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3607

IRON SHIPS.

Request for S.S. No. 304

Rec 2/6/64

No. 2188 Survey held at Penfren Date 30th May 1864

on the "S.S. Madras" Master A. Bowers

Tonnage Gross 679.84 Engine Room 134.53 Register 545.31 Built at Penfren

When Built 1864 Launched 4th May By whom built H. Simons & Co

Owners British India Port belonging to Glasgow Destined Voyage India

Surveyed Afloat or in Dry Dock While building

Length aloft	Feet. Inches.		Extreme Breadth	Feet. Inches.		Depth from top of Upper Deck		Feet. Inches.	Power of Engines	Horse.
	226	2		28	3	15	4			
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	18		18							
Floors, Size of Angle Iron, and No. / at bottom of Floor Plate	4	3 1/2	4	3	1/16					
depth and thickness of Floor Plate at mid line	15	5 9/16	15	9/16						
depth and thickness of Floor Plate at Bilge Keelson	4	9/16	4	9/16						
Size of Reversed Angle Iron, and No. / at top of Floor Plate	3	3 1/16	3	2 3/4	6/16					
Frames, Size of Angle Iron, single or double	4	3 1/16	4	3	7/16					
Reversed Iron, 1/2 to every frame & or every alternate frame	10 above turn of bilge & 10 Gunwale									
Beams, Deck (N ^o . 59) double Angle Iron, Plate, or Bulb Iron	4	3 1/16	4	7/16						
double or single Angle Iron, on upper edge	3	3 1/16	3	2 1/2	6/16					
average space between	3 feet 5									
if wood (N ^o .) sided & moulded										
Hold, or Lower Deck (N ^o . 24) double Angle Iron, Plate, or Bulb Iron	4	3 1/16	4	7/16						
double or single Angle Iron on upper edge	3	3 1/16	3	2 1/2	6/16					
average space between	3 feet & 6 feet 3 1/2									
if wood (N ^o .) sided & moulded										
Paddle, wood, sided and moulded, or if Iron, size of Plate										
Engine										
Keelson, single plate, box, or intercostal	10	5 5/8	10	5	5/8					
Size of Plates	4 a.s.									
Size of Angle Irons	4 1/2 3/2 7/16									
Ditto Bilge (No. 2)	4 1/2 3/2 7/16									

Transoms, material iron or, if none, in what manner compensated for. how secured to the sides of the ship between 1st frames

Knight-heads, and Hawse Timbers iron plate frame size of vertical angle iron and their distance apart 3 x 3 x 7/16, 30"

The Frames or Ribs extend in one length from Keel to gunwale rivetted through plates with (3/4 in.) rivets, about (4 1/6) apart.

The reverse angle irons on the floors extend in one length across the middle line from above bilges to ditto

on the frames " " from Middle line to Gunwale

Keelson, how are the various lengths of plates or angle irons connected? By butt covers

Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets (3/4 in.) diameter averaging (3 1/2 in.) from centre to centre of rivet.

Edges from Garboards to upper part of bilge, worked carvel with a lining piece (1/2 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets.

Butts from Keel to turn of bilge, worked carvel with a lining piece (5/16 in.) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No

Edges from bilge to sheerstrake, worked carvel with a lining piece (1/2 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No

Edge of Sheerstrake, double or single rivetted? Double

Butts from bilge to planksheers, worked carvel with a lining piece (5/16 in.) thick, double or single rivetted; rivets (3/4 in.) diameter averaging (3 ins.) from centre to centre of rivets. Breadth of laps in double rivetting 5 dia Breadth of laps in single rivetting 3 dia

Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? Double

Planksheer, how secured to the plating of the sides { Explain by sketch } Iron Bulwarks

Waterway " " planksheer and to the Beams { if necessary. } screw bolts & nuts.

Deck Beams, how secured to the side? Welded pieces rivetted to frames

Hold or Lower Deck " ditto ditto

Paddle " " ditto

No. of breasthooks 4 crutches 4 how are pointers compensated? All stringers run through

What description of iron is used for the angle iron and plate iron in the vessel? Blackburn Builder's Signature H. Simons & Co

IRON 437A - 0037

3607 Iron

Workmanship. Are the lands or laps of the clenwork in all cases in breadth at least five times the diameter of the rivets in double rivetted edges and butts, and at least three 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 deficiencies? 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, 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 in corners of butts

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

SAILS.		CABLES, &c.		ANCHORS, and their weights.		
		Fathoms.	Inches.	No.	Weight.	
One complete set of 4 stands and	Fore Sails,	Chain ... <u>Sealed to 34</u>	270	13	Bower, <u>Sealed to 19 1/2</u>	3 19.1.7
	Fore Top Sails,	Keopex Stream Cable <u>Close United</u>	90	8	<u>Shotman's Patent</u>	3 19.0.0
	Fore Topmast Stay Sails,	Hawser	90	9	Stream,	1 6.1.20
	Main Sails,	Towlines	90	4	Kedge,	2 3.0.24
	Main Top Sails,	Warp	90	16		2 1.2.21
	All of <u>good</u> quality.		90	52		

Her Standing and Running Rigging Gal. mix + hemp sufficient in size and good in quality.

She has two Long Boat and two others

The present state of the Windlass is new Capstan new and Rudder new Pumps new

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 Built under
 - 2nd. On the plating during the progress of rivetting Special Survey between
 - 3rd. When the beams were in and fastened, and before the decks were laid 21st Oct^r 1863 and
 - 4th. When the ship was complete, and before the plating was finally coated 30th May 1864
 - 5th. After the ship was launched

The sheerstrake extends 12" above the gunwale and 38 in. wide, is increased to 10" in thickness, and has a doubling plate 13" x 1/16" for three fourths the length amidships; the stringer plate on the ends of beams is increased in width 10" and for half the length amidships is increased in thickness 2 1/2"; and a bulk plate 4" x 1/16" is fitted at the lower bidge keelson for half the length of the ship amidships.

The vessel is brig rigged and has a full poop and forecabin.

In what manner are the surfaces preserved from oxidation? Red lead + patent paint.

I am of opinion this Vessel should be classed Q. S. 1.

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

Special £ 34/ -

Certificate (if required) £

Committee's Minute 7th June 18 64

Character assigned A 1 for 9 years

Vertical stamp and signature:
J. Pearce
Surveyor
4 June 1864
I concur in the above recommendation
4 June 1864

