

IRON SHIPS.

No. 14022 Survey held at Birkenhead Date Oct 10 1858 to June 25 1857
 on the Ship Edith Byrne Master Hannay
 Tonnage Gross 729 44 Engine Room Register 729 44 Built at Birkenhead
 When Built 1857 By whom built Peto Brassey & Co. Owners A.E. Byrne & Co.
 Port belonging to Liverpool Destined Voyage Calcutta
 If Surveyed Afloat or in Dry Dock Whilst Building, under Special Survey

Recd 8/8/57

Length aloft	Feet. Inches.	Extreme Breadth....	Feet. Inches.	Depth from top of Upper Deck } Beam to top of Floor.....	Feet. Inches.	Power of Engines....	Horse No.
165 1		30 2		20 3			
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft		18 in		18 in			
Floors, Size of Angle Iron, and No. at bottom of Floor Plate.....	4 1/2	3	9/16	4 1/2	3	8/16	
,, depth and thickness of Floor Plate at mid line	21	-	1/2	20	-	8/16	
,, depth and thickness of Floor Plate at Bilge Keelson	4 1/2	-	1/2	-	-	-	
,, Size of Reversed Angle Iron, and No. at top of Floor Plate..	3	3	3/8	3	2 1/4	3/8	
Frames, Size of Angle Iron, single & double..							
,, Reversed Iron, if to every frame or every frame.....	3	3	3/8	3	2 1/4	3/8	
Beams, Deck (N°. 51) double Angle I Bulb Iron with double Angle Iron on top	7	-	1/2	7	-	1/2	
,, depth & thickness of plate amidships	2 1/2	2 1/2	3/8	2 1/2	2 1/2	3/8	
,, double or single Angle Iron, on lower edge							
,, average space between	3 feet	-	-	3 feet	-	-	
,, if wood (N°.) sided & moulded							
Hold, or Lower Deck (N°. 49) double Angle Iron Bulb Iron with double Angle Iron on top	9	-	1/2				
,, depth & thickness of plate amidships	2 1/2	2 1/2	3/8				
,, double or single Angle Iron, on lower edge	2 1/2	2 1/2	3/8				
,, average space between	3 feet	-	-				
,, if wood (N°.) sided & moulded							
Paddle, wood, sided and moulded or if Iron, size of Plate							
Keelson, wood, sided & moulded, iron, size of plate, if Iron give sketch & dimensions	2.9	1/2	-				
,, Side or Bilge. Sketch & N°. on the other side							
,, Number 3 Bilge Keelson on both sides							
Transoms, material or, if none, in what manner compensated for. <u>Frames & Clamps</u>							
Knight-heads ,, <u>None</u>							
Hawse Timbers ,, <u>None</u>							
The Frames or Ribs extend in one length from <u>Keel</u> to <u>Gumrule</u> riveted through plates with (3/8 in.) rivets, about (7) apart.							
The reverse angle irons on the floors extend in one length across the middle line from <u>Middle line</u> to <u>Hold Beams on alternate Floors</u>							
,, „ „ on the frames „ „ „ from <u>near the Keelson</u> to <u>Gumrule on alternate Floors</u> . - the butts connected with butt piece							
Keelson, how are the various lengths of plates or angle irons connected? <u>Angle Iron & Butt piece</u>							
Plates, Garboard, double single riveted to keel & at upper edge, with rivets (3/4 ins.) diameter averaging (2 in.) from centre to centre of rivet.							
,, Edges from Garboards to upper part of bilge, worked carvel with a lining piece (in) thick, or clencher, double or single riveted ; rivets (3/4 in.) diameter, averaging (2 ins.) from centre to centre of rivets.							
,, Butts from Keel to turn of bilge, worked carvel with a lining piece (7x5/8) thick, double or single riveted ; rivets (3/4 in.) diameter, averaging (2 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the stake below? <u>Yes & above also</u>							
,, Edges from bilge to planksheer, worked carvel with a lining piece () thick, double or single riveted ; rivets (3/4 in.) diameter, averaging (2 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the stake below? <u>Yes & above also</u>							
,, Butts from bilge to planksheers, worked carvel with a lining piece (7x5/8) thick, or clencher, double or single riveted ; rivets (3/4 in.) diameter, averaging (2 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (3 1/2) Breadth of laps in single rivetting (all double)							
Planksheer, how secured to the plating of the sides							
Waterway „ „ planksheer and to the Beams							
Side trussing <u>none</u> breadth and thickness of plates							
Deck trussing 10 "							
Deck Beams, how secured to the side? <u>Riveted to the Gumrule Plates & Frames</u>							
Hold or Lower Deck „ <u>Riveted to Gumrule or Stringer Plates & Frames</u>							
Paddle „ „							
No. of breasthooks <u>6</u> rib <u>6</u> crutches <u>3</u> rib <u>3</u> feet how are pointers compensated? <u>Stringer Plates, Clamps & bolts & nuts</u>							
What description of iron is used for the angle iron and plate iron in the vessel?							

Explain by sketch, if necessary. See Sketch on the other side.

Bolted through Gumrule Plate & Angle Iron each other - Gumrule plate

Plates 10x1/2 (on each side of Hatch) all four fastened to Beam & -

for Peto Brassey & Co. Ltd. London
 St. E. & J. Byrne
 1857

Jan 14 1857

Workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five times the diameter of the rivets in double riveted edges and butts, and at least three times the diameter of the rivets where single rivetting is admitted? Very near

Do the edges of the carvel work and of the butts fay close together throughout their length without requiring any making good of deficiencies? No

Do the fillings between the ribs and plates fill in solid with single pieces, or are they in short lengths of various thicknesses? Solid pieces

Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? Yes and are the rivet holes well and sufficiently countersunk in the outer plate? Yes

Are there any rivets which either break into or have been put through the seams or butts of the plating? A few

Her Masts, Yards, &c., are in Good condition, and sufficient in size and length.

She has SAILS.

N°.	Fore Sails,
2	Fore Top Sails,
2	Fore Topmast Stay Sails,
2	Main Sails,
2	Main Top Sails,
	and other will find

CABLES, &c.

	Fathoms.	Inches.
Chain	300	158
Hempen Stream Cable	90	10
Hawser	90	8
Towlines	90	5
Warp		
All of <u>Good</u> quality.		

ANCHORS, and their weights.

N°.	Weights.
3	27-2-10
3	26-0-14
	26-0-7
1	9-2-14
1	4-2-1

I recommend another
Type anchor which
was promised to be
supplied

Her Standing and Running Rigging are sufficient in size and Good in quality.

She has one Long Boat and two others.

The present state of the Windlass is Good (2 Capstan V.S.R. Good and Rudder Good (2 Pumps Metal Good)

General Remarks, Statement and Date of Repairs, extent of corrosion (if any) both internally and externally, and condition of rivets.

- DATES of Surveys held while building, as per Section 17.
- 1st. On the several parts of the frame, when in place, and before the plating was wrought Oct 10 1856
 - 2nd. On the plating during the progress of rivetting Nov 6 - 1856 Dec 1st 1856
 - 3rd. When the beams were in and fastened, and before the decks were laid June 17 1857
 - 4th. When the ship was complete, and before the plating was finally coated Surveyed constantly whilst Built
 - 5th. After the ship was launched After Launched

This vessel was built under Special Survey.

She is double riveted throughout, and several other parts are stronger than required by the Rules. The Main Intercostal Nelson is very deep & well secured with 4 longitudinal angle irons and 4 vertical irons on each floor plate, The lower Bilge Nelson

is also an Intercostal one in the Midship Body, the middle plate $9 \times \frac{1}{2}$ is fitted to the outside plating with double angle iron on both, together with double angle iron on the Ribs, (or in reversed angle iron on Ribs)

She has one more Bilge or side Nelson on each side than required. There is also an additional angle iron in the Midship body (about 80 feet) fitted on the Hold Beam Stringer Plate & against the outside plating & riveted to both.

The angle iron on the gunwale plate is less sided & moulded than given by the Rules but is thicker than required & is secured on the outside of the stanchions with the gunwale plate running to the outside of the making strong work. Excepting the Topgallant Forecastle she is a very good vessel in my opinion entitled to the 9 years grade as built for, but respectfully leave the case in the hands of the Committee.

In what manner are the surfaces preserved from oxidation? Redpaint

The builders have not adhered to the Rule in the Hold Beam, having a very large one & small one alternately as shown in the sketch on the other side.

I am of opinion this Vessel should be classed

The amount of the Fee £ 5 is received by me,

Aug 11 Special £ 3 10 9 5

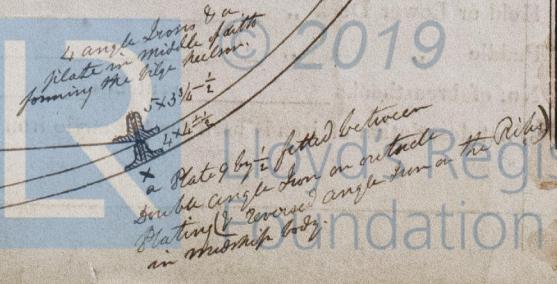
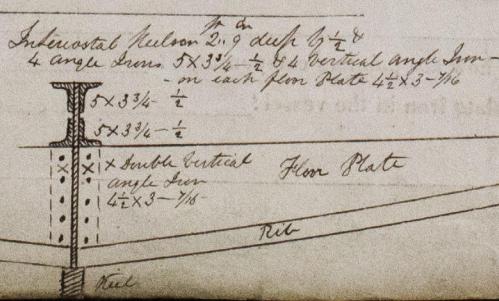
Certificate (if required) £ :

Sens Mastdale

Double Angle Iron $5 \times 3 \frac{1}{2} \times \frac{1}{2}$

Committee's Minute 18

Character assigned



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