

IRON SHIPS.

Survey held at Glasgow Date 31st August Recd 4/9/65 1855
 Ship "City of Benares" now Ruthin Master James Smith
 Tonnage under deck 1185.53 Built at Glasgow When built 1855 Launched 11 July 1855
 of poop 1.72 By whom built Barclay Curle & Co. Owners G. Smith & Sons
 of engine room 1.72 Port belonging to Glasgow Destined Voyage Calcutta
 Register tonnage 1185.53
 Surveyed while Building, Afloat, or in Dry Dock whilst building and afloat

Feet.	Inches.	Feet.	Inches.	Feet.	Inches.	Horse.	No. of Decks	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	16ths. required per Rule.
Loft	22	Extreme Breadth	34	Depth from top of Upper Deck Beam to top of Floor	22		Two				
Length of Ship per Register	224	Breadth	34	Depth	22						
Plates in Garboard Strakes, breadth and thickness								30	50	30	50
Ditto from Garboard to upper part of Bilges								40	50	40	50
" from upper part of Bilge to a perpendicular height from upper side of Keel of 3/4ths the entire depth of Hold								40	50	40	50
" from 3/4ths depth of Hold to lower edge of Sheerstrake								50	50	50	50
" Sheerstrake, breadth and thickness								30	50	30	50
Butt Straps to outside plating, breadth and thickness								10	50	10	50
Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness								30	50	30	50
Angle Iron on ditto								5	42	5	42
Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways								10	50	10	50
Diagonal Tie Plates on ditto								10	50	10	50
Planksheer, materials and scantlings								4	42	4	42
Waterway ditto ditto								12	50	12	50
Flat of Upper Deck, thickness and material								5	42	5	42
" how fastened to Beams								3	42	3	42
Ceiling between Decks and in Hold, thickness and material								3	42	3	42
Clamps or Spirketting ditto								3	42	3	42
Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness								3	42	3	42
Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams								10	50	10	50
Stringers in Hold								5	42	5	42
Flat of Lower Deck, thickness and material								3	42	3	42
Main piece of Rudder, diameter at head								3	42	3	42
" " at heel								3	42	3	42
(Can the Rudder be unshipped afloat)								3	42	3	42
Bulkheads, No. 4 Thickness of								3	42	3	42
" Height up upper deck								3	42	3	42
" how secured to the sides of the ship								3	42	3	42
" size of vertical angle irons								3	42	3	42

Transoms, material Iron, if none, in what manner compensated for.
 Knight-heads, and Hawse Timbers Iron
 The Frames extend in one length from middle line to gunwale
 The reverse angle irons on the floors extend in one length across the middle line from upper part of Hold Beams to gunwale
 " " " on the frames " " from middle line to gunwale
 Keelson, how are the various lengths of plates or angle irons connected? by lining pieces
 Plates, Garboard, double or triple rivetted to keel, double or single at upper edge, with rivets (1/2 ins.) diameter, averaging (4 1/2 ins.) apart.
 " Edges from Garboards to upper part of bilge, worked clench, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 1/2 ins.) apart.
 " Butts from Keel to turn of bilge, worked carvel with butt straps (3/8 1/2) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 1/2 ins.) apart.
 Do the butt straps lap over and rivet through the lands of the strake below? No
 " Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clench, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 1/2 in.) apart.
 Do the butt straps lap over and rivet through the lands of the strake below? No
 " Edges of Sheerstrake, double or single rivetted? At upper edge Single At lower edge Double
 " Butts from bilge to planksheers, worked carvel with butt straps (3/8 1/2) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 1/2 ins.) apart. Breadth of laps in double rivetting (5 1/2 in.) Breadth of laps in single rivetting (3 1/2 in.)
 Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted?
 Planksheer, how secured to the plating of the sides Explain by sketch
 Waterway " " planksheer and to the Beams if necessary.
 Deck Beams, how secured to the side? Welded
 Hold or Lower Deck ditto Welded
 Paddle " " Welded
 No. of breasthooks Four crutches Two
 What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c. Wrought Iron
 Manufacturer's name or trade mark Glasgow Rolled Plate
 We certify that the above is a correct description of the several particulars therein given.
 Builder's Signature Barclay, Curle & Co. Surveyor's Signature J. B. Pauling

4266 Bm

Workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five and a half times the diameter of the rivetted edges and butts, and at least three and a quarter times the diameter of the rivets where single rivetting is admitted? *Yes*

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

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

Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *Yes* and are the rivets 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 in corners of the*

Her Masts, Bowsprit, Yards, &c., are in *Good* condition, and sufficient in size and length. (If they are of Iron or Steel give the 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 rivetting, quality of Materials, and if stamped with Maker's name.

She has SAILS.

N^o 1 Fore Sails,
double Fore Top Sails,
single Fore Topmast Stay Sails,
 Main Sails,
 Main Top Sails,
 and

Tested by R. P. Burrell
CABLES, &c.
4 1/2" 18" Aug 1865

	Fathoms.	Inches.	Tons.
Chain	300	1 1/2	5 5/8
Hempen Stream Cable	90	10	
Hawser	80	1 1/2	
Towlines	90	9	
Warp	90	5 1/2	

All of *Good* quality.

Tested by R. P. Burrell
ANCHORS, and their weights.
8 1/2" 18" Aug 1865

	N ^o .	Weight.
Bowers,	3	33.0.25
Stream,	1	25.3.18.25
Kedges,	1	16.0.25

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

She has *two* Long Boat and *three* others
 The present state of the Windlass is *two* Capstan *two* and Rudder *two* Pumps *two* and efficient

Order for Special Survey	DATES of	1st.	On the several parts of the frame, when in place, and before the plating was wrought
No. <i>375</i>	Surveys held	2nd.	On the plating during the progress of rivetting <i>Built under Special Survey</i>
Date <i>March 17/65</i>	while building	3rd.	When the beams were in and fastened, and before the decks were laid <i>from the 15th March</i>
Order for Ordinary Survey	as per	4th.	When the ship was complete, and before the plating was finally coated <i>to 31st Aug 1865</i>
No. _____	Section 18.	5th.	After the ship was launched
Date _____			

State if she has a Spar Deck *two* Poop *Raised 2^d* or Forecastle *Yes*

General Remarks,

Fitted with an intermediate intercostal keelson midway between middle line and Bilge keelson 7/8 thick.
For main & bowsprit of iron, masts of iron and bowsprit formed of three plates 7/8 thick. lands double close clad. Butts tubular barrel riveted.
For and main yards of tin plates 7/8, 5/8 and 7/8 thick. lands single and Butts tubular barrel riveted.
The frames are spaced 24 ins apart all fore and aft, and are doubled with angle bars of the same size as the frames viz 5 x 3 x 20 for half the length of the ship to the upper part of bilges.

In what manner are the surfaces preserved from oxidation? Inside *Flat of bottom with Portland Cement* with Red Lead
 Ditto ditto Outside *Red Lead and Patent Paint*

I am of opinion this Vessel should be Classed *A.1*
 The amount of the Fee£ *5* : : : is received by me,
Aug 1865 Special£ *59* : 4 :
 Certificate (if required)£ *10* : 0 : 0

Committee's Minute *5th September 1865.*

Character assigned *A.1*