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Rpt. C.11.

Lloyd's Register of Shipping.

Index. No. (For London Office only.)

SURVEYS FOR FREEBOARD

1899

MAY 1952

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having **FORECASTLE ONLY**

Port of Survey **KARACHI**

(Type of Superstructures.)

Date of Survey

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

FORMA

(EX. H.M.I.S. 'TRAVANCORE')

KARACHI (PAKISTAN)

191032

470.7

1941

Name of Surveyor **J. JOHNSTON**

Moulded Dimensions: Length **150'-0"** Breadth **27'-6"** Depth **15'-0"**

Moulded displacement at moulded draught = 85 per cent. of moulded depth **960** tons

Coefficient of fineness for use with Tables **68** (Actual less than .68)

Particulars of Classification
A WITH FREEBOARD FOR TOWING SERVICES ON THE COAST OF INDIA & PERSIAN GULF AND CHITTAGONG

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	15'-0"	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	27'-6"
Stringer plate	0'-0 3/8"	(15.03 - 10.11) 4.92	1.67 = + 3.74	Standard Round of Beam = $\frac{B \times 12}{50}$	0'-6.6"
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$		(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	0'-7.0"
Depth for Freeboard (D) =	15'-0 3/8"	If restricted by superstructures		Difference	0'-0.4"
				Restricted to	
				Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right)$.1 x 8273 = - .03

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"		26.05
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total	26.25	26.25			26.25

Standard Height of Superstructure	6.00'
„ „ R.Q.D.	-
Deduction for complete superstructure	21.17"
Percentage covered $\frac{S}{L} =$	
„ „ $\frac{S_1}{L} =$	17.30
„ „ $\frac{E}{L} =$	
Percentage from Table, Line A.	8.65
(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 .0865 =	- 1.83"

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P. ...	25.17	1	25.17	2'-10"	34.0	1	34.00
1/4 L from A.P. ...	11.20	4	44.80	1'-3"	15.0	4	60.00
2/4 L „ ...	2.77	2	5.54	0'-4"	4.0	2	8.00
Amidships ...	-	4	-	-	-	4	-
3/4 L from F.P. ...	5.535	2	11.07	0'-8"	8.0	2	16.00
1/4 L „ ...	22.40	4	89.60	2'-3"	27.0	4	108.00
F.P. ...	50.34	1	50.34	4'-4"	52.0	1	52.00
Total			226.52				278.00

Mean actual sheer aft = > |
Mean standard sheer aft

Mean actual sheer forward = > |
Mean standard sheer forward

Length of enclosed superstructure forward of amidships = } NIL.
„ „ aft of „ = }

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{51.48}{18} (.75 - .0865) = - 1.90$

If limited on account of midship superstructure: Yes, NIL.

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.

Depth to Freeboard Deck = 15.03
Summer freeboard = 2.02
Moulded draught (d) = 13.01

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 3.25 = 3 1/4"

Addition for Winter North Atlantic Freeboard (if required) = Not assigned

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40 T}$ inches

d/4 = 3 1/4"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient NIL.

	+	-
Depth Correction	5.74	-
Deduction for superstructures	-	1.83
Sheer correction	-	-
Round of Beam correction	-	.08
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	4.68	-
Summer moulded draught of 13'-0"	10.42	1.91
Summer Freeboard =	24.25	

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

Tropical Fresh Water Line above Centre of Disc

Fresh Water Line

Tropical Line

Winter Line

Winter North Atlantic Line below

6 3/4"

3 1/4"

3 1/4"

NOT ASSIGNED

NOT ASSIGNED

Tropical Fresh Water Freeboard

Fresh Water

Tropical

Winter

Winter North Atlantic

1.534"

1.9"

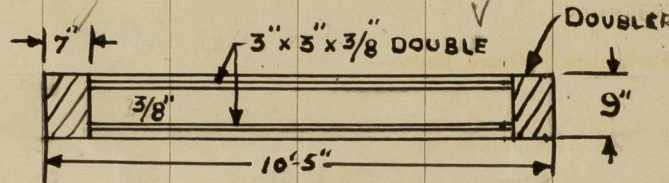
1.9"

NOT ASSIGNED

NOT ASSIGNED

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	No. 1 FORD	No. 2 AFT	No. 3 AFT						
Dimensions of Hatchway	7'-0" x 10'-5"	24" x 24"	24" x 24"						
COAMINGS	Height above Deck ... 30"	30"	30"						
	Thickness Sides ... 1/2"	3/8"	3/8"						
	Thickness Ends ... 1/2"	3/8"	3/8"						
	Stiffeners ... 9" C								
	Brackets, Stays ... 4" x 4" x 1/2"								
HATCH BEAMS	Number ... 1								
	Spacing ... 3'-5"								
	Scantling and Sketch								
	Bearing Surface ... 3"								
FORE AND AFTERS	Number ...								
	Spacing ...								
	Unsupported Lengths ...								
	Scantling* and Sketch								
	Bearing Surface ...								
HATCH COVERS	Material ... WHITE PINE	W.T. STEEL							
	Thickness ... 2 1/2"	COVER							
	How fitted ... F&A								
	Bearing Surface ... 3"								
Spacing of Cleats	24"								
Number of Tarpaulins	3								



*Are wood fore and afters steel shod at all bearing surfaces? YES
 Are battens and wedges efficient and in good condition? YES
 Are tarpaulins in good condition and in accordance with rule requirements? YES
 Are lashings provided in accordance with rule requirements? YES

Particulars of fiddle, funnel and ventilator coamings:—

E. R. VENTS 2 @ 12" COAMING 3'-0" x 5/16"
 B. R. " 2 @ 18" " 3'-0" x 5/16"
 WOOD PLUGS AND CANVAS COVERS PROVIDED.

Particulars of Flush Bunker Scuttles:— CAST IRON WITH BOYANET JOINT AND CHAIN ATTACHMENT.

Particulars of Companionways:—

ENTRANCE TO OFFICERS ACCOMMODATION AFT THROUGH DECK HOUSE
 STEEL DOOR - COAMING 1'-6" OPENING BOTH SIDES.
 ENTRANCE TO E.R. & B.R. W.T. STEEL DOOR OPERATED FROM BOTH SIDES. SILL - 18"

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

8 @ 9" COAMINGS 3'-0" x 5/16"
 2 @ 6"
 WOOD PLUGS AND CANVAS COVERS PROVIDED.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

F'CLE DECK 5 @ 2 1/2" x 1'-0" HIGH
 FREEBOARD 8 @ 2 1/2" x 2'-6" " 3'-0"

WOOD PLUGS AND CANVAS COVERS PROVIDED.

Particulars of Gangway Cargo and Coaling Ports:—

NONE

Particulars of Scuppers and Sanitary Discharge Pipes

SPACES ABOVE FREEBOARD D^K 2 @ 4"
 3 @ 1 1/2" } STORM VALVES

THERE ARE NO DISCHARGES FROM SPACES BELOW FREEBOARD DECK.

Particulars of Side Scuttles:—

UNDER F'CLE 12 @ 9" WITH DEADLIGHTS OF BRONZE.
 F'BOARD DK. 12 @ 9"

Particulars of Guard Rails:—

F'CLE - STEEL STANCHIONS & WIRE RAILS 3'-3" HIGH WITH STRETCHING SCREWS
 BULWARK 3'-3" HIGH ALL ROUND FREEBOARD DECK

Particulars of Gangways, Lifelines, etc.:—

2 FORD } 1" CIRC. WIRE ROPE
 2 AFT }

Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	125.45 138'-0" P 138'-0" S	3'-3"	3'-0" x 1'-6"	6	27 sq	25.09 21
Forward Well	125.45					
State position of each freeing port (F. and A. position and height above deck edge) } After Well:— State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—						
			3" ABOVE DECK	F	1 @ 1" ROUND BAR	1 26'-0" 2 50'-0" 3 65'-0" 4 85'-0" 5 102'-0" 6 120'-0"
Additional area where sheer is less than standard.						

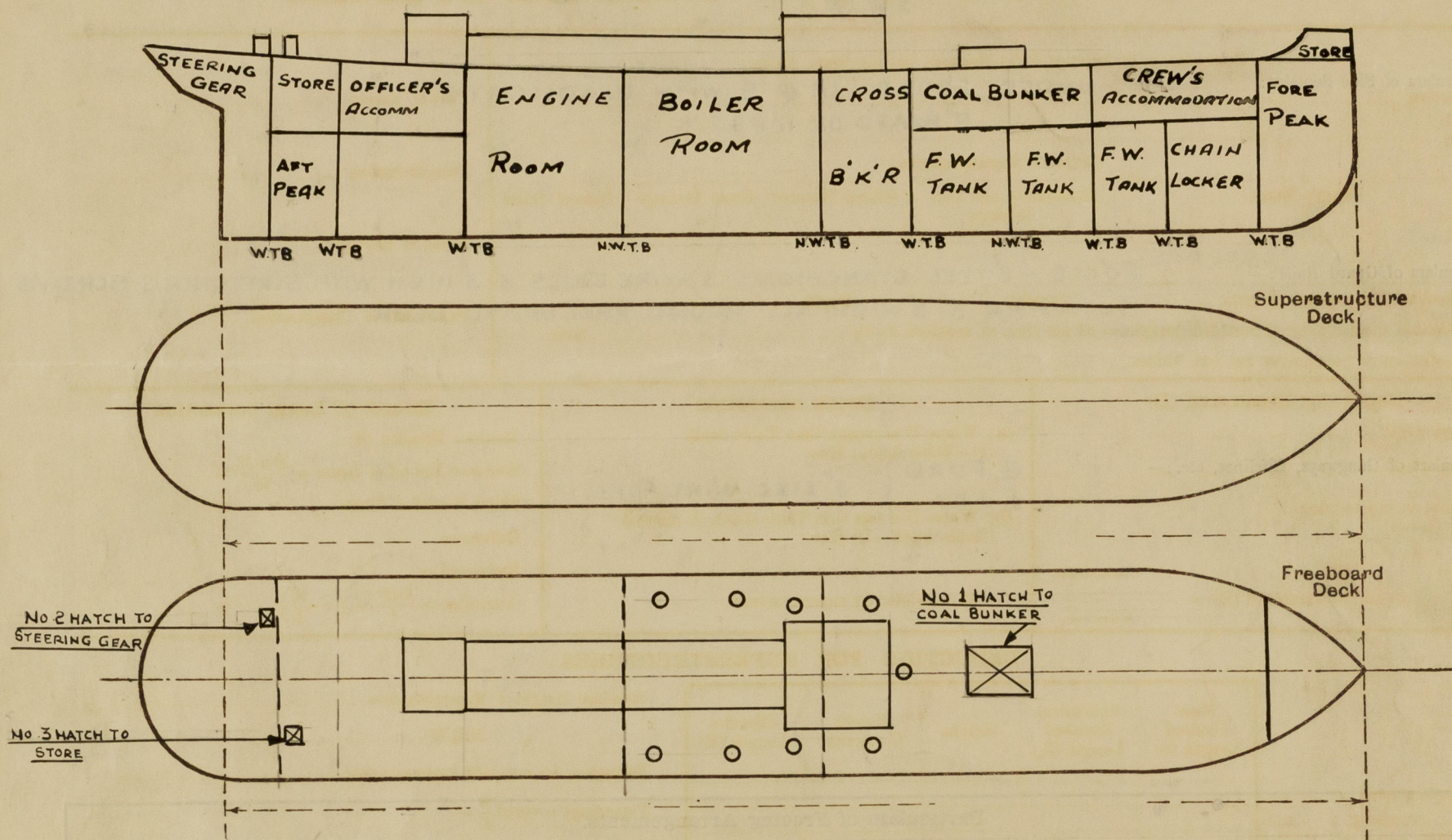
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
Raised Quarter Deck Bulkhead								
Bridge, After Bulkhead								
Bridge, Forward Bulkhead								
Forecastle Bulkhead	1/4"	1/4"	2 1/2" x 2 1/2" x 1/4"	2'-0"	9" x 9" x 1/4" BRACKETS	1 @ 4'-6" x 2'-3"	2'-6" 1'-6"	6'-7"
Trunk, Aft.								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	5/16"	E.R. 5/16" B.R. 1/4"	3" x 3" x 7/16"	2'-7"	BRACKET TOP LUG BOTTOM	ER 2 @ 4'-6" x 2'-7" B.R. 1 @ 4'-6" x 2'-7"		2'-9" AT SIDES
Exposed Machinery Casings on Superstructure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships	1/4"	1/4"	4" x 3" x 5/16"	2'-3"	BKT. T & B.	4'-9" x 2'-2"	1'-6"	F. 8'-0" A. 6'-7"

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	
Raised Quarter Deck Bulkhead	
Bridge, After Bulkhead	
Bridge, Forward Bulkhead	
Forecastle Bulkhead	STEEL WATERTIGHT DOOR MANIPULATED FROM BOTH SIDES
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	" WATERTIGHT DOOR "
Exposed Machinery Casings on Superstructure Decks	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	
Deckhouses on Flush Deck Ships	TEAK WOOD DOORS.

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:—

THE VESSEL IS CONVERTED FROM H.M. BASSETT TRAWLER TRAVANCORE
 ALL VENTILATORS & AIR PIPES PROVIDED WITH EFFICIENT PLUG AND CANVAS COVERS. ✓
 ALL OVERBOARD DISCHARGES FROM SPACES ON OR ABOVE THE FREEBOARD DECK ARE
 FITTED WITH STORM VALVES.
 THE MINIMUM DISTANCE BETWEEN THE LOWER EDGE OF SIDE SCUTTLES AND THE MEAN
 DRAFT LINE IS 22" MEASURED FROM 13'-0" DRAUGHT.
 ALL DEAD LIGHTS ARE BRONZE. ✓
 THE FREEING PORT AREA ON EACH SIDE IS 27 SQ. FT. ✓
 ALL HATCHES ARE PROVIDED WITH CLEATS, BATTENS AND TARPAULINS EXCEPT THE STEERING
 GEAR SPACE AND STORE SPACE HATCH WHICH HAVE STEEL HINGED COVERS ✓

Handwritten signature

Builder's name and yard number **GARDEN REACH WORKSHOP, CALCUTTA. - 258**
 CONVERTED BY **BRITISH INDIA ENGINEERING WORKS, KARACHI.**

Names of sister ships

Owners **EAST & WEST STEAMSHIP CO., KEAMARI, PAKISTAN.**

Fee **Rs 375/-0-0**

Received by me



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Foundation