

IRON SHIP.

No. 4249 Survey held at Glasgow Date, First Survey 29th Dec/45 Last Survey 12th June 1876On the B^e Ellora

Master J. E. Ballinacall

TONNAGE under Tonnage Deck

1056.04

ONE, OR TWO DECKED, THREE DECKED VESSEL.
SPAR, OR AWNING-DECKED VESSEL.

Keel of Hull, Upper, or Lower Deck.

74.37

HALF BREADTH (moulded) Feet. 17.42

Ditto of Poop, or Upper Deck.

13.71

DEPTH from upper part of Keel to top of Upper Deck Beams 23.33

Ditto of Houses on Deck

42.14

GIRTH of Half Midship Frame (as per Rule) 35.42

Ditto of Forecastle

55.57

1st NUMBER 76.17

Gross Tonnage

1186.26

2nd NUMBER 15.881

Less Crew Space

1130.69

PROPORTIONS—Breadths to Length 5.98

Register Tonnage as cut on Beam

1130.69

Depths to Length—Upper Deck to Keel 8.93

Main Deck to Keel

Built at Glasgow

When built 1876 Launched 9th Jan

By whom built Barclay, Currie & Co.

Owners G. B. Fyfe

Port belonging to London

Destined Voyage Calcutta

And

Surveyed while Building, Afloat, or in Dry Dock.

LENGTH on deck as per Rule ... Feet. 208 6 BREADTH—Moulded ... Feet. 34 10 DEPTH top of Floors to Upper Deck Beams ... Feet. 21 4 Do. do. Main Deck Beams ... Feet. 21 4

Dimensions of Ship per Register, length, 221.2 breadth, 35.1 depth, 21.2

	Inches in Ship.	Inches per Rule.		Inches in Ship.	Inches per Rule.
KEEL, depth and thickness	9 x 2 1/2	8 1/2 x 2 1/2	PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges	40	11 34 11
STEM, moulding and thickness	8 1/2 x 2 1/2	8 x 2 1/2	of Wooding at Bilge, or increased thickness, and length applied	all	9 x 10 9 x 10
STERN-POST for Rudder do. do.	8 x 2 1/2	8 x 2 1/2	fm up. part of Bilge to Ir. edge of Sh'rstrake	36	9 x 10 36 12
for Propeller	23	23	Main Sheerstrake, breadth and thickness	36	12 36 12
Distance of Frames from moulding edge to moulding edge, all fore and aft	23	23	of Ribbing at Sh'rstrake, & length applied	1760 x 136.8	16 1/4 x 136.7
FRAMES, Angle Iron, for 2/3 length amidships	5 3 8	5 3 8	Upper Deck Beams, breadth and thickness	42	9 42 9
Do. for 1/3 at each end	5 3 8	5 3 8	Angle Iron on ditto	5 x 3 1/2 x 9	5 x 3 1/2 x 9
REVERSED FRAMES, Angle Iron	3 1/2 3 8	3 1/2 3 8	Tie Plates fore and aft, outside Hatchways	12 x 9	12 x 9
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	24	24	Diagonal Tie Plates on Beams No. of Plates, thickness material and scantlings	Waterways do. do.	4
thickness at the ends of vessel	12	12	Flat of Upper Deck do. do.	How fastened to Beams	Stringer Plates on ends of Main & Middle Deck
depth at 3/4 the half-bdth. as per Rule	48	48	Stringer Plates on ends of Main & Middle Deck	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
height extended at the Bilges	8	8	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
BEAMS, Upper, Lower, or Middle Deck	8 1/2	8 1/2	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
Single or Double Angle Iron on Upper edge	3 3 6	3 3 6	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
Average space	46	46	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
BEAMS, Lower Deck, Main, or Middle Deck	8 1/2	8 1/2	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
Single or Double Angle Iron on Upper edge	3 3 7	3 3 7	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
Average space	46	46	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
KEELSONS Centre line, single or double plate, for, or between, Plates	16	16	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
Rider Plate	11	11	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
Double Plate No. of Plates	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
Angle Irons	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
Double Angle Iron No. of Plates	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
Side Intercostal Plate	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
do. Angle Irons	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
Attached to outside plating with angle iron	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
BILGE Angle Irons	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
do. Double Plate	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
do. Double Angle Irons	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
BILGE STRINGER Angle Irons	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
do. Double Plate	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
do. Double Angle Irons	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?
SIDE STRINGER Angle Irons	5 3 1/2 9	5 3 1/2 9	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?	Is the Stringer Plate attached to the outside plating?

Transoms, material. Knight-heads. Hawse Timbers. Plates & Irons
Windlass Ropes Patent Pall Bitt not required

The FRAMES extend in one length from Keel to Gunwale Riveted through plates with 7/8 in. Rivets, about 7 apart.

The REVERSED ANGLE IRONS on floors and frames extend from middle line to Upper Deck and to alternately

KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes

PLATING. Garboard, double riveted to Keel, with rivets 1 1/8 in. diameter, averaging 5 1/2 ins. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 7/8 in. diameter averaging 3 1/2 ins. from centre to centre.

Butts of 3 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 1 1/4 thicker than the plates they connect.

Edges from bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 7/8 in. diameter, averaging 3 3/4 ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 7/8 in. diameter, averaging 3 3/4 ins. from cr. to cr.

Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted.

Butts of Main Sheerstrake, treble riveted for 1/2 length amidships. Butts of Upper or Lower Sheerstrake, treble riveted length amidships.

Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper or Lower Stringer Plate, treble riveted for length.

Breadth of laps of plating in double riveting 5 3/4 Breadth of laps of plating in single riveting

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted?

Waterway, how secured to Beams (Explain by Sketch, if necessary.)

Beams of the various Decks, how secured to the sides? New plates welded to Beams No. of Breasthooks, 5 Crutches, 3

What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Best

Manufacturer's name or trade mark, Anker Crossland, Plates For Head & Co.

The above is a correct description.

Builder's Signature, Barclay, Currie & Co. Surveyor's Signature, J. E. Ballinacall

Surveyor to Lloyd's Register of British and Foreign Shipping.

IRON 466-0478

Workmanship.

Are the butts of plating planed or otherwise fitted?

Planed

16787 Iron

Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies?

Are the fillings between the ribs and plates solid single pieces?

Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other?

Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces?

Do any rivets break into or through the seams or butts of the plating?

Masts, Bowsprit, Yards, &c., are in good condition, and sufficient in size and length. If of Iron or Steel give Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit

Fore Mast 79' 4" x 31" x 7 1/2" Iron. Four plates in the round, edges double, butts
Main Mast 82' 4 1/2" x 31" x 7 1/2" butts riveted doubled from lower to upper deck
Mizen Mast 81' 4" x 22" x 7 1/2" 3 Plates in the round, edges double, butts riveted

NUMBER for EQUIPMENT		Fathoms.	Inches.	Test per Certificate.	Length & Size req'd per Rule.	Test req'd per Rule.	ANCHORS.	N ^o .	Weight. Ex. Stock.	Test per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
N ^o .	SAILS.	CABLES, &c.	Chain				Bowers					
	Fore Sails,	(State Machine where Tested, Date, & name of Superintendent.)		271	1 3/4	77-125	270-1 3/4	3	30.0.4	28.13.1.2	30.0.0	28 12/20
Two	Fore Top Sails,	Certificates signed William Fraser		Tested at Glasgow 27 th April 1876		55-125	270-1 3/4	3	30.0.0	28.12.2.0	30.0.0	28 12/20
	Fore Topmast Stay Sails								25.2.3	25.3.3.0	25.2.0	25 3/20
Suits									Tested at Glasgow 29 March 1876			
		Certificates signed William Fraser										
	Main Sails,	Hawser ...	90	15/16		90 15/16						
	Main Top Sails,	Towlines ...	90	10		90 9	Stream ...		12.0.2		12.0.0	
		Warp ...	90	9	✓	90 5 1/2			6.0.0		6.0.0	
		quality Good	90	6			Kedges ...		3.0.14	✓	3.0.0	

Standing and Running Rigging *Wire & hemp* sufficient in size and *good* in quality. She has *2* Life Boats and *4* Others

The Windlass is *Hapiers Patent* Capstan *Good* and Rudder *Good* Pumps *Hollows Patent*

Engine Room *Lighting*. *How constructed?*

What arrangements for ventilation in bad weather?

How constructed?

How are they secured?

Weight above deck?

How constructed? *How are they secured?* *Weight above deck?* *How constructed?* *How are they secured?* *Weight above deck?*

Cargo Hatchways.—How formed? *Iron comings*

State size Main Hatch *11' 4" x 9' 5"* Forehatch *4' 11" x 4' 8"* Quarterhatch *5' 1" x 4' 7"*

If of extraordinary size, state how framed and secured? *Usual size*

What arrangement for shifting beams?

Hatches, If strong and efficient? *Yes*

Order for Special Survey No. <i>1118</i>	DATES of Surveys held while building as per Section 18.	1st. On the several parts of the frame, when in place, and before the plating was wrought	<i>29th Dec^r. 1875. January 11. 18. Feb 1. 7. 14.</i>
Date <i>18th Nov^r 1875</i>		2nd. On the plating during the process of riveting	<i>March 5. 8. 10. 16. 22. 28 April 3. 7. 12. 17.</i>
<i>Order for Special Survey No. 1118</i>		3rd. When the beams were in and fastened, and before the decks were laid....	<i>21. 25. 28. May 1. 5. 8. 16. 22. 30. June 9. 11.</i>
<i>Done</i>		4th. When the ship was complete, and before the plating was finally coated or cemented..	<i>7th 12th 1876.</i>
No. <i>264</i> in builder's yard.		5th. After the ship was launched and equipped	

General Remarks (State quality of workmanship, &c.)

The workmanship is very good. This is sister vessel to 15th Silhet Glasgow Report 16th 187 and is like that vessel fitted with rigging screws, and the bowsprit built into head.

Fore & Main Yards *72' 0" x 17 1/2" x 6 3/4" Iron Two plates edges single, butts riveted*
St M. Lower Topmast Yards *61' 0" x 14 3/4" x 4 1/2" Steel*

Poop *40' 0"* Forecastle *33' 6"* Deck House *35' 0" x 14' 8"*

State if one, two, or three, decked vessel, or if spar, or awning decked, and the lengths of poop, forecandle, or raised quarter deck, and the length of double, or part double bottom.

How are the surfaces preserved from oxidation? Inside *Cement & Paint* Outside *Paint*

I am of opinion this Vessel should be Classed *By owner*

The amount of the Entry Fee ... £ *5* : : : is received by me,
Special ... £ *53* : *5* : *6* June 8th 1876
Certificate ... *Grates* :

(Travelling Expenses, if any, £ *4* : *4* : .)

Committee's Minute *16th June 1876*

Character assigned *100A*
IRM *ADP*

