

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER~~)

For LONDON OFFICE ONLY

Received

Index No.

Govt. Copy

Owners C11

Ship's Name UNITED SIX	Official Number	Nationality and Port of Registry PAKISTAN CHITTAGONG	Gross Tonnage 210.	Date of Build 3/64	Port of Survey KARACHI
Moulded Dimensions: Length 106'-11" Breadth 24'-0" Depth 9'-0"					Date of Survey 15. MARCH 1964
Freeboard Length To CENTRE OF RUDDER STOCK.					Surveyor's Signature K. S. B. Rahman for J. MACLEOD.
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 470.2 488 tons					Particulars of Classification #100 A
Coefficient of fineness for use with Tables 0.87					FOR SERVICE AT CHITTAGONG

DEPTH FOR FREEBOARD (D). Moulded depth ... 9.00 Stringer plate 375"03 Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 9.03.	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = $(9.03 - 7.13) \cdot 822 = +1.56"$ (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) Standard Round of Beam = $\frac{B \times 12}{50} = 5.7"$ Ship's Round of Beam Edun = $\frac{4.0 \times 3.0}{1.7} = 2.7"$ Difference Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right) = +0.62"$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	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 _____

" " R.Q.D. _____

Deduction for complete superstructure _____

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

" " $\frac{S_i}{L} =$ _____

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

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. ...	20.62	1		20.62	24"	24.00	1		24.00
1/4 L from A.P. ...	9.21	4		36.84	0	0	4		0
1/2 L " ...	2.27	2		4.54	0	0	2		0
Amidships ...	0	4		0	0	0	4		0
3/4 L from F.P. ...	4.54	2		9.08	0	0	2		0
3/4 L " ...	18.42	4		73.68	0	0	4		0
F.P. ...	41.38	1		41.38	24"	24.00	1		24.00
Total ...				186.21					48.00

Mean actual sheer aft
Mean standard sheer aft = **DEFICIENT**

Mean actual sheer forward
Mean standard sheer forward = **DEFICIENT**

Length of enclosed superstructure forward of amidships = } **DEFICIENT**
 " " aft of " = } **SHEER**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{138.21}{18} \times .75 = +5.75"$
 If limited on account of midship superstructure. **7.67**

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

Deduction for Tropical Freeboard.

Depth to Freeboard Deck = **9.03**
 Summer freeboard = **1.83**
 Moulded draught (d) = **7.20**
 Keel allowance =
 Extreme draught =
 Deduction for Tropical freeboard and addition for =
 Winter freeboard = $\frac{d}{4}$ inches = **2**

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 460$ LONG TONS.
 Tons per inch immersion at summer load water line
 $T = 5.95$ LONG TONS.
 Deduction = $\frac{\Delta}{40 T}$ inches
 = **1.93"**
 = **2"**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{0.87 + 0.68}{1.36} = 1.55/1.36$

Depth Correction ... **1.56** -
 Deduction for superstructures ... -
 Sheer correction ... **5.75** -
 Round of Beam correction ... **0.68** -
 Correction for Thickness of Deck amidships ... -
 Other corrections, scantlings, etc. ... -

7.99 - + 7.99

Summer Freeboard = **22.00**

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

Tropical Fresh Water Line above Centre of Disc ... **4"**
 Fresh Water Line " " ... **2"**
 Tropical Line " " ... **2"**
 Winter Line below " " ...
 Winter North Atlantic Line " " ...

Tropical Fresh Water Freeboard
 Fresh Water
 Tropical
 Winter
 Winter North Atlantic

1' - 10" FOR SERVICE.

1' - 10"

1' - 10"

1' - 10"

1' - 10"

1' - 10"

1' - 10"

1' - 10"

1' - 10"

1' - 10"

11 6 FEB 1965

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 CHITTAGONG HARBOUR LIMITS.

Names of sister ships 50542 50119
UNITED ONE UNITED TWO

Builder's name and yard number CARSTAIRS AND CUMMING LTD. YARD NO 6 50625

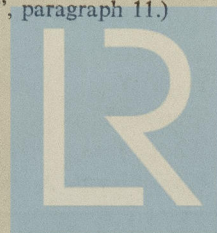
Owners UNITED ORIENTAL STEAMSHIP CO. LTD. KARACHI.

Fee Rs 624/-

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950", paragraph 11.)

MIDSHIP SECTION

DECK PLATING + HATCH COAMINGS. }



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Foundation