

## 18 8/

18 87

Master James Rodg

Built at *Newcastle*  
 When built *1881* x *81* Launched *14<sup>th</sup> May 1881*  
 By whom built *Swan & Hunter*  
 Owners *Wm<sup>rs</sup> Milburn & Co<sup>rs</sup>*  
 Port belonging to *London*  
 Destined Voyage *India*  
 If Surveyed while Building, <sup>^</sup> Afloat, ~~or in Dry Dock~~

Official Number 82889

| LENGTH on deck as per Rule ...  |  |  | BREADTH Moulded...   |           |          | DEPTH top of Floors to Upper Deck Beams Do. do. Main Deck Beams |           |          | Feet. Inches. Power of Engines ...                     |  |  | Horse. No. of Decks with flat laid No. of Tiers of Beams |  |  |
|---|--|--|--|-----------|----------|---|-----------|----------|--|--|--|--|--|--|
| 283   |  |  | 6  |           |          | 35 9 1/2  |           |          | 24 0 14 0  |  |  | 250 2  |  |  |
| Dimensions of Ship per Register, length, 285.8 breadth, 36.0 depth, 24.0  |  |  |  |           |          |   |           |          |  |  |  |  |  |  |
| KEEL, depth and thickness   |  |  | Inches in Ship. 9 1/2 x 3 1/2                                  |           |          | Inches per Rule. 9 1/2 x 2 1/2                                  |           |          |  |  |  |  |  |  |
| STEM, moulding and thickness...   |  |  | 9 x 3 1/2  |           |          | 9 x 3 1/2   |           |          |  |  |  |  |  |  |
| STERN-POST for Rudder do. do.   |  |  | 9 x 5  |           |          | 9 x 5   |           |          |  |  |  |  |  |  |
| " " for Propeller   |  |  | 9 x 5  |           |          | 9 x 5   |           |          |  |  |  |  |  |  |
| Distance of Frames from moulding edge to moulding edge, all fore and aft  |  |  | 24   |           |          | 24  |           |          |  |  |  |  |  |  |
|   |  |  | (Class 100 A)  |           |          |   |           |          |  |  |  |  |  |  |
| FRAMES, Angle Iron, for 1/2 length amidships  |  |  | Inches. 5  | Inches. 3 | 16ths. 8 | Inches. 5   | Inches. 3 | 16ths. 8 |  |  |  |  |  |  |
| Do. for 1/4 at each end   |  |  | 5  | 3         | 4        | 5   | 3         | 4        |  |  |  |  |  |  |
| EVERSED FRAMES, Angle Iron  |  |  | 3  | 3         | 4        | 3   | 3         | 4        |  |  |  |  |  |  |
| FLOORS, depth and thickness of Floor Plate at mid line for half length amidships  |  |  | 23 1/2 x 9   |           |          | 23 1/2 x 9  |           |          |  |  |  |  |  |  |
| thickness at the ends of vessel   |  |  | 4  |           |          | 4   |           |          |  |  |  |  |  |  |
| depth at 1/4 the half bath, as per Rule   |  |  | as per section   |           |          | as per section  |           |          |  |  |  |  |  |  |
| height extended at the Bilges...  |  |  | 4 x 4  |           |          | 4 x 4   |           |          |  |  |  |  |  |  |
| MS, Upper, Spar, or Awning Deck   |  |  | 4 x 4  |           |          | 4 x 4   |           |          |  |  |  |  |  |  |
| or double Angle Iron, Plate or Tee Bulb Iron  |  |  | 3 x 3  |           |          | 3 x 3   |           |          |  |  |  |  |  |  |
| or double Angle Iron on Upper edge  |  |  | 48   |           |          | 48  |           |          |  |  |  |  |  |  |
| Average space...  |  |  | 6 x 3  |           |          | 6 x 3   |           |          |  |  |  |  |  |  |
| MS, Main, or Middle Deck  |  |  | 6 x 3  |           |          | 6 x 3   |           |          |  |  |  |  |  |  |
| Angle or Tee Ang. Iron, Plate or Tee Bulb Iron  |  |  | 24   |           |          | 24  |           |          |  |  |  |  |  |  |
| Angle, or double Angle Iron, on Upper Edge  |  |  | 24   |           |          | 24  |           |          |  |  |  |  |  |  |
| Average space...  |  |  | 9 1/2 x 9  |           |          | 9 1/2 x 9   |           |          |  |  |  |  |  |  |
| BEAMS, Lower Deck, Hold, or Orlop   |  |  | 4 x 4  |           |          | 4 x 4   |           |          |  |  |  |  |  |  |
| Angle or Tee Ang. Iron, Plate or Tee Bulb Iron  |  |  | 4 x 4  |           |          | 4 x 4   |           |          |  |  |  |  |  |  |
| Angle or double Angle Iron on Upper Edge  |  |  | as per profile   |           |          | as per profile  |           |          |  |  |  |  |  |  |
| Average space...  |  |  | 18 x 12  |           |          | 18 x 12   |           |          |  |  |  |  |  |  |
| BELSONS Centre line, single or double plate, box, or Intercoastal, Plates   |  |  | 12 x 12  |           |          | 12 x 12   |           |          |  |  |  |  |  |  |
| Rider Plate   |  |  | 5 1/2 x 4  |           |          | 5 1/2 x 4   |           |          |  |  |  |  |  |  |
| Bulb Plate to Intercoastal Keelson  |  |  | 5 1/2 x 4  |           |          | 5 1/2 x 4   |           |          |  |  |  |  |  |  |
| Angle Irons   |  |  | 8  |           |          | 8   |           |          |  |  |  |  |  |  |
| Double Angle Iron Side Keelson  |  |  | 5 1/2 x 4  |           |          | 5 1/2 x 4   |           |          |  |  |  |  |  |  |
| Side Intercoastal Plate   |  |  | 5 1/2 x 4  |           |          | 5 1/2 x 4   |           |          |  |  |  |  |  |  |
| do. Angle Irons   |  |  | 3 x 3  |           |          | 3 x 3   |           |          |  |  |  |  |  |  |
| Attached to outside plating with angle iron   |  |  | 5 1/2 x 4  |           |          | 5 1/2 x 4   |           |          |  |  |  |  |  |  |
| BILGE Angle Irons   |  |  | 8 1/2 x 8  |           |          | 8 1/2 x 8   |           |          |  |  |  |  |  |  |
| do. Bulb Iron...  |  |  | 5 1/2 x 4  |           |          | 5 1/2 x 4   |           |          |  |  |  |  |  |  |
| do. Intercoastal plates riveted to plating for length   |  |  | 5 1/2 x 4  |           |          | 5 1/2 x 4   |           |          |  |  |  |  |  |  |
| BILGE STRINGER Angle Irons  |  |  | 11 1/2 x 8   |           |          | 11 1/2 x 8  |           |          |  |  |  |  |  |  |
| Intercoastal plates riveted to plating for 1/2 length   |  |  | 5 1/2 x 4  |           |          | 5 1/2 x 4   |           |          |  |  |  |  |  |  |
| SIDE STRINGER Angle Irons   |  |  | 5 1/2 x 4  |           |          | 5 1/2 x 4   |           |          |  |  |  |  |  |  |
| Transoms, material. Knight-heads. Hawse Timbers.  |  |  | Iron   |           |          | Iron  |           |          |  |  |  |  |  |  |
| Windlass  |  |  | Iron Patent  |           |          | Iron  |           |          |  |  |  |  |  |  |
| Pall Bitt   |  |  | Iron   |           |          | Iron  |           |          |  |  |  |  |  |  |
| Flat Keel Plates, breadth and thickness   |  |  | 36   |           |          | 12  |           |          | 36   |  |  | 12   |  |  |
| PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges                                       |  |  | 10 all   |           |          | 10 all  |           |          | 10 all   |  |  | 10 all   |  |  |
| " of doubling at Bilge, or increased thickness, and length applied  |  |  | 10 all   |           |          | 10 all  |           |          | 10 all   |  |  | 10 all   |  |  |
| " fin up part of Bilge to l.r. edge of Sh'rstrake.  |  |  | 40   |           |          | 13  |           |          | 40   |  |  | 13   |  |  |
| " Main Sheerstrake, breadth and thickness of doubling at Sh'rstrake, & length applied from Mn. to Up. or Spar Dk. Sh'rstrake. |  |  | 40   |           |          | 13  |           |          | 40   |  |  | 13   |  |  |
| " Up. or Spar Dk Sh'rstrake, breadth & thickness  |  |  | 11 1/2 x 11 1/2  |           |          | 10 x 14   |           |          | 11 1/2 x 11 1/2  |  |  | 10 x 14  |  |  |
| Butt Straps to outside plating, breadth & thickness   |  |  | 144  |           |          | 120   |           |          | 144  |  |  | 120  |  |  |
| Lengths of Plating  |  |  | 48   |           |          | 48  |           |          | 48   |  |  | 48   |  |  |
| Shifts of Plating, and Stringers  |  |  | 46   |           |          | 9   |           |          | 46   |  |  | 9  |  |  |
| Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness...  |  |  | 4 x 4  |           |          | 9   |           |          | 4 x 4  |  |  | 9  |  |  |
| Angle Iron on ditto   |  |  | 14   |           |          | 9   |           |          | 14   |  |  | 9  |  |  |
| Tie Plates fore and aft, outside Hatchways  |  |  | Diagonal Tie Plates on Beams No. of Pairs                      |           |          | Plank-sheer material and scantling                              |           |          | Iron Gutter  |  |  |  |  |  |
| Waterways do. do.   |  |  | Flat of Upper Deck do. do.                                     |           |          | How fastened to Beams   |           |          | Stringer Plate on ends of Main or Middle Deck          |  |  | Beams, breadth and thickness                             |  |  |
| Is the Stringer Plate attached to the outside plating?  |  |  | Angle Irons on ditto, No. 2                                    |           |          | Tie Plates, outside Hatchways                                   |           |          | Diagonal Tie Plates on Beams, No. of pairs             |  |  | Waterways materials and scantlings                       |  |  |
| Flat of Middle Deck do. do.   |  |  | How fastened to Beams  |           |          | Stringer Plates on ends of Lower Deck, Hold or Orlop Beams      |           |          | Is the Stringer Plate attached to the outside plating? |  |  | Angle Irons on ditto, No.                                |  |  |
| Stringer or Tie Plates, outside Hatchways   |  |  | Flat of Lower Deck   |           |          | Ceiling betwixt Decks, thickness and material                   |           |          | " in hold do. do.                                      |  |  | Main piece of Rudder, diameter at head                   |  |  |
| do. at heel   |  |  | Can the Rudder be unshipped afloat?                            |           |          | Bulkheads No. 5 Thickness of                                    |           |          | Height up one to upper deck & 4 to Main deck           |  |  | How secured to sides of ship                             |  |  |
| Size of Vertical Angle Irons  |  |  | Are the outside Plates doubled two spaces of Frames in length? |           |          |   |           |          |  |  |  |  |  |  |

The **FRAMES** extend in one length from Keel to Gunwale Riveted with plates with 4/8 in. Rivets, about 6 3/4 apart

The **REVERSED ANGLE IRONS** on floors and frames extend across middle line to Main Deck S.O.S 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 1/2 ins. from centre to centre.

" **Edges of Garboards** and to upper part of Bilge, worked clencher, double riveted; with rivets 4/8 in. diameter, averaging 3 3/8 ins. from centre to centre

" **Butts from Keel to turn of Bilge**, worked carvel, double riveted; with rivets 4/8 in. diameter averaging 3 3/4 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 4/8 in. diameter, averaging 3 3/8 ins. from cr. to cr.

" **Butts from Bilge to Main Sheerstrake**, worked carvel, double riveted; with rivets 4/8 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 Spar Sheerstrake, treble riveted 1/2 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 amidships.

" Breadth of laps of plating in double riveting 5 1/2 Breadth of laps of plating in single riveting —

Butt Straps of Keelsons, Stringer and Tie Plates, treble, double ~~or single~~ Riveted? as per Rule

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

Beams of the various Decks, how secured to the sides? Welded knees, riveted No. of Breasthooks, 6 Orutches, 4

What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Angles - Norman Lang & Co.

Manufacturer's name or trade mark, Plates - Stockton Walleable Iron Co.: Lloyd's Regd.

The above is a correct description.

Builder's Signature, *Jr. C. F. Thom & Sons*  
*H. B. Dineen*

Surveyor's Signature,

e, *R. Williamson*  
Surveyor to Lloyd's Register of British and Foreign Shipping.

Angles - Norman Long & Co.

Lloyd's Regi

of British and Foreign Shipping.



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*

Masts, Bowsprit, Yards, &c., are *Iron & Iron* in *good* condition, and sufficient in size and length. If of Iron or Steel give  
Scanlings 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. *Length of Foremast 46.0 x 23 dia. Length of Mainmast 69.0 x 21 dia*

*Each mast is formed of two plates in the round with plates 1/16 & 1/8 thick, with the  
edges double riveted, and the butts double and triple riveted -*

*Maken Name of Man - Stockton Malleable Iron Co.*

| NUMBER for EQUIPMENT 26.056 |                             | Fathoms. | Inches. | Test per<br>Certificate. | Inches per Rule. | Machine where<br>Tested & Supplied. | ANCHORS.  | N <sup>o</sup> . | Weight.<br>Ex. Stock. | Test per<br>Certificate | W'ght req'd<br>per Rule. | Machine where<br>Tested & Supplied. |
|-----------------------------|-----------------------------|----------|---------|--------------------------|------------------|-------------------------------------|---|------------------|-----------------------|-------------------------|--------------------------|-------------------------------------|
| SAILS.                      |                             |          |         |                          |                  |                                     | Bower Anchors   |                  |                       |                         |                          |                                     |
| CABLES, &c.                 |                             |          |         |                          |                  |                                     | (State Machine where<br>Tested, Date, or No. of<br>Certificate, & Name of<br>Superintendent.) |                  |                       |                         |                          |                                     |
| N <sup>o</sup> .            | Chain                       | 240      | 1 1/2   | 59 1/2                   | 82 1/2           | 240 x 1 1/2                         |   | 1                | 32.2.0                | 30.10.0.0               | 32.0.0                   |                                     |
|                             | Fore Sails,                 |          |         |                          |                  |                                     |   | 1                | 32.0.21               | 30.5.1.7                | 32.0.0                   |                                     |
|                             | Fore Top Sails,             |          |         |                          |                  |                                     |   | 1                | 38.1.0                | 24.6.3.0                | 24.1.0                   |                                     |
|                             | Fore Topmast<br>Stay Sails, |          |         |                          |                  |                                     |   |                  |                       |                         |                          |                                     |
|                             | Hmpn Strm Cbl               |          |         |                          |                  |                                     |   |                  |                       |                         |                          |                                     |
|                             | Hawser                      | 90       | 9 1/2   | 90                       | 9 1/2            | 90 x 9 1/2                          | Stream  | 1                | 10.1.24               | 12.8.3.0                | 10.2.0                   |                                     |
|                             | Towlines                    | 90       | 4       | 90                       | 4                | 90 x 12                             | Kedge   | 1                | 5.1.0                 | 7.11.3.14               | 5.1.0                    |                                     |
|                             | Warp                        | 90       | 4 1/2   | 90                       | 4 1/2            | 90 x 7 1/2                          | Ditto   | 1                | 2.2.25                | 5.5.0.0                 | 2.2.0                    |                                     |
|                             | Main Top Sails,             | 180      | 6       | 180                      | 6                | 180 x 6                             |   |                  |                       |                         |                          |                                     |
|                             | and ✓                       | 180      | 5       | 180                      | 5                | 180 x 5                             |   |                  |                       |                         |                          |                                     |

Standing and Running Rigging *Levise hemp* sufficient in size and *good* in quality. She has *2 Life Long* Boats and *2 others*  
The Windlass is *Emerson & Walker's* Capstan *good* and Rudder *good* Pumps *as per pumping plan*

Engine Room Skylights. How constructed? *Steel framing* How secured in ordinary weather? *bolted to coaming*

What arrangements for deadlights in bad weather? *Steel sashes and bulls eyes*

Coal Bunker Openings. How constructed? *Wrought-iron* How are lids secured? *Iron strap* Height above deck? *19*

Scuppers, &c. What arrangements for clearing upper deck of water, in case of shipping a sea? *Seven square ports, one scupper and  
three mooring pipes on each side.*

Cargo Hatchways. How formed? *Iron coamings*

State size Main Hatch *24.0 x 12.0* Fore hatch *8.0 x 12.0* Quarter hatch *20.0 x 13.0 & 12.0 x 12.0*

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

What arrangement for shifting beams? *dup web plates and wood fore and aft.*

Hatches, If strong and efficient? *yes - solid 2 1/2 thick.*

Order for Special Survey No. *147* Date *4th 16th Oct 1880*  
Order for Ordinary Survey No. *157* Date *✓*  
No. *53* in builder's yard.

General Remarks (State quality of workmanship, &c.) *This is a three decked vessel built in accordance*

*with the approved plans herewith appended, and in other respects in accordance with*

*the requirements of the Rules. She has a full Prop 28 feet long, a topgallant fore*

*31 feet long and a Bridge deck house 52 feet long with open ends.*

*She has a water ballast tank extending from side fore to the boiler room bulkhead*

*for a length of 120 feet abaft the point, the same having been duly tested by a head of*

*water to the load-line and found tight and satisfactory, the workmanship throughout is*

*good, and the built straps of shell plating, extending from keel to gunwall are*

*triple riveted for half the vessel's length amidships.*

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

How are the surfaces preserved from oxidation? Inside *Portland cement and Paint* Outside *Paint & Composition*

I am of opinion this Vessel should be Classed *100A1*

The amount of the Entry Fee ... £ 5 : - : - is received by me, *W. S.*

Special ... £ 73 : 5 : - *2nd June 1881*

Certificate *Grati* - : - : -

(Travelling Expenses, if any, £ - - - )

Committee's Minute *Friday, July 22nd 1881.*

Character assigned *100A1*