

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "FIRISHTA"	Official Number 191023	Nationality and Port of Registry PAKISTAN KORACHI.	Gross Tonnage 467.23.	Date of Build Built 1942 Converted 1948.	Port of Survey _____ Date of Survey 17.12.51 Surveyor's Signature _____ Particulars of Classification 100A1 with freeboard
Moulded Dimensions: Length 150'-0" BP Breadth 27'-6" Depth 15'-0" Moulded displacement at moulded draught = 85 per cent. of moulded depth 830 tons (excluding bossing) Coefficient of fineness for use with Tables 0.68 (actual length 68)					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 15'-0" Stringer plate 0'-0 1/8" Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 15'-0 3/8"	(a) Where D is greater than Table depth (D-Table depth) R = (15'-03"-10'-11") 1.167 = +5'-7 1/4" (b) Where D is less than Table depth (if allowed) (Table depth-D) R = _____ If restricted by superstructures <input checked="" type="checkbox"/>	Moulded Breadth (B) 27'-6" Standard Round of Beam = $\frac{B \times 12}{50} =$ 6.60 Ship's Round of Beam = 0'-7" Difference .40 Restricted to _____ Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.40^2}{4} \times \left(1 - \frac{.8204}{150} \right) = .08"$

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	26'-3"	26'-25"	6'-7"		26'-25"
" overhang	2'-0"	1'-00"			1'-00"
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	28'-25"	27'-25"			27'-25"

Standard Height of Superstructure **6.00**

" " R.Q.D. ☒

Deduction for complete superstructure **21.17**

Percentage covered $\frac{S}{L} =$ **18.62**

" " $\frac{S_1}{L} =$ **17.46**

" " $\frac{E}{L} =$ **17.46**

Percentage from Table, Line A. **8.98**
(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 = **21.17 x .0898 = -1.90"**

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.	25.17	1	25.17	2'-10"	34.00	1	34.00
1/2 L from A.P.	11.20	4	44.80	1'-3"	15.00	4	60.00
3/4 L "	2.77	2	5.54	0'-4"	4.00	2	8.00
Amidships	-	4	-	-	-	4	-
3/4 L from F.P.	5.535	2	11.07	0'-8"	8.00	2	16.00
1/2 L "	22.40	4	89.60	2'-3"	27.00	4	108.00
F.P.	50.34	1	50.34	4'-4"	52.00	1	52.00
Total			226.52				278.00

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 = **NIL**
" " aft of " = **NIL**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{51.48}{18} (.75 - .0931) = -1.88"$
If limited on account of midship superstructure. **Yes: No allowance** **.6569** If limited to maximum allowance of 1 1/2 ins. per 100 ft. ☒

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)																								
Depth to Freeboard Deck = 15'-03" Summer freeboard = 4'-02" Moulded draught (d) = 11'-01" Keel allowance = _____ Extreme draught = _____ Deduction for Tropical freeboard and addition for _____ Winter freeboard = $\frac{d}{4}$ inches = 2'-7 1/2" = 2 3/4 Addition for Winter North Atlantic Freeboard (if required) = 2 3/4 + 2" = 4 1/4"	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 d/4 = 2 3/4"	Correction for coefficient NIL <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr><td>Depth Correction</td><td>5'-7 1/4"</td><td>-</td></tr> <tr><td>Deduction for superstructures</td><td>-</td><td>1'-90"</td></tr> <tr><td>Sheer correction</td><td>-</td><td>-</td></tr> <tr><td>Round of Beam correction</td><td>-</td><td>.08"</td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td>-</td><td>-</td></tr> <tr><td>Other corrections, scantlings, etc.</td><td>28'-25"</td><td>-</td></tr> <tr><td>Summer Freeboard</td><td>34'-49"</td><td>1'-48"</td></tr> </table> + 32.51 Summer Freeboard = 48'-25"		+	-	Depth Correction	5'-7 1/4"	-	Deduction for superstructures	-	1'-90"	Sheer correction	-	-	Round of Beam correction	-	.08"	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	28'-25"	-	Summer Freeboard	34'-49"	1'-48"
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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	...	2 3/4
Fresh Water Line	"	2 3/4
Tropical Line	"	2 3/4
Winter Line	below	2 3/4
Winter North Atlantic Line	NOT ASSIGNED	2 3/4

Tropical Fresh Water Freeboard	3'-0 1/4"
Fresh Water	3'-0 1/4"
Tropical	3'-0 1/4"
Winter	3'-0 1/4"
Winter North Atlantic	NOT ASSIGNED

FRI 8 DEC 1951