

# LLOYD'S REGISTER OF SHIPPING

Index No. \_\_\_\_\_  
(For London Office only.)

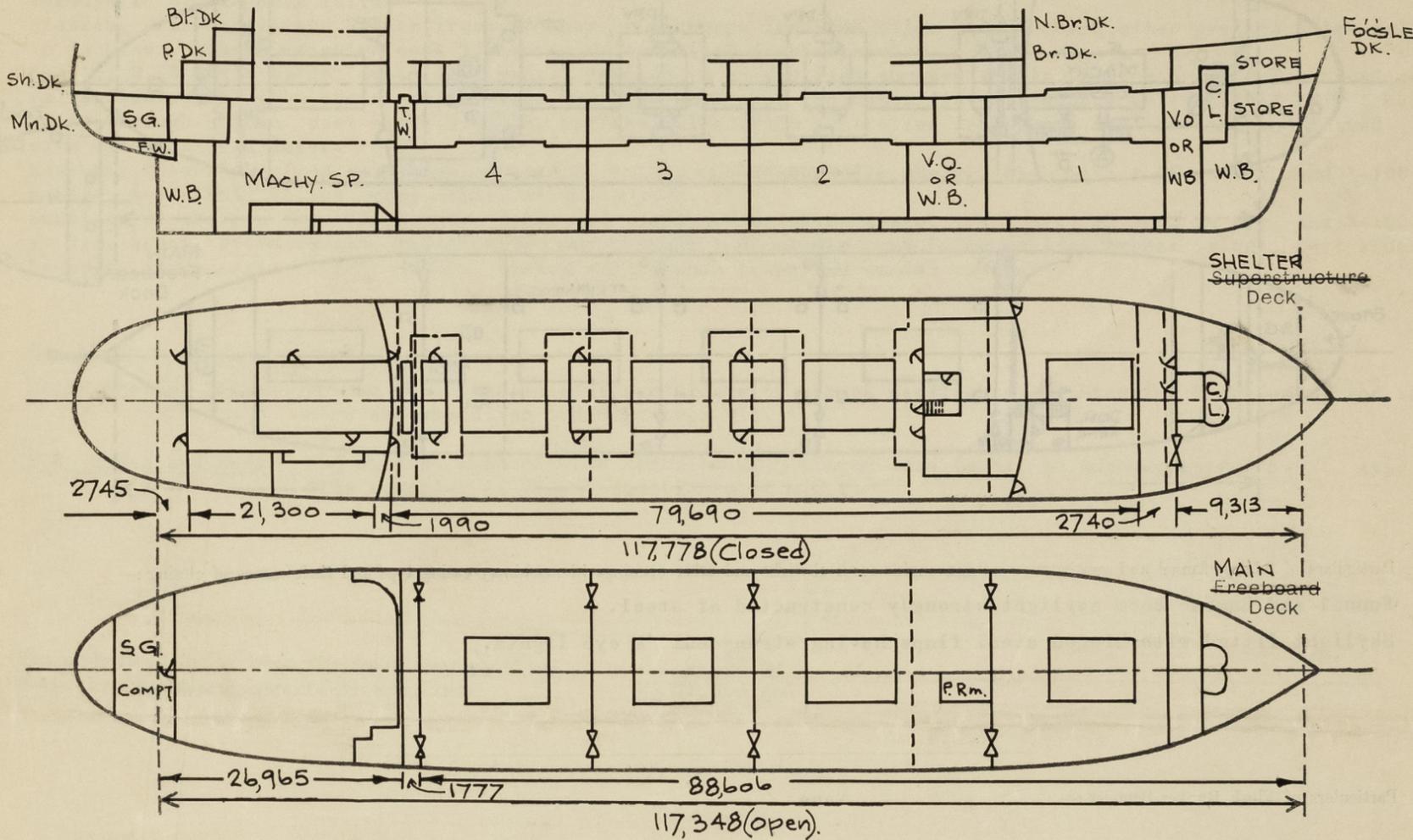
UNITED WITH THE BRITISH CORPORATION REGISTER

## SURVEYS FOR FREEBOARD.

(CONDITIONS OF ASSIGNMENT.)

Ship's Name..... "PARANAGUA"..... Port of Survey..... Helsingfors (Helsinki)  
 Official Number..... Surveyor's Signature..... W.M.S. McCulloch.  
 Nationality and Port of Registry..... Brazilian, Rio de Janeiro..... Date of Survey..... During construction

Disposition and dimensions of superstructures, trunks, deckhouses, machinery casings and wood sheathing to be inserted in the diagrams and tabular statement :-

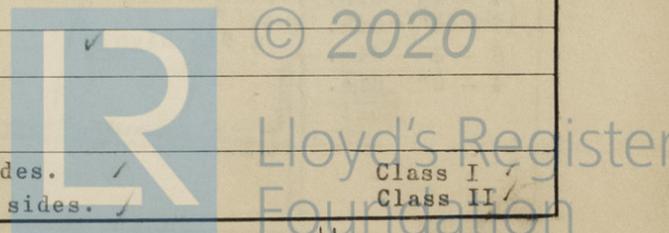


Particulars of Superstructures, Trunks, Casings, Deckhouses. (Dims. in mm)

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height, Beam to Beam
<del>Front Bulkhead</del> ... } <i>CSD</i>	11.0 ✓	11.0 ✓	220 x 10 B.P.	670	Welded T&B	2 at 1350 x 700	610 ✓	2438 ✓
<del>End Bulkhead</del> ... } <i>CSD</i>	7.5 ✓	7.5 ✓	220 x 11 B.P.	750	Bkt.T.welded B.	2 at 1350 x 700	610 ✓	2438 ✓
<del>Tonnage well aft Bhd.</del> ... } <i>CSD</i>	7.0 ✓	7.0 ✓	100x 50x 8 I.A.	650	Bkt.T, Free B.	2 at 1350 x 700	610 ✓	2438 ✓
<del>Tonnage well ford. Bhd.</del> ... } <i>CSD</i>	7.0 ✓	7.0 ✓	100x 50x 8 I.A.	650	Bkt.T, Free B.	2 at 1350 x 700	610 ✓	2438 ✓
Forecastle Bulkhead... <i>CSD</i> ...	7.5 ✓	7.5 ✓	75x 55x 7 I.A.	550-750	Free T.& B.	2 at 1350 x 700 1 at 1590 x 1290	610 ✓	2286 ✓
Deckhouse on Shelterdeck	8.5 ✓	8.5 ✓	130 x 65 x 8 I.A.	760	Welded T.free B.	None	-	2743 ✓
Deckhouse on Shelterdeck	7.0 ✓	7.0 ✓	100 x 50 x 8 I.A.	760	Free T. and B.	1 at 1550 x 700 2 at 1350 x 700	610 ✓	2743 ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...								
Exposed Machinery Casings on Superstructure Decks Shelterdeck.	6.5 ✓	6.5 ✓	75 rad.	730	-	2 at 1700 x 670	230 ✓	2438 ✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... on Shelterdeck								
Deckhouses <del>and Pump Room Entrances</del> Sides.	8.0 ✓	8.0 ✓	100 x 65 x 9 I.A.	700	Free T. and B.	None	-	2743 ✓

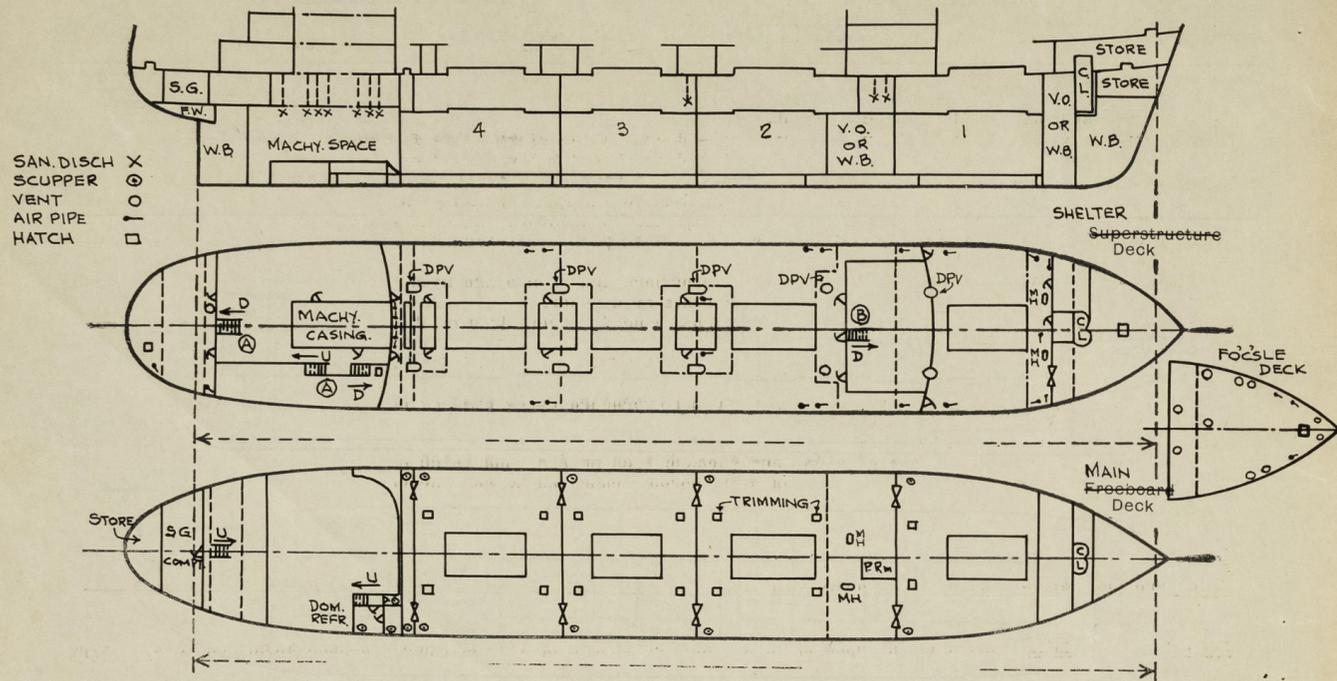
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

<del>Front Bulkhead</del> ... } <i>CSD</i>	Hinged steel watertight doors, operated both sides ✓	Class I ✓
<del>End Bulkhead</del> ... } <i>CSD</i>	Hinged steel watertight doors, operated both sides ✓	Class I ✓
<del>Tonnage Well Ford. Bhd.</del> ... } <i>CSD</i>	Portable steel plated on hook bolts ✓	Class II ✓
Bridge, Forward Bulkhead ...	-	
Forecastle Bulkhead... <i>CSD</i> ...	Hinged steel watertight doors, operated both sides ✓ Portable steel plate on hook bolts ✓	Class I ✓ Class II ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	-	
Exposed Machinery Casings on Superstructure Decks Shelterdeck.	Hinged steel doors, operated both sides ✓	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... on Shelterdeck	-	
Deckhouses <del>and Pump Room Entrances</del> Aft Bulkhead	Hinged steel watertight doors, operated both sides. ✓ Hinged hardwood doors, 2" thick, operated both sides. ✓	Class I ✓ Class II ✓



PARTICULARS OF PROTECTION TO OPENINGS, ETC.

The following diagrams should be used to indicate the positions of cargo and coaling hatchways, gangways, cargo and coaling ports, side scuttles, scuppers, ventilators, companionways, etc., which would affect the seaworthiness of the ship :-



Particulars of filley, funnel and ventilator coamings, engine room skylight and other openings in machinery casing tops and their means of closing :-

Funnel and Engine Room skylight strongly constructed of steel.  
Skylight fitted with hinged steel flaps having strong bull's eye lights.

Particulars of Flush Bunker Scuttles :- None.

Particulars of Companionways :-  
(including those incorporated in deckhouses and masthouses)

- A) Companionway to steering gear compartment, and to Domestic Refrigerated store enclosed in strong steel Poop. Hinged steel watertight doors, operated both sides, 1350 x 700, sills 610.
- B) Companionway to Pump Room enclosed in strong steel deckhouse on Shelterdeck. Hinged steel watertight door, operated both sides, 1350 x 700, sill 610.

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

**Shelter Deck:-** 300 r  
3 pairs of Derrick post vents, 14,000 high x 17.5 thk. with bolted cowl head; adequately supported.  
2 pairs of Derrick post vents, 565 dia., 14,000 high x 17.5 thk., with bolted cowl head; adequately supported, 1, 400 mm dia., 3500 high x 9.5 thk., with bolted cowl head, adequately supported.  
**Poop Deck:-**  
2, 400 mm dia., 3500 high x 9.5 thk., with bolted cowl head; adequately supported.  
**Forecastle Deck:-**  
2, 450 mm dia., 2160 high x 10 thk., with bolted cowl head; adequately supported.  
1, 250 mm dia., 1500 high x 8 thk., with bolted cowl head; adequately supported.  
1, 250 mm dia., 1570 high x 8 thk., cowl head, adequately supported; wood plug and canvas cover.  
5, 75 mm dia., G.N.V. 915 high x 4 thk. (Huber No 50 gaspipe). 1, 75 dia. cowl head, 915 high x 4 thk. (Huber No 50 gaspipe) Steel screwed plug.

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

**Forecastle Deck:-** 3 - 4" dia. x 460 high  
**Shelter Deck:-** 4 - 2 1/2" dia. }  
10 - 4" dia. } x 915 high  
8 - 5" dia. }  
4 - 6" dia. }

**Poop Deck:-** 2 - 4" dia. x 460 high  
**Winch Bridges:-** 1 - 4" dia. } x 460 high.  
1 - 5" dia. }

Air pipes fitted with ball check valve and wire gauge. ("A.G.Weser" type).

**No 1 (From Ford.) Winch Bridge:-** 2-185 dia. 500 high x 7.5 thk. cowl, wood plug and cover.  
1-315 dia. 500 high x 8.5 thk. bolted cowl canvas cover.  
2-305 dia. 2500 high x 8.5 thk. adequately supported, bolted cowl, canvas cover.  
**No 2 Winch Bridge:-** 2-185 dia., 500 high x 7.5 thk. cowl, wood plug and cover.  
2-200 dia. 440 high x 7.5 thk. bolted cowl, canvas cover  
2-305 dia. 2500 high x 8.5 thk. adequately supported, bolted cowl head, canvas cover.  
**No 3 Winch Bridge:-** 1-97 dia., 500 high x 7.5 thk. cowl, plug and cover.  
1-115 dia., 600 high x 7.5 thk. bolted cowl, canvas cover.

Particulars of Guard Rails and Coaling Ports :-

None.

Particulars of Scuppers and Sanitary Discharge Pipes :-

7-95 mm dia. scuppers (P&S) from exposed shelter deck led overboard below shelter deck; 1-95 mm dia. scupper (P&S) from exposed forecastle deck no storm valve fitted.  
2-1 1/2" dia. scuppers (P&S) from exposed poop deck led overboard below poop deck, no storm valve fitted. Focslc store on shelter deck, lamp and paintrooms, CO2 room and deck store rooms on shelter deck drained by 2" dia. drain holes fitted with brass screwed plug having chain attachment, Laundry on shelter deck drained by 2 1/2" dia. scupper led overboard below shelter deck through 2 1/2" dia. c.s. storm valve at ships side.  
Chain locker and lower Fore Peak store drained by 2" hand pump with discharge led overboard above shelter deck through 2" bronze stop valve.  
Steering gear compt. and Rudder Trunk drained by scuppers led from bilge hats through after peak to bilge well in machinery space; weighted cock fitted at outer end of discharge.  
Nos. 1, 2, 3 and 4 cargo tween deck spaces drained to hold bilges through 4" dia. cast steel S.D.N.R. surface valves controlled from above shelter deck and with open-shut indicator fitted. Tonnage well drained to No 4 hold bilge through 5" dia. cast steel S.D.N.R. surface valve (P&S) controlled from above shelter deck and fitted with open-shut indicator.  
Sanitary discharges from amidships accommodation led overboard below shelter deck with 1-65 mm dia. and 1-100 mm dia. (both P&S) bronze storm valves at ships side.  
Sanitary discharges from aft accommodation led overboard below Main deck level through 3-65 mm dia. and 2-100 mm dia. bronze storm valves, starbd. side, and through 1-65 mm dia. and 1-100 mm dia. bronze valves, port side.  
Scuppers in domestic refrig. compts. fitted with syphon traps and swivel covers.

Particulars of Side Scuttles & Deadlights :-

**Below Shelter Deck:-** 355 mm dia. opening side scuttles with hinged deadlights, to Steering Gear Compt. and to crew accommodation, M.O.T. type No 4.

**Poop Sides and Ends:** 355 mm dia. opening side scuttles with hinged deadlights, to accommodation. M.O.T. type No 5. Side scuttles of brass, deadlights of M.C.I.

Vertical distance of Sill of lowest Side Scuttle above top of keel 9,753 mm  
Distance from amidships to centre of lowest Side Scuttle 51,054 mm.

Particulars of Guard Rails & Bulwarks :-

**Shelter Deck:-** Plate bulwark, 1100 high x 6.5 thick with 200 x 90 x 10 B.A. rail and 2" x 3/4" H.R.B., plate stays, 9.5 thick, with 75 flange, spaced 1460 apart.

**Focslc Deck:-** Plate bulwark, 1070 high x 9.0 thick with 200 x 10 B.P. rail. Plate stays 9.5 thick with 90 flange, spaced 800 apart. 3 guard rails and stanchions at after end 1070 high, spaced 1100 apart.

**Poop Deck:-** Substantial bulwark, with 3 guard rails and stanchions at after end, 1070 high, spaced 1100 apart.

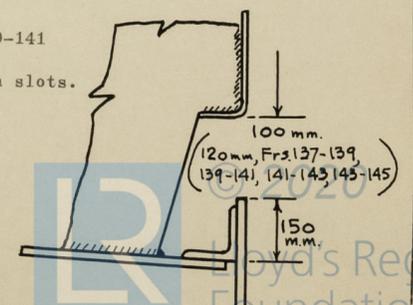
Particulars of Gangways, Lifelines, etc. :-

Provision made for fitting lifeline P and S from poop front to bridge house and from bridge house to forecastle.

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 (Fr. 125-125)	58.400 m 66,400 mm	1100 mm	See Sketch	One	5.183 6,950 m <sup>2</sup>	4.8 m <sup>2</sup> (CSO)
Forward Well (Fr. 125-151)	13.880 m 17,900 mm	1100 mm		Four	1,313 m <sup>2</sup>	1.31 m <sup>2</sup> (CSO)

State position of each freeing port ... After Well:- Fr. 42-125  
(F. and A. position and height above deck edge) Forward Well:- Fr. 125-136, 137-139, 139-141, 141-143, and 143-145.  
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :- open slots.  
Additional area where sheer is less than standard. -



*Paranagulla.*

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

Description of Hatchway	HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.								On Focle Deck		
	On Shelter Deck				On Focle Deck						
	N° 1 Cargo	N° 2 Cargo	N° 3 Cargo	N° 4 Cargo	To Focle Store	To Refr. Store	To Store Aft	To Tonnage Well	To Fwd. Deep Tanks	To Focle Store	
Dimensions of Hatchway	8895 x 6490	10210 x 6490	10210 x 6490	10210 x 6490	600 x 600	705 x 705	600 x 600	1300 x 6490	2 at 450 x 350 Oval M.H.	1000 x 1000	
COAMINGS	Height above Deck	1000	850	850	850	610	230	610	70	610	
	Thickness	11	11	11	11	8	8	8	300 x 13 B.P.	8	
	Stiffeners	11 sp 2740	11 sp 2920	11 sp 2920	11 sp 2920	-	-	-	-	-	
	Brackets, Stays	11 sp 1625	11 sp 1625	11 sp 1625	11 sp 1625	-	-	-	-	-	
HATCH BEAMS	Number	MacGregor steel W.T. covers, fitted in 6 sections (5 at N° 1).									
	Bearing Surface	Top plating 8.0 or 8.5 mm, side and end plating 8.0 mm. One transverse web at centre of each section, 280 (140 at side) x 8.0 mm with 180 x 17 Face Flat.									
FORE AND AFTERS	Number	Long. web on centre line 280 x 8 mm with 90 x 15 Face Flat.									
	Bearing Surface	End plating of each section 8.0 mm thick. Access manhole in after section of each cover, 600 x 420; steel cover, 8.5 mm thick, hinged W.T., secured by 4 clips.									
HATCH COVERS	Material	All in accordance with approved plans.				Steel 8	Steel 6	Steel 8	Wood 65	Steel 12.5	Steel 8
	Bearing Surface					Hinged W.T.	Hinged Non-W.T.	Hinged W.T.	F. and A. 60 mm	O.T. Secured	Hinged W.T.
Spacing of Cleats	990 max. (450 from corners).				Secured by 4 clips	Secured by padlock	Secured by 4 clips	Covers Secured From below by hemp lashings	Secured by 20 bolts	Secured by 6 clips	
Number of Tarpaulins	None				4 clips	4 clips	4 clips	4 clips	4 clips	4 clips	
Spacing of cross joint wedges	1220 max. Rising pieces fitted.				4 clips	4 clips	4 clips	4 clips	4 clips	4 clips	
*Are wood fore and afters steel shod at all bearing surfaces? - Are battens and wedges efficient and in good condition? - Are tarpaulins in good condition and in accordance with rule requirements? - Are lashings provided in accordance with rule requirements? - Are wood covers fitted with galvanised end bands? -											

Particulars of any special features:— (Timber Deck-cargo Fittings, Skylights, Sewage Systems, Ash Ejectors, Rubbish Shoots, etc.)

Tonnage Hatch (Closed Condition)

Steel plate provided, to be welded over hatchway: 9 mm thick, stiffened by 4 - 180 x 9 B.P. stiffeners F. and A., and 1 - 200 x 11 B.P. stiffeners transversely. Access hatch 600 x 600, coaming 610 above shelter deck, 8 mm thick; cover plate 8 mm thick., hinged W.T., secured by 4 clips.

Closing appliances of openings in 'tween decks bulkheads.

Portable steel plate, 7 mm thick, adequately stiffened with 7/8" dia. hook bolts spaced 305 mm apart, rendered watertight for "closed" condition by insertion of 60 mm x 13 mm rubber packing.

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

Description of Hatchway	HATCHWAYS ON MAIN DECK							
	N° 1 Cargo	N° 2 Cargo	N° 3 Cargo	N° 4 Cargo	Trimming 14 off	To Deep Tanks		
Dimensions of Hatchway	8900 x 6100	10220 x 6100	10220 x 6100	10220 x 6100	680x680	2 at 450 x 350 oval M.H.		
COAMINGS	Height above Deck	240 x 10 B.P.						
	Thickness	240 x 10 B.P.						
	Stiffeners	240 x 10 B.P.						
	Brackets, Stays	240 x 10 B.P.						
HATCH BEAMS	Number							
	Bearing Surface	Steel pontoon hatch covers transverse section as above.						
FORE AND AFTERS	Number	Constructed in accordance with the approved plans.						
	Bearing Surface	Constructed in accordance with the approved plans.						
HATCH COVERS	Material	As above				Steel 8.5	Steel 10	
	Bearing Surface	150 mm				secured by 22 bolts	secured by 20 bolts	
Spacing of Cleats	610 mm (max)				1	1		
Number of Tarpaulins	1				1	1		
*Are wood fore and afters steel shod at all bearing surfaces? - 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? - Are wood covers fitted with galvanised end bands? -								

Particulars of any special features:— (Timber Deck-cargo Fittings, Skylights, Sewage Systems, Ash Ejectors, Rubbish Shoots, etc.)

NOTE: Ventilator tubes in N° 1 'tween decks (fr. 127 P and S) and N° 2 'tween decks (fr. 114/115 P and S) are portable. Opening in main deck is 320 mm dia. Closing appliance when tube is removed is 470 mm dia. steel plate, 8.5 mm thick secured W.T. by 12 - 3/4" dia. studs. Tube is secured in position, W.T. by 12 - 3/4" dia. studs.