SIR JAMES CLARK ROSS

3 Decks.

~~IRON OR~~ STEEL STEAMER.

Received at London Office LNDN. 10 AUG 1905

State if Report is also sent on the Machinery of the Vessel Yes

Date of completion of report ..... Port of .....

No. 5941

Survey held at Belfast. Date, First Survey 18th October. 1904 Last Survey August 3rd 1905

On the S.S. Makronda. Rig Schooner

TONNAGE under Tonnage Deck	7318·12
Do. between Tonnage Dk. and 3rd and 4th Dk.	
Total under Upper Dk.	
Do. of Poop	143·23
Do. of ~~Bridge~~ House Round	38·71
Do. of Forecastle	
Do. of Houses on Dk. Side	101·85
Do. of excess of Hatchways	28·02
Do. above Crown of Engine Room	
Gross Tonnage	7629·93
Less Crew Space	181·57
Less above Crown of Engine Room	
Tonnage for Fees	7448·36
Less Engine Room	2441·58
Less Navigation Spaces	85·35
Register Tonnage as cut on Beam	4921·43

THREE DECKED VESSEL.

CLASS 100 A 1.

	FEET.
Half Breadth (moulded)	29·00
Depth from upper part of Keel to top of Upper Deck Beams (with the normal round up of beam)	36·61
Girth of Half Midship Frame (as per Rule)	60·91
	126·52
deduct 7 feet	7·00
1st Number	119·52
Length on deck from after part of stem to fore part of stern post	468
2nd Number	55935
Proportions—Breadth to Length	8·06
Depth to Length—Upper Deck to top of Keel	12·85
Main Deck ditto	

Destined Voyage Calcutta

Master R. Bannatyne

Year of appointment (1) As Master in service of owner of present vessel:—18..... (2) As Master of this vessel 18.....

Built at Belfast

When built 1905 Launched 17th June 1905

By whom built Harland & Wolff Ld.

Owners T. & J. Brocklebank (Ld)

Managers ..... (Where necessary to be entered in Reg. Book.)

Residence .....

Port belonging to Liverpool.

If Surveyed while Building, Afloat, ~~or in Dry Dock~~ Yes.

LENGTH on Deck as per Rule	Feet. 468	Inches. 0	BREADTH—Moulded	Feet. 58	Inches. 0	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams	Feet. 31	Inches. 5	No. of Decks with flat laid	Two.
						Do. do. do. Main Dk. Beams	19	11	No. of Tiers of Beams	Two.

Dimensions of Ship per Register, Length 470·3 breadth 58·4 depth 31·38. Moulded depth, ft. 35 ins. 5 To Upper Dk. Round of Upper Dk. Beam, Actual 12 ins.

FRAMING.	Inches in Ship	Inches in Ship.	20ths in Ship.	Inches per Rule Or as	Inches per Rule Approved.	20ths per Rule
FRAME, ~~Angles or~~ ⌐, [~~or~~ ⌊ Bars for ⅗ length amidships	11×3½×3½		×12	11×3½×3½		×12
Do. for ⅕ at each end Angles	7	3½	11	7	3½	11
Do. in way of Double Bottoms at Solid Floors	3½	3½	10	3½	3½	10
" " at intermdt. Bkts.						
Distance of Frames from moulding edge to moulding edge, all fore and aft	26			26		
REVERSED FRAME, Angles	7	3½	11	7	3½	11
DEEP FRAMING, depth of girder	11			11		
FLOORS, depth and thickness of Floor Plate at mid-line for ⅗ length amidships						
in way of Engines and Boilers						
thickness at the ends of vessel						
depth at ¾ the half breadth, as per Rule						
height extended at the Bilges						
FLOORS & BRACKETS in Cell Dble Bottoms	Flanged		10			10
" Distance apart	26			26		
CENTRE GIRDER, in Double bottom, depth and thickness	60		11	60		11
" " Angles, Top	4	4	10	4	4	10
" " " Bottom	4½	4½	13	4½	4½	13
SIDE GIRDERS, number on each side & thickness 2	Flanged		10	2		10
" " Angles	3½	3½	10	3½	3½	10
MARGIN PLATE, depth (exclusive of flange) and thickness	52½		11	52½		11
" " Angles to Outside Plating	4	4	11	4	4	11
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	42		11	42		11
" " " in Engine and Boiler space		11	& 12		11	-12
" " " Remainder in Holds			9			9
BEAMS, Upper Deck, ~~Single Angle, Bulb Angle, Plate or Tee Bulb~~ Channel	10×3½×3½		13	10×3½×3½		13
" Angles on upper edge						
" Average space	52			52		
BEAMS, Middle Deck, ~~Single Angle, Bulb Angle, Plate or Tee Bulb~~ Channel	12×3½×3½		15	12×3½×3½		×15
" Angles on upper edge						
" Average space	52			52		
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						
" Angles on upper edge						
" Average space						
BEAMS, Hold, or Orlop, Plate or Tee Bulb						
" Angles on upper edge						
" Average space						
BEAMS, Poop Deck, ~~Angle, Bulb Angle, Plate or Tee Bulb~~ Channel	8×3×3×		11	8×3×3×		11
" Angles on upper edge						
" Average space	52			52		
BEAMS, Bridge Deck, ~~Angle, Bulb Angle, Plate or Tee Bulb~~ Channel	9×3½×3½		½	9×3½×3½		12
" Angles on upper edge						
" Average space	52			52		
BEAMS, Forecastle Deck, ~~Angle, Bulb Angle, Plate or Tee Bulb~~	9×3½×3½		12	9×3½×3½		12
" Angles on upper edge						
" Average space	52			52		
PILLARS, In 'tween Deck, size and spacing	3"	52"		3"	52"	
" " Hold " "	4½	52		4½	52	
" Quarter 'tween Dks., " "	3	52		3	52	
" " in Hold " "	4½	52		4½	52	
WEB-FRAMES, In Fore Body, No. and spacing						
" " " brdth. & thickness						
" No. of Side Stringers " "						
WEB-FRAMES, In E. & B. Space, No. & spacing	2	As profile		2	As profile	
" " " brdth. & thickness	24		12	24		12
WEB-FRAMES, In After Body, No. and spacing						
" " " brdth. & thickness						
" No. of Side Stringers " "						
" Size of Angles or Tee-Bars to Web-Frames						
BRACKET PLATES to Stringers between Web Frames, depth and thickness						

FORGINGS or CASTINGS.	Inches in Ship.	Inches per Rule. Or as Approved.
KEEL, Bar ~~or Side Plates~~, depth and thickness	3×10	3×10
STEM, moulding and thickness	12×3½	12×3½
STERN-POST for Rudder do. do.	13×8½	13×8½
" for Propeller	13×8½	13×8½
MAIN PIECE of Rudder, diameter at head	11	10½
" " do. at heel	8¼×7	-

RUDDER, how constructed Single plate

Can the Rudder be unshipped afloat? Yes.

KEELSONS & STRINGERS.	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as	Inches per Rule Approved.	20ths per Rule
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate						
" Rider Plate						
" Bulb Plate to Intercostal Keelson						
" Horizontal Plates on Floors						
" Angles						
SIDE KEELSON, Angles						
" Bulb or Plate above floors, for ..... lng.						
" Intercostal Plate, for ..... length						
" Attached to outside Plating with Angle						
BILGE KEELSON, Angles						
" Bulb or Plate above floors, for ..... lng.						
" Intercostal Plate for ..... length						
" Attached to outside Plating with Angle						
~~BILGE~~ STRINGER Angles 'Tween Dk.	6½	4½	10	6½	4½	10
" Bulb Plate for ..... length						
" Intercostal Plate for full length			10			10
" Attached to outside Plating with Angle	3½	3½	10	3½	3½	10
3 SIDE STRINGERS Angles	6½	4½	15	6½	4½	15
" ~~Bulb or~~ Intercostal Plate, for full lng.			10			10
" Attached to outside plating with Angle	3½	3½	10	3½	3½	10

	Inches in Ship	20ths in Ship	Inches per Rule	20ths per Rule
Upper Deck Stringer Plates, br'dth & thickness	75	15	75	15
" Angle on ditto	6×6	15	6×6	15
" Tie Plates fore and aft, outside Hatchways				
" Deck.* ~~Iron or~~ Steel, for full lng.		9·8		9·8
" Wood Deck. Material & thickness —				
Middle Deck Stringer Plate, br'dth & thickness	75	11	75	11
" Angles on ditto, No. 2	4×4	9	4×4	9
" Tie Plates outside Hatchways				
" Diagonal Tie Plates on Bms., No. of prs.				
" Deck.* ~~Iron or~~ Steel, for full lng.		9·8		9
" Wood Deck. Material & thickness —				
Lower Deck Stringer Plate, br'dth & thickness				
" Angles on ditto, No.				
" Tie Plates, outside Hatchways				
" Deck.* Material and thickness				
Hold, or Orlop Stringer Plate, br'dth & thckn's				
" Angles on ditto, No.				
" Tie Plates outside Hatchways				
" Deck. Material and thickness				
Poop Deck Stringer Plate, breadth & thickness	40	7	40	7
" Angle on ditto	3×3	8	3×3	8
" Tie Plates	21	8	21	8
" Deck. Material and thickness Y.P.	6×3½		6×3½	
Bridge Deck Stringer Plate, br'dth & thickness	45	10	45	10
" Angle on ditto	3½×3½	8	3½×3½	8
" Tie Plates	21	8	21	8
" Deck. Material and thickness Y.P.	6×3½		6×3½	
Forecastle Deck Stringer Plate, b'dth & th'kns	36	8	36	8
" Angle on ditto	3½×3	8	3½×3	8
" Tie Plates				
" Deck. Material and thickness R.P.	6×3½	8	Steel	8

* If Iron or Steel Deck, state if whole or part, and if Wood Deck is laid thereon.

BULKHEADS.	Number. In Vessel.	Number. Per Rule.	Thickness. 20ths.	Stiffeners. ~~Horizontal~~ Size. Inches.	Stiffeners. Spacing. Inches.	Stiffeners. Vertical Size. Inches.	Stiffeners. Vertical Spacing. Inches.	Single or Double Frames.	Height up.
W. T. BULKHEADS	7	7	8-7	8×3½	×3½	× 14-10 / 20	30"	Dbl.	U. Dk.
PARTITION "									
LONGITUDINAL "									

Are the outside Plates doubled two spaces of Frames in length? App^d liners

Are the ~~Sluice Valves and~~ Watertight Doors in efficient working order? Yes.

Form No. 1B. 9-96

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W133-0255 (1/2)

PLATING. / RIVETING.

STRAKES.	As in Ship: Amidship Breadth (Inches)	Amidship Thickness (20ths)	Forward Thickness (20ths)	Aft Thickness (20ths)	Per Rule or as Approved: Amidship Breadth (Inches)	Amidship Thickness (20ths)	Edges: Single or Double	Breadth of Lap (Inches)	Rivets Diam. (Inches)	Rivets Spacing cr. to cr. (Inches)	Butts: Double or Treble and for what Length	Rivets Diam. (Inches)	Rivets Spacing cr. to cr. (Inches)	Straps Breadth (Inches)	Straps Thickness (20ths)	If Lapped Breadth (Inches)	For what Length (Feet)
Flat Plate Keel (If Bar Keel, state Riveting)	53	20	16	18	53	20	Dbl	6 3/4	1 1/8	4 1/3	Tbl.	1 1/8	4	22	14-13		
Garboard or A Strake	54 1/2	15	15	14	36	15	"	6	1	3 5/7	Quad	1	3 1/2			14 1/2	1/2 L
B		13	13	13		13	"	5 1/4	7/8	3 1/4	Tbl	7/8	3 1/8			10 3/4	Full
C		13	13	13		13	"	"	"	"	Quad	"	"			12 1/2	1/2 L
D		13	13	16		13	"	"	"	"	Tbl.	"	"			9 3/4	Full
E		13	13	16		13	"	6	1	3 5/7	Quad	"	"			12 1/2	1/2 L
F		14	11	16		14	"	"	"	"	Tbl	1	3 1/2			10 3/4	Full
G		14	11	16		14	"	"	"	"	Quad	"	"			14 1/2	1/2 L
H		14	11	14		14	Dbl & Tbl	"	"	"	Tbl	"	"			10 3/4	Full
J		14	11	14		14	"	"	"	"	Quad	"	"			14 1/2	1/2 L
K		14	11	14		14	"	"	"	"	Tbl	1	"			10 3/4	Full
L		14	11	14		14	Dbl	"	"	"	Quad	"	"			14 1/2	1/2 L
M		14	11	14		14	"	"	"	"	Tbl	"	"			10 3/4	Full
N		14	11	14		14	"	"	"	"	Quad	"	"			14 1/2	1/2 L
O		14	11	11		14	"	"	"	"	Tbl	"	"	19	14		Full
Sheerstrake P	46	16	13	13	46	16					Tbl	"	"	22 1/2	16		
Q																	
R																	
Doubling of Flat Plate Keel	Bar Keel in lieu																
Length and thickness of Bilges																	
of Sheerstrakes	Full	14				14											
of Strake below	"	14				14											
Poop Sides				6-5/16			Sgl.	2 1/2	3/4	3 3/8	Dbl	3/4	2 5/8			5	Full
Bridge Sides			10-12-9				Sgl & Dbl	4 1/2-2 1/2, 5 1/4-3	3/4-7/8	3 1/4	Tbl	7/8-3/4	3 1/8 2 5/8			10 3/4 8 3/4	"
Forecastle Sides				6-5/16			Sgl.	2 1/2	3/4	3 3/8	Dbl.	3/4	2 5/8			5	"

Write 'Sheer Strake' opposite its corresponding letter. State actual thickness in way of Double Bottom.

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c.? Open hearth, Palmers, Steel Co of Scotland, South Durham, Dowlais Cardiff, D Colvilles & Sons, W. Beardmore & Co Glasgow I & S. Co Glengarnock, J. Dunlop & Co Lanarkshire S. Co Shelton I & S. Co, Dorman Long & Co

Has the Steel been tested as required by the Rules? Yes.

Upper Deck Stringer Plate { **Butts,** ~~treble~~ quad riveted for 3/5 ths length amidship. **Straps,** ~~single, double or~~ overlapped for whole length amidship.

Middle Deck Stringer Plate { **Butts,** treble riveted for whole length amidship. **Straps,** ~~single, double or~~ overlapped for whole length amidship.

Butts of Bilge & Side Stringers and Tie Plates, treble ~~or double~~ riveted?

Inner Bottom Plating, riveting of **Edges** double. **Butts** treble & double

Centre Girder Butts, quad riveted. **Keelson Butts,** riveted.

Frames, riveted through Plates with 1 & 7/8 in. Rivets, about 6 & 5 1/4 apart.

Rivets, state whether Iron or Steel Iron & Steel

FRAMES extend in one length from Centre girder to Margin plate & from Margin plate to gunwale

REVERSED FRAMES on floors and frames extend from Centre girder to Margin plate & from Margin plate to gunwale and Forecastle Dk alternately. Channel frames amidships.

MASTS, SPARS, &c.

Lower Masts	Material	Total Length	At Partners	Heel	Hounds	Head	No. of Plates in round	Angles Number	Angles Size	Riveting Seams	Riveting Butts
Fore	Steel	91.6	26 × 8/20	25 × 8/20	16 × 7/20	8 × 6/20	3	3	3 1/2 × 3 × 7/16	Single	Double, Single
Main	"	94.0	26 × 8/20	25 × 8/20	16 × 7/20	8 × 6/20	3	3	3 1/2 × 3 × 7/16	Single	& Quad.
Mizen	—										

Bowsprit

Topmasts, Yards and Remainder of **Spars** Pitch Pine

Rigging, Material and Size, **Shrouds** Steel wire 4" **Stays** 4" Steel wire Double.

Sails. One Suit of fore & aft. Sails, and the following spare sails —

EQUIPMENT No. 6138 6 LETTER C† New Table 22 ANCHORS.

Number of Certificate	Anchors	Weight, ex. Stock Cwts.	qrs.	lbs.	Weight of Stock Cwts.	qrs.	lbs.	Test, per Certificate Tons.	cwts.	qrs.	lbs.	Weight Required by Table 22 Cwts.	qrs.	lbs.	Description of Anchor	Makers	Where and when tested and Superintendent
53988	1st Bower	77	1	14	Stockless			57	8	3	0	77	0	0	Halls Cast Steel	N. Hingley & Sons	LPHN 31/5/05 H Green
53989	2nd	77	0	14	"			57	8	3	0	77	0	0	Head. "	"	" 31/5/05 "
54003	3rd	65	1	7	"			51	5	0	0	65	2	0	"	"	" 5/6/05 "
	4th																Hammer Drop
	Collective weight	219	3	7								219	2	0			& Bend tests
53765	Stream	21	3	16	5	2	20	22	7	2	0	22	0	0	Trotmans	"	" 11/5/05 "
56662	Kedge	11	0	15	2	3	25	13	2	2	0	10	0	0	"	"	" 8/12/03 "

Retested by fire proving jaws 8/11/04

CHAIN CABLES.

Number of Certificate	Fathoms	Size	Test per Certificate Tons	Weight of Chain Cable Supplied	Per Table 22	Fathoms and Size per Table 22	Description	Makers of Cables	When and where tested, and Superintendent
36805	150	2 7/16	149 5/8	444.3.25	890.1.4	300 × 2 7/16	Stud	N. Hingley & Sons	LPHN 5/16/05
36838	150	"	106 2/10	445.1.20			"		" 31/16/05
	300			890.1.17					H Green Supt.
Stream Chain or Steel Wire	120	5	59			120 - 5"	Stl Wire		

HAWSERS AND WARPS.

	Material	Fathoms	Size	Breaking Test of Steel Wire Towline	Fathoms and Size per Table 22
Towline		130	5 3/4	78	130 - 5 3/4
Hawser	2 Do	90	3 1/2	26	100 - 8" Man
Warp	2 Do	90	3	18	4 Do
Warps	4 Do	100	8"	Man.	
	4 Do	100	7"	Man	

Boats 2, 28 ft life boats & 4, 26 ft cutters

Pumps, Number Seven Diameter of Barrel 6" State whether they are in efficient working order Yes.

Windlass is Iron patent **Capstan**

Engine Room Skylights.—How constructed? Steel plates

What arrangements for deadlights in bad weather? Steel shutters & bulls eyes

Coal Bunker Openings.—How constructed? Steel coamings How are lids secured? Battened Height above deck? 9"

Number of **Scuppers,** and numbers and dimensions of **Freeing Ports, &c.** 8 Scuppers. 11 Wash ports. 3.0 × 1.0 each side.

Ceiling in Holds, thickness and material R.P. 2 1/2 Under hatchways only **Ceiling 'tween Decks,** thickness and material 2" Red Pine.

Cargo Hatchways.—How formed? Steel coamings **Hatches,** If strong and efficient? Yes.

State size **No. 1 Hatch** (Forward) 21.8 × 16.0 **No. 2 Hatch** 30.4 × 17.0 **No. 3 Hatch** 21.8 × 16.0 **No. 4 Hatch** 30.4 × 17.0 No 5 Hatch 21.8 × 16.0

Number of **Web Plates, Shifting Beams** and **Fore** and **Afters** to each Hatch Nos 1.2 & 3, 2 Webs 2 beams. Nos 2 & 4, 3 Webs. 3 beams.

~~No. of~~ **Breasthooks** 8 **No. of Crutches** 3 & deep floors

Bulwarks, height above deck and description 4.6" × 6/20 Main Rail, material and size Steel bulb angle 6 × 3 1/2 × 10/16

The above is a correct description. FOR HARLAND & WOLFF LTD.

Builder's Signature (here only) A. M. Carlisle

Surveyor's Signature E. J. Milton

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

Form No. 1B.

Correspondence.—State dates and initials of letters respecting this case (*Reference should be made to any correspondence connected with this case*)
M. 2.9.04. 20.2.05

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

Is the riveted work properly closed? Yes.

Are the liners between the frames 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 plating? Very few

Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes

Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par. 24)? Yes State results of tests Satisfactory

Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? Yes State results of tests Satisfactory

General Remarks (State quality of workmanship, &c.) This vessel has been built in accordance with the Rules and the approved plans and the Secretary's letters of above dates.
The workmanship and materials are good throughout.
Close ceiling is fitted over the limbers and under the hatchways only, as specified by the Owners.
No cement has been laid on the inner surface of the shell plating inside the double bottom except over the sunken strakes and in the Boiler space. Cement laid elsewhere as usual. Specified by the Owners.

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 50.5 ft., R.Q.D. or Break ft., Bridge Dk. 86.6 ft., F'castle 51.2 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated not joined

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) 2 Dks (Stl) and deep framing

Official No. ; Signal Letters

How are the surfaces preserved from oxidation? Inside Portland Cement & Paint Outside Paint.
Cemented only on raised strakes of plating in Cell Db. Thick wash elsewhere.

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors Cell DB.

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	138.8	671	Fore peak tank,		
Double bottom, under Engines and Boilers,	82.4	468	After peak tank,	13.0	87
Double bottom, if under Engines only,			Midship deep tank,		
Double bottom, if under Boilers only,			Other tanks, if fitted,		
Double bottom, forward,	179.10	877 / 2016	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.

State whether the above have been tested as required by the Rules Yes.

Order for Special Survey No. 491
Date 16th Oct 1904
No. 869 in builder's yard.

Dates of Surveys held while building: 1904. Oct 18.22.27. Nov 3.5.8.11.25.28. Dec 1.13.15.20.23. 1905 Jan. 4.10.12.18. 19.23.25.27.31. Feb 1.3.14.15.20.21.23.25.28. Mar 2.6.9.14.17.21.24. Apl 4.7.11.13.18.20.28. May 2.5.10.16.18.23.29. June 2.6.9.13.14.16.19.21.26.29.30 July 4.7.17.18.19.24.25.26.27.28 Aug 1.3

Total No. of Visits 76

The amount of Entry Fee £ 5 : 0 : 0
Special Survey Fee £211 : 4 : 0
Travelling Expenses, if any £ : :

Fees applied for, 8/8/1905
Received by me, 15.8.05

Certificate to be sent to This Office.

State whether the Vessel has been built under Special Survey Yes.

I am of opinion this Vessel should be Classed ✠ 100 A. 1. Steel.

With, or without Freeboard, as condition of Class Without

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

Committee's Minute FRI. 11 AUG 1905
Character assigned 100 A1
(subject,
Lloyds a & c. [illegible] + LMC 8.05
Elec light

The Surveyors are requested not to write on or below the Committee's Minute.

15/8/05

W133-0255

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