

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received
 Index No.
 Govt. Copy
 Owners C11.....

Ship's Name "UNITED ONE"	Official Number	Nationality and Port of Registry PAKISTANI CHITTAGONG	Gross Tonnage	Date of Build	Port of Survey KARACHI
Moulded Dimensions: Length 104'-0" Breadth 24'-8" Depth 9'-0"					Date of Survey WHILST BUILDING
Freeboard Length To CENTRE OF RUDDER STOCK					Surveyor's Signature <i>MacLeod</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth 530 tons					Particulars of Classification +100A (FOR SERVICE AT CHITTAGONG) (CONTINGENT)
Coefficient of fineness for use with Tables .945 <i>Cup (deck level) = .911</i> <i>SEE REMARKS ON SK PLAN.</i>					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 9'-0"	(a) Where D is greater than Table depth (D-Table depth) R = (9'-03"-6'-93") 0.800 = +1.68"	Moulded Breadth (B) _____
Stringer plate 03 3/8"	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = _____	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{24 \times 12}{50} = 5.76$ 5.92
Wood Sheathing on exposed deck _____	If restricted by superstructures _____	Ship's Round of Beam = 3" 3.00
$T \left(\frac{L-S}{L} \right) =$ 9.03		Difference 2.92"
Depth for Freeboard (D) = 9'-0 3/8"		Restricted to _____
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{2.92^2}{4} \times \left(1 - \frac{3}{24}\right) = 0.73$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	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					

NONE

Standard Height of Superstructure _____ Nil.
" " R.Q.D. _____ Nil.
Deduction for complete superstructure _____ Nil.
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	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.	20.40	1	20.40	0.5'	6.0	1	6.0
1/4L from A.P.	9.08	4	36.32	0	0	4	0
3/4L "	2.24	2	4.48	0	0	2	0
Amidships	0	4	0	0	0	4	0
3/4L from F.P.	4.49	2	8.98	0	0	2	0
1/4L "	18.16	4	72.64	0	0	4	0
F.P.	40.80	1	40.80	0.5'	6.0	1	6.0
Total			183.62				12.00

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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{171.62}{18} \times .75 = +7.14"$
 If limited on account of midship superstructure. If limited to maximum allowance of 1 1/2 ins. per 100ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 9.03 Ft. ✓ Summer freeboard = 1.98 ✓ Moulded draught (d) = 7.05 ✓ Keel allowance = _____ Extreme draught = _____ Deduction for Tropical freeboard and addition for = _____ Winter freeboard = $\frac{d}{4}$ inches = 1.76 = 1 3/4" Addition for Winter North Atlantic Freeboard (if required) = NOT REQUIRED.	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 6.11 \frac{1}{2} - 480$ tons Tons per inch immersion at summer load water line $T = 5.75$ Deduction = $\frac{\Delta}{40 T}$ inches = $\frac{480}{40 \times 5.75}$ = 2.08 = 2"	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.945 + .680}{1.36} \times \frac{1.625}{1.36} =$ <table style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: right;">10.40 + 1.56</td><td style="text-align: right;">11.96</td></tr> <tr><td style="text-align: right;">9.45 + .680</td><td style="text-align: right;">14.29</td></tr> <tr><td style="text-align: right;">1.36</td><td style="text-align: right;">1.36</td></tr> <tr><td style="text-align: right;">+</td><td style="text-align: right;">-</td></tr> <tr><td style="text-align: right;">Depth Correction</td><td style="text-align: right;">1.68 ✓</td></tr> <tr><td style="text-align: right;">Deduction for superstructures</td><td style="text-align: right;">-</td></tr> <tr><td style="text-align: right;">Sheer correction</td><td style="text-align: right;">7.14 ✓</td></tr> <tr><td style="text-align: right;">Round of Beam correction</td><td style="text-align: right;">0.73 ✓</td></tr> <tr><td style="text-align: right;">Correction for Thickness of Deck amidships</td><td style="text-align: right;">-</td></tr> <tr><td style="text-align: right;">Other corrections, scantlings, etc.</td><td style="text-align: right;">-</td></tr> <tr><td style="text-align: right;">9.55</td><td style="text-align: right;">9.55</td></tr> </table> Summer Freeboard = 23.84"	10.40 + 1.56	11.96	9.45 + .680	14.29	1.36	1.36	+	-	Depth Correction	1.68 ✓	Deduction for superstructures	-	Sheer correction	7.14 ✓	Round of Beam correction	0.73 ✓	Correction for Thickness of Deck amidships	-	Other corrections, scantlings, etc.	-	9.55	9.55
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc ... 3 3/4"	Tropical Fresh Water Freeboard 1-11 3/4" "FOR SERVICE"
Fresh Water Line " " ... 2"	Fresh Water " " ... 1-8"
Tropical Line " " ... 1 3/4"	Tropical " " ... 1-9 3/4"
Winter Line below " " ... NOT ASSIGNED	Winter " " ... NOT ASSIGNED
Winter North Atlantic Line " " ... NOT ASSIGNED	Winter North Atlantic " " ... NOT ASSIGNED

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 FOR SERVICE AT CHITTAGONG

Names of sister ships NONE

Builder's name and yard number CARSTAIRS & CUMMINGS - YARD N° 1

Owners UNITED ORIENTAL STEAMSHIP CO LTD

Fee £ : : _____

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

Approved: Midship Section ✓
Deck Plan, Hatch Coamings & Girders ✓



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Foundation