> ✓
Round of Beam correction ... ..		
Correction for Thickness of Deck amidships ... ..		
Other corrections, scantlings, etc. ... ..		
	<u>2.37</u>	<u>42.50</u>

Summer Freeboard = 76.19 ✓

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

Tropical Fresh Water Line above Centre of Disc ... ..	Tropical Fresh Water Freeboard ... ..
Fresh Water Line „ „ ... ..	Fresh Water „ „ ... ..
Tropical Line „ „ ... ..	Tropical „ „ ... ..
Winter Line below „ „ ... ..	Winter „ „ ... ..
Winter North Atlantic Line „ „ ... ..	Winter North Atlantic „ „ ... ..