

# IRON SHIP.

Rec 14/10/88

No. 14106 Survey held at *Newcastle* Date, First Survey *21<sup>st</sup> March* Last Survey *2<sup>nd</sup> Oct* 18*78*  
On the *Iron Screw Steamer "Japanese"* Master *R. Pinkhan.*

Built at *Newcastle*  
When built *1878* Launched *29 August 1878*  
By whom built *Schlesinger, Davis & Co.*  
Owners *Thos. Sutton.*  
Port belonging to *London.*  
Destined Voyage *Bombay*  
If Surveyed while Building, Afloat, or in Dry Dock.  
*while building.*

TONNAGE under 1766.63  
Tonnage Deck 18.21  
Ditto of Poop, or Raised Or. Dk.  
Ditto of Houses on Deck 53.03  
Ditto of Forecastle  
Gross Tonnage 1837.87  
Less Crew Space 45.94  
Less Engine Room 1791.93  
Register Tonnage 588.12  
as out on Beam 1203.81

ONE, OR TWO DECKED, THREE DECKED VESSEL.  
SPAR, OR AWNING-DECKED VESSEL.  
HALF BREADTH (moulded)... 17.0  
DEPTH from upper part of Keel to top of Upper Deck Beams 26.46  
GIRTH of Half Midship Frame (as per Rule) 39.0  
1st NUMBER 82.46  
1st NUMBER, if a THREE-DECKED VESSEL [deduct 7 feet] 75.46  
LENGTH 268.5  
2nd NUMBER 20261  
PROPORTIONS—Breadths to Length 7 1/2 to 8  
Depths to Length—Upper Deck to Keel 10 to 11  
Main Deck ditto 13 to 14

Official Number

LENGTH on deck as per Rule 268 6 BREADTH—Moulded... 34 0 DEPTH top of Floors to Upper Deck Beams 24 6 Do. do. Main Deck Beams 17 6 Power of Engines 170 Horse. No. of Decks with flat laid Two No. of Tiers of Beams Three

Dimensions of Ship per Register, length, 271.0 breadth, 34.2 depth, 24.65

	Inches in Ship.	Inches per Rule.		Inches in Ship.	Inches per Rule.		Inches in Ship.	Inches per Rule.		Inches in Ship.	Inches per Rule.
KEEL, depth and thickness	9 1/2 x 2 1/2	9 1/2 x 2 1/2	FLAT KEEL PLATES, breadth and thickness	36	12	36	12				
STEM, moulding and thickness	9 x 2 1/2	9 x 2 1/2	PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of doubling at Bilge, or increased thickness, and length applied	10 1/2	11	10 1/2	11				
STERN-POST for Rudder do. do. for Propeller	9 x 5	9 x 5	fm up. part of Bilge to Ir. edge of Sh'rstrake Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Upr. or Spar Dk. Sh'rstrake. Upr. or Spar Dk. Sh'rstrake, brdth & thickness	40	13	40	13				
Distance of Frames from moulding edge to moulding edge, all fore and aft	24	24	Butt Straps to outside plating, breadth & thickness	16 3/4	11 1/4	16 3/4	11 1/4				
FRAMES, Angle Iron, for 3/4 length amidships	5 3 8	5 3 8	Lengths of Plating	120		120					
Do. for 1/2 at each end	5 3 7	5 3 7	Shifts of Plating, and Stringers	48		48					
REVERSED FRAMES, Angle Iron	3 3 7	3 3 7	Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	44	9	44	9				
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	23 1/2	9	Angle Iron on ditto	4 x 4 x 9		4 x 4 x 9					
thickness at the ends of vessel	7	7	Tie Plates fore and aft, outside Hatchways	14	9	14	9				
depth at 3/4 the half-bdth. as per Rule	11 3/4	11 3/4	Diagonal Tie Plates on Beams No. of Pairs, 5/2	14	9	14	9				
height extended at the Bilges	47	47	Planksheer material and scantling	14	9	14	9				
BEAMS, Upper, Spar, or Awning Deck Angle or d'ble Ang. Iron, Plate or Tee Bulb Iron	7	7	Waterways do. Boundary Plank	teak		teak					
Single or double Angle Iron on Upper edge	3 3 6	3 3 6	Flat of Upper Deck do. do.	4 y. p.		4					
Average space	48	48	How fastened to Beams	8 1/2 g. i. r. b.		8 1/2					
BEAMS, Main, or Middle Deck	5 1/2 3 8	5 1/2 3 8	Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	42	9	38	12				
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	8	8	Is the Stringer Plate attached to the outside plating?	yes		yes					
Single, or double Angle Iron, on Upper Edge	3 3 6	3 3 6	Angle Irons on ditto, No. 2	4 x 4 x 9		4 x 4 x 9					
Average space	24	24	Tie Plates, outside Hatchways								
BEAMS, Lower Deck, Hold, or Orlop Single or d'ble Ang. Iron, Plate or Tee Bulb Iron	8	8	Diagonal Tie Plates on Beams, No. of pairs								
Single or double Angle Iron on Upper Edge	3 3 6	3 3 6	Waterways materials and scantlings								
Average space	as per profile covering plate 5	10 frame spaces	Flat of Middle Deck do. do.	6 1/6 iron deck		6 1/6 iron deck					
KEELSONS Centre line, single or double plate, box, or Intercoastal, Plates	17 1/2	13	How fastened to Beams	riveted.		riveted					
" Rider Plate	12	13	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	35	9	35	9				
" Bulb Plate to Intercoastal Keelson	12	13	Is the Stringer Plate attached to the outside plating?	yes		yes					
" Angle Irons	5 1/2 4 9	5 1/2 4 9	Angle Irons on ditto, No. 2	4 x 4 x 9		4 x 4 x 9					
" Double Angle Iron Side Keelson	5 1/2 4 9	5 1/2 4 9	Stringer or Tie Plates, outside Hatchways								
" Side Intercoastal Plate	5 4 9	5 1/2 4 9	Flat of Lower Deck								
" do. Angle Irons	5 4 9	5 1/2 4 9	Ceiling betwixt Decks, thickness and material	none		2 1/2 pine.					
" Attached to outside plating with angle iron	4 4 8	3 3 9	in hold do.	2 1/2 pine.		2 1/2					
BILGE Angle Irons	5 4 9	5 1/2 4 9	Main piece of Rudder, diameter at head	6 3/4		6 3/4					
" do. Bulb Iron	16	7	do. at heel	3 1/2		3 1/2					
" do. Intercoastal plates riveted to plating for length	16	7	Can the Rudder be unshipped afloat?	yes							
BILGE STRINGER Angle Irons	5 4 9	5 1/2 4 9	Bulkheads No. 5 Thickness of	6 1/6		6					
Intercoastal plates riveted to plating for 3/5 length	10	10	Height up Aftermost Bulk. to Middle Deck, remainder to Upper Deck.								
SIDE STRINGER Angle Irons	4 x 4 x 7	4 x 3 x 7	How secured to sides of ship	between double frames							
Transoms, material. Knight-heads. Hawse Timbers.	iron		Size of Vertical Angle Irons	3 x 3 x 7/16 and distance apart	30 ins.						
Windlass iron - Harfield's Patent Pall Bitt	iron		Are the outside Plates doubled two spaces of Frames in length?	yes							

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 *across* middle line to *middle deck* and to *gunwale* 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 7/8* 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 *1/16* 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 1/2* ins. from cr. to cr.  
Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets *7/8* in. diameter, averaging *3 1/2* 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 Spar Sheerstrake, treble riveted *length* amidships.  
Butts of Main Stringer Plate, treble riveted for *1/2* length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for *1/2* length.  
Breadth of laps of plating in double riveting *5 1/4* Breadth of laps of plating in single riveting

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? *Treble and double.*  
Waterway, how secured to Beams *riveted.* (Explain by Sketch, if necessary.)  
Beams of the various Decks, how secured to the sides? *ends turned & knees welded.* No. of Breasthooks, *6* Crutches, *4*  
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? *Angles from Dorman, Long & Co.*  
Manufacturer's name or trade mark, *plates from F. H. & Co. & Bolckow, Vaughan & Co.*

The above is a correct description.  
Builder's Signatures *Schlesinger, Davis & Co.* Surveyor's Signature, *J. H. Fawcett*  
Surveyor to Lloyd's Register of British and Foreign Shipping.

IRON 480-0381



Workmanship. Are the butts of plating planed or otherwise fitted? *planed*

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*

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

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

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

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

21879. *Iron*

Masts, Bowsprit, Yards, &c., are *iron* 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 length 78'-4" diam 24 1/2". Main Mast length 70'-3" diameter 22 1/2" - 2 plates in the round - plates 6" x 5/16" - doubled at wedging - seams double riveted - butts below partners double riveted - elsewhere single riveted - Manufacturers of iron Bolton.*

NUMBER for EQUIPMENT 22140

N <sup>o</sup> .	SAILS.	CABLES, &c.	Fathoms.	Inches.	Test per Certificate.	Length & Size req'd per Rule.	Test req'd per Rule.	ANCHORS.	N <sup>o</sup> .	Weight. Ex. Stock.	Test per Certificate.	Wght req'd per Rule.	Test req'd per Rule.
one	Fore Sails,	Chain	270	1 3/4	55 1/8	270	55 1/8	Bowers	3	30-3-0	29-3-3-0	30	28 1/2
	Fore Top Sails,	R. Burrell Low Walker			77 1/8	1 1/2	77 1/8			30-3-0	29-3-3-0	30	28 1/2
	Fore Topmast Stay Sails	1st August 1878.								25-2-0	25-3-3-0	25 1/2	25 3/20
sub		Hamp Strm Cbl	75	1 1/6	13 1/2 Tons	75-1 1/6		R. Burrell Low Walker					
good	Main Sails,	Hawser ...	90	11		90-11		27 July & 1st August 1878					
	Main Top Sails,	Towlines ...	90	11		90-11		Stream ...	1	12-1-7	12-4-1-14	12	
and		Warp ...	90	7 1/2		90-7		Kedges ...	2	6-1-0	7-7-2-0	6	
		quality good	45	4 1/2						3-0-11	5-0-0-0	3	

Standing and Running Rigging *wire & hemp* sufficient in size and *good* in quality. She has *2 life Long* Boat and *3 others*.

The Windlass is *good* Capstan *good* and Rudder *good* Pumps *good*

Engine Room Skylights. How constructed? *Iron - tank above.* How secured in ordinary weather? *bolted down*

What arrangements for deadlights in bad weather? *Bull's eyes in solid shutters.*

Coal Bunker Openings. How constructed? *Iron casings* How are lids secured? *by studs* Height above deck? *10"*

Scuppers, &c. What arrangements for clearing upper deck of water, in case of shipping a sea? *Side ports and scuppers.*

Cargo Hatchways. How formed? *Plates & angles.*

State size Main Hatch *28' x 12 1/2'* Fore hatch *16' x 10'* Quarter hatch *24' x 11'*

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

What arrangement for shifting beams? *2 shifting web plates at main hatch; d<sup>o</sup> at after hatch; one shifting bulkhead fore hatch.*

Hatches, If strong and efficient? *strong and efficient.*

Order for Special Survey No. <i>22140</i>	1st. On the several parts of the frame, when in place, and before the plating was wrought	<i>1070 March 21. 25. April 29. 10. 24. May 6. 0.</i>
Date <i>20 Dec 1877</i>	2nd. On the plating during the process of riveting	<i>14. 23. 30. June 5. 17. July 1. 4. 10. 16. 23. 31.</i>
Order for Ordinary Survey No. <i>86</i>	3rd. When the beams were in and fastened, and before the decks were laid....	<i>Aug 6. 12. 13. 21. 22. 26. 29. Sep 23. Oct 2.</i>
Date <i>—</i>	4th. When the ship was complete, and before the plating was finally coated or cemented..	
No. <i>86</i> in builder's yard.	5th. After the ship was launched and equipped	

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

*This is a three decked vessel built in accordance with the arrangements shown on the accompanying plans.*

*There is a ballast tank in the fore hold 60 feet in length and another ballast tank in the after hold 74 feet in length. Both ballast tanks have been tested by a head of water to the height of the load line.*

*The quality of the workmanship &c. is good throughout.*

State if *one, two, or three*, decked vessel, or if *open*, or *awning decked*; and the lengths of *poop*, *forecastle*, 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 *100 A. 1*

The amount of the Entry Fee ... £ 5 : : : is received by me, *A. Young.*

Special *paid* £ 69 : 16 : : 12 Oct 1878

Certificate ... : : : :

(Travelling Expenses, if any, £ — )

Committee's Minute 15th October, 1878.

Character assigned

*100 A*

*Log of the ship*

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