

114 OCT 1963

UNITED TWO
50119
Rpt. C.11 (Comp.)

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 C11

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
"UNITED NINE"	✓	PAKISTANI CHITTAGONG	205	10,63

Port of Survey KARACHI

Date of Survey OCTOBER 1963

Surveyor's Signature MacLeod

Particulars of Classification Contemplated
+100A DUMB BARGE for limited service

Moulded Dimensions: Length 114'-0" Breadth 24'-0" Depth 9'-0"
Freeboard Length 106'-5"
Moulded displacement at moulded draught = 85 per cent. of moulded depth 492 tons
(excluding bossing)
Coefficient of fineness for use with Tables .881

DEPTH FOR FREEBOARD (D).

Moulded depth ... 9'-0"
Stringer plate ... 0.03'
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 =
 $(9.03 - 7.09) \times .819 = +1.59"$
(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) 24.00
Standard Round of Beam = $\frac{B \times 12}{50} = \frac{5.7}{50} = 5.76$
Ship's Round of Beam Eqw. = 4.0 3.00
Difference 1.7 -2.76
Restricted to
Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right) = \frac{2.76}{4} = +0.69"$

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 ...					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

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. ...	<u>20.64</u>	1			<u>24"</u>	<u>24</u>	1		<u>24</u>
$\frac{1}{4}$ L from A.P. ...		4			<u>0</u>	<u>0</u>	4		<u>0</u>
$\frac{2}{4}$ L " ...		2			<u>0</u>	<u>0</u>	2		<u>0</u>
Amidships ...	<u>0</u>	4		<u>0</u>	<u>0</u>	<u>0</u>	4		<u>0</u>
$\frac{3}{4}$ L from F.P. ...		2			<u>0</u>	<u>0</u>	2		<u>0</u>
$\frac{1}{4}$ L " ...		4			<u>0</u>	<u>0</u>	4		<u>0</u>
F.P. ...		1			<u>24"</u>	<u>24</u>	1		<u>24</u>
Total ...				<u>185.76</u>					

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{137.76}{18} \times .75 = +5.74$
If limited on account of midship superstructure. If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 9.03 Ft.
Summer freeboard = 1.83
Moulded draught (d) = 7.20
Keel allowance =
Extreme draught =
Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{4}$ inches = 1.80 = 1 3/4"

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line (7.3")
 $\Delta = 462$ tons
Tons per inch immersion at summer load water line
T = 6.00
Deduction = $\frac{\Delta}{40 T}$ inches
= 1.925
= 2"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient 1.561
1.36

Depth Correction ... 1.59 -
Deduction for superstructures ... -
Sheer correction ... 5.74 -
Round of Beam correction69 -
Correction for Thickness of Deck amidships ... -
Other corrections, scantlings, etc. ... -

+	-
<u>1.59</u>	
<u>5.74</u>	
<u>.69</u>	
<u>8.02</u>	

Summer Freeboard = 22.07

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

Tropical Fresh Water Line above Centre of Disc ... 3 3/4"
Fresh Water Line " " ... 2"
Tropical Line " " ... 1 3/4"
Winter Line below " " ... -
Winter North Atlantic Line " " ... -

Tropical Fresh Water Freeboard ... 1'-6 1/4"
Fresh Water " " ... 1'-8"
Tropical " " ... 1'-6 3/4"
Winter " " ... Not assigned
Winter North Atlantic " " ... Not assigned

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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 50119 UNITED TWO/THREE/FOUR 50313 50415
Builder's name and yard number KARACHI SHIPYARD & ENGINEERING WORKS. No S/61 AEB
Owners UNITED ORIENTAL S.S. CO LTD
Fee £ _____

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

1 - 'MIDSHIP SECTION'



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