3 Decks.

~~IRON OR~~ STEEL STEAMER.

SAT. 6 APL 1907

Received at London Office

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

Port of Belfast

No. 6283

Date of completion of report

Survey held at Belfast — Date, First Survey 26th July 1906 — Last Survey 26th March 1907

On the S.S. Chyebassa — Rig Schooner

THREE DECKED VESSEL.

CLASS 100 A.1.

TONNAGE under Tonnage Deck	5910·39
Do. between Tonnage Dk. and 3rd and 4th Dk.	
Total under Upper Dk.	
Do. of Poop	110·26
Do. of ~~Bridge~~ Round House	52·72
Do. of Forecastle	48·42
Do. of Houses on Dk.	111·53
Do. of excess of Hatchways	8·98
~~Do. above Crown of Engine Room~~ Chart House	6·43
Gross Tonnage	6248·73
Less Crew Space	176·45
Less above Crown of Engine Room	
TONNAGE FOR FEES	6072·28
Less Engine Room	1999·59
Less Navigation Spaces	81·12
Register Tonnage as cut on Beam	3991·57

	FEET.
Half Breadth (moulded)	27·00
Depth from upper part of Keel to top of Upper Deck Beams (with the normal round up of beam)	35·96
Girth of Half Midship Frame (as per Rule)	58·94
	121·90
deduct 7 feet	7·00
1st Number	114·90
Length on deck from after part of stem to fore part of stern post	427·96
2nd Number	49173
Proportions—Breadth to Length	7·9
Depth to Length—Upper Deck to top of Keel	11·9
Main Deck ditto	15·58

Master George G. C. Stevenson

Year of appointment (1) As Master in service of owner of present vessel: 1875; (2) As Master of this vessel 19

Built at Belfast

When built 1906-7 Launched 21st Feby 1907

By whom built Workman Clark & Co

Owners British India Steam Nav. Co

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

Residence 9 Throgmorton Av. London

Port belonging to Glasgow

Destined Voyage Glasgow — If Surveyed while Building & Afloat, ~~or in Dry Dock~~ Yes

LENGTH on Deck as per Rule	Feet. 427	Inches. 11	BREADTH—Moulded	Feet. 54	Inches. 0	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams / Do. do. do. do. Main Dk. Beams	Feet. 32 / 23	Inches. ½ / 6½	No. of Decks with flat laid 2 / No. of Tiers of Beams 3

Dimensions of Ship per Register, Length 430·2 breadth 54·35 depth 32·0. Moulded depth, ft. 34 ins. 10 To Upper Dk. Round of Upper Dk. Beam, Actual 13½ ins.

FRAMING.	Inches in Ship.	Inches in Ship.	~~16ths or~~ 20ths in Ship.	Inches per Rule Or as	Inches per Rule Approved.	~~16ths or~~ 20ths per Rule
FRAME, ~~Angles, or ⅃, E~~ or L Bars for ⅗ length amidships	9	3½	13	9	3½	13
Do. for ⅕ at each end	9	3½	12	9	3½	12
Do. in way of Double Bottoms at Solid Floors	3½	3½	9·8	3½	3½	9·8
" " at intermdt. Bkts.						
Spacing of Frames from centre to centre	26			26		
REVERSED FRAME, Angles… in E&B space	5½	3½	10	5½	3½	10
DEEP FRAMING, depth of girder 10½ 20	9			9		
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			9·8			9·8
" " state if flanged (top & bottom)	No					
" " Spacing	26			26		
CENTRE GIRDER, in Double bottom, depth and thickness	47		11·9	47		11·9
" " Angles, Top	4	4	10·9	4	4	10·9
" " " Bottom	5	5	12·11	5	5	12·11
SIDE GIRDERS, number on each side & thickness	2		9·8	2		9·8
" " state if flanged (top and bottom)	No					
" " Angles	3½	3½	9	3½	3½	9
MARGIN PLATE, depth (exclusive of flange) and thickness	36½		12·11	36		12·11
" " Angles to Outside Plating	4	4	11	4	4	11
" " " Floors	3½	3½	9	3½	3½	9
" " Height of Floors at the Bilges	72			72		
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	47		11·9	47		11·9
" " " in Engine and Boiler space			12·11			12·11
" " " Remainder in Holds			9·8·7			9·8·7
BEAMS, Upper Deck, ~~Single Angle, Bulb Angle, Plate or Tee Bulb~~ Channel	10	3½	14	10	3½	14
" Angles on upper edge						
" Spacing	52			52		
BEAMS, Middle Deck, ~~Single Angle, Bulb Angle, Plate or Tee Bulb~~ Channel	12	3½	14	12	3½	14
" Angles on upper edge						
" Spacing	52			52		
BEAMS, Lower Deck, ~~Single Angle, Bulb Angle, Plate or Tee Bulb~~ Channel	12	3½	14	12	3½	14
" Angles on upper edge						
" Spacing	52			52		
BEAMS, Hold, or Orlop, Plate or Tee Bulb						
" Angles on upper edge						
" Spacing						
BEAMS, Poop Deck, ~~Angle, Bulb Angle, Plate or Tee Bulb~~ Channel	8	3½	10	8	3½	10
" Angles on upper edge						
" Spacing	52			52		
BEAMS, Bridge Deck, ~~Angle, Bulb Angle, Plate or Tee Bulb~~ Channel	8	3½	12	8	3½	12
" Angles on upper edge						
" Spacing	52			52		
BEAMS, Forecastle Deck, ~~Angle, Bulb Angle, Plate or Tee Bulb~~ Channel	8	3½	12	8	3½	12
" Angles on upper edge						
" Spacing	52			52		
PILLARS, In 'tween Deck, size and spacing	52			52		
" " Hold " "						
2 Rows Quarter 'tween Dks., " "	2⅞	3⅜	2¾	2⅞	3⅜	2¾
" " in Hold " "	4½	5	5¼	4½	5	5¼
WEB-FRAMES, In Fore Body, No. and spacing						
" " " brdth. & thickness						
" No. of Side Stringers " "						
WEB-FRAMES, In E. & B. Space, No. & spacing	Additional reverses			fitted in lieu		
" " " brdth. & thickness	5½	3½	10			
WEB-FRAMES, In After Body, No. and spacing	App^d 23/6/06					
" " " 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		
STEM, moulding and thickness	10⅜ × 3¾	app^d 5/7/06
STERN-POST for Rudder do. do.	12½ × 7¾	12½ × 7¾
" for Propeller	Do	Do
MAIN PIECE of Rudder, diameter at head	10½	10½
" " do. at heel	8	8

RUDDER, how constructed Single plate round post

Can the Rudder be unshipped afloat? Yes.

KEELSONS & STRINGERS.	Inches in Ship	Inches in Ship.	~~16ths or~~ 20ths in Ship.	Inches per Rule Or as	Inches per Rule Approved.	~~16ths or~~ 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						
" Bulb Plate for length						
" Intercostal Plate for length						
" Attached to outside Plating with Angle						
2 SIDE STRINGER Angles	6½	4½	15·13	6½	4½	15·13
" Bulb or Intercostal Plate, for full lng.			10·9			10·9
" Attached to outside plating with Angle	3½	3½	10·9	3½	3½	10·9
Upper Deck Stringer Plates, br'dth & thickness	62		13	62		13
" Angle on ditto 4×4×9·8	5×5		11·10	5×5		11·10
" Tie Plates, outside Hatchways						
" Deck.* ~~Iron or~~ Steel, for full lng.			10·9·8			9·8
" Wood Deck. Material & thickness						
Middle Deck Stringer Plate, br'dth & thickness	62		11	62		11
" Angles on ditto, No. 2	4×4		9·8	4×4		9·8
" Tie Plates outside Hatchways						
" Diagonal Tie Plates, No. of pairs						
" Deck.* ~~Iron or~~ Steel, for full lng.			8·7			8·7
" Wood Deck. Material & thickness						
Lower Deck Stringer Plate, br'dth & thickness	57		10	57		10
" Angles on ditto, No. 2	4×4		9·8	4×4		9·8
" Tie Plates, outside Hatchways	25		10·8	25		10·8
" Deck.* Material and thickness Nil						
Hold, or Orlop Stringer Plate, brdth & thckn's						
" Angles on ditto, No.						
" Tie Plates outside Hatchways						
" Deck. Material and thickness						
Poop Deck Stringer Plate, breadth & thickness	42		8	42		8
" Angle on ditto	4×4		8	4×4		8
" Tie Plates	18		8·6	18		8·6
" Deck. Material and thickness P.P.	3½			3½		
Bridge Deck Stringer Plate, br'dth & thickness	47		9	57		9
" Angle on ditto	4×4		9	4×4		9
" Tie Plates						
" Deck. Material and thickness Steel & P.P.	3"		7·6	3"		7·6
Forecastle Deck Stringer Plate, b'dth & th'kns	42		8	42		8
" Angle on ditto	4×4		8	4×4		8
" Tie Plates						
" Deck. Material and thickness Steel			8·6			8·6

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

BULKHEADS.	Number. Vessel.	Number. Per Rule.	Thickness. ~~16ths or~~ 20ths.	STIFFENERS. ~~Horizontal~~. Size. Inches.	Spacing. Inches.	Vertical. Size. Inches.	Spacing. Inches.	Single or Double Frames.	Height up.
W. T. BULKHEADS / PARTITION " / LONGITUDINAL "	7	7	8·7	10×3½×3½× 12·10/20; 8×3½×3½× 10·9/20; 7×3½×3½× 10·9/20			30"	Sgl.	U. Dk.

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. 250,11.6.

W535-0043 1/2

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PLATING. / RIVETING.

STRAKES.	As in Ship: Amidship Breadth (Inches)	Amidship Thickness (20ths)	Forward Thickness	Aft Thickness	Per Rule or as Approved: Amidship Breadth	Thickness	Edges: Single or Double	Breadth of Lap	Rivets Diam.	Spacing cr. to cr.	Butts: Double or Treble and for what Length	Rivets Diam.	Spacing cr. to cr.	Straps Breadth	Straps Thickness	If Lapped Breadth	For what Length
Flat Plate Keel (If Bar Keel, state Riveting.)	46	23	15	15	46	23	Dbl	6¾	1⅛	4½	Tbl	1⅛	3½	21½	16-14		
Garboard or A Strake	52	16	14	14	52	16	"	6	1	3 5/7	"	1	3½			10½	Full
B		13	11	14		14	"	5¼	7/8	3¼	Quad	7/8	3½			12½	½ L
C		12	10	11s		13	"	"	"	"	"	"	"			"	"
D		14	11	16		14	"	"	"	"	"	1	4			14½	"
E		13	10	16		13	"	"	"	"	"	7/8	3½			12½	"
F		14	11	14		14	"	"	"	"	"	1	4			14½	"
G		13	10	13		13	"	"	"	"	"	7/8	3½			12½	"
H		14	10	14		14	"	"	"	"	"	1	4			14½	"
J		13	10	13		13	"	"	"	"	"	7/8	3½			12½	"
K		14	11	14		14	"	"	"	"	"	1	4			14½	"
L		15	10	10		15	"	6	1	3 5/7	"	"	"			"	"
Sheerstrake M	46	17	12	12	46	17	Dbl & Sgl	6-3½	"								
N																	
O																	
P																	
Q																	
R																	
S																	
Doubling of Flat Plate Keel	Increased in lieu																
Length and thickness of Bilges / of Sheerstrakes / of Strake below	Increased in lieu																
Poop Sides		30	8			8	Sgl	2½	3/4	3¼	Dbl	3/4	2 5/8			5	Full
Bridge Sides		9				9	Dbl & Sgl	4½-2½	"	"	"	"	"			"	
Forecastle Sides			8			8	Sgl	2½	"	"	"	"	"			"	

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.? Siemens Martin:- Barrow. South Durham, Glasgow I & S. Co Lanarkshire Steel Co. Steel Co of Scotland. Dorman Long & Co Dowlais Cardiff. Clyde Bridge. David Colville & Sons

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

Upper Deck Stringer Plate { Butts, ~~treble~~ Quad riveted for half length amidship. Straps, ~~single, double or~~ overlapped for full length ~~amidship~~.
Middle Deck Stringer Plate { Butts, treble riveted for full length ~~amidship~~. Straps, ~~single, double or~~ overlapped for full length ~~amidship~~.
Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? Dbl
Inner Bottom Plating, riveting of Edges Dbl & Sgl. Butts Dbl
Centre Girder Butts, Tbl. riveted Keelson Butts, Tbl. riveted.
Frames, riveted through Plates with 1 & 7/8 in. Rivets, about 7-6 & 5 ~~ins~~ apart.
Rivets, state whether Iron or Steel Iron.

FRAMES extend in one length from Centre girder to margin plate & to Gunwale State if ordinary or joggled Bulb angle
REVERSED FRAMES on floors and frames extend from centre girder to margin plate State if ordinary or joggled Bulb angle
Frames & Reverse frames Joggled in Cell D.B.

MASTS, SPARS, &c.

Lower Masts	Material	Total Length	Diameter and Thickness: At Partners	Heel	Hounds	Head	No. of Plates in round	Angles: Number	Size	Riveting: Seams	Butts
Fore	Steel	85'6"	24 × 8/20	23 × 7/20	19 × 7/20	9 × 4/20	Two	✓	✓	Single	Tbl & Dbl
Main	"	"	"	"	"	"	"			"	"
Mizen											

Bowsprit
Topmasts, Yards and Remainder of Spars Pitch Pine. Stays 4½. 4. 3¼. 3. 2¾
Rigging, Material and Size, Shrouds 4 & 3½ steel wire
Sails. One Suit of Fore and aft. Sails, and the following spare sails None

EQUIPMENT No. 54002 LETTER at. 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
58920	1st Bower	69	0	13	Stockless			53	7	2	0	68	0	0	Halls Cast Steel	N. Hingley & Son	L.P.H.N. 12/3/07
58959	2nd	67	0	5	"			52	5	0	0	68	0	0	Head "	"	" 19/3/07
58921	3rd	58	3	27	"			47	15	0	0	58	2	0	"	"	" 12/3/07
	4th																
	Collective weight	195	0	17								194	2	0			
58917	Stream	19	2	4	4	3	2	20	8	1	21	19	0	0	Rodgers	"	" 9/3/07
58918	Kedge	8	1	10	2	0	3	10	10	0	0	8	0	0	"	"	" 9/3/07

If Patent state Name of Patentee. If Stockless, state Mechanical Tests. Hammering, drop and Bend tests. H Green Supt.

CHAIN CABLES.

Number of Certificate	Length supplied (Fathoms)	Diam. (Ins.)	Test per Certificate Statutory (Tons)	Breaking (Tons)	Weight of Chain Cable Supplied (Cwts. qrs. lbs.)	Per Table 22	Length per Table 22 (Fathoms)	Diam. (Ins.)	Description	Makers of Cables	Where and when tested, and Superintendent
40665	135	2 5/16	96¼	134¾	362. 0. 10	720 3 4	270	2 5/16	Stud	N. Hingley & Sons	L.P.H.N. 9/3/07
40662	135	2 5/16	"	"	360. 2. 13				"	"	" 6/3/07
					722. 2. 23						H Green Supt
~~Iron~~ Stream ~~Chain~~ or Steel Wire	90	5 (Cir.)	59				90	5 (Cir.)			

HAWSERS AND WARPS

	Length supplied (Fathoms)	Cir. (In.)	Breaking Test of Steel Wire Towline (Tons)	Length per Table 22 (Fathoms)	Cir. (Ins.)
TOWLINE	120	5¼	71	120	5¼
HAWSERS & WARPS	90	3½	2 Do	Supplied by Owner	
" "	90	2¾	2 Do		
" "	90	2½	1 Do	2 Do 90	8"
" " 2 of	90	8"	7" Manilla	1 Do 90	7"

Lifeboats 26 × 8 × 3-3 Cutter 22 × 7-3 × 2-10. Gig 20 × 6 × 2-3.

Boats 2 Life and 2 Cutters
Pumps, Number 10 Diameter of Barrel 5½ & 3" State whether they are in efficient working order Yes
Windlass is Iron patent Capstan Iron patent
Engine Room Skylights.—How constructed? Steel casings
What arrangements for deadlights in bad weather? Steel shutters & Glass lights
Coal Bunker Openings.—How constructed? Steel coamings How are lids secured? Battened Height above deck? Bridge 12"
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 2 Scuppers Open rails in sections
Ceiling in Holds, thickness and material 2½ W.P. Over limbers and under hatchways only Cargo Battens, thickness and material 2" W.P.
Cargo Hatchways.—How formed? Steel plates Hatches, If strong and efficient? Yes.
State size No. 1 Hatch (Forward) 21'8" No. 2 Hatch 17'4" No. 3 Hatch 8'8" No. 4 Hatch 26" No 5 21'8"
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 2 Webs in Nos 1. 4 & 5, 1 Web in No 2. 3 Beams in No 1. 4. 5
2 Beams in No 2, 1 in No 3. No. of Breasthooks 8 No. of Crutches 3 & Deep floors.
Bulwarks, height above deck and description 45" 5/20 Steel plating Main Rail, material and size Bulb angle section 3/8 × 6"

The above is a correct description. The Workman, Clark & Co., Limited. Surveyor's Signature E J Milton

Builder's Signature (here only) [signature] Secretary 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 the case*) M 15.6.06. 23.6.06. 5.7.06. 11.9.06.

Workmanship. Are the butts of plating planed or otherwise fitted? Planed and lapped.
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 the 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 Good
Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? Yes State results of tests Good
General Remarks (State quality of workmanship, &c.) This vessel has been built in accordance with the Rules, the approved plans and the Secretarys letters quoted above.
The workmanship and materials are good throughout.
The close ceiling is fitted over the limbers and under the hatchways only, in accordance with the Owners specification.

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 39 ft., R.Q.D. or Break ft., Bridge Dk 82.25 ft., F'castle 43 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) 3 tr Beams & Deep framing
Official No. 124171 ; Signal Letters State if Machinery is fitted aft No
How are the surfaces preserved from oxidation? Inside Portland cement & Paint Outside Paint

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,	130	360	Fore peak tank,	23	95
Double bottom, under Engines and Boilers,	67.2	260	After peak tank,	13	20
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	156	490	Other tanks, if fitted,		
Total capacity of double bottom		1110	(If necessary, furnish further information by sketch.)		

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

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

Order for Special Survey No. 513
Date 17th Novr 1906
No. 240 in builder's yard.

Dates of Surveys held while building: 1906 July 26.30. Aug 3.8.10,28.31. Sepr 4.6.12.14.18.20.21,26.28. Octr 1.2.4.8.10.17 19.22/26.29 Novr 1.5.8.13.15.16.22.27.30. Decr 3.5.7.11.14. Jany 2.8.10,14, 15,17,18.23,24.29.30. Feby 4.5.8.12.15.18.21,26.28. March 5.6.8.11.13, 18,20.22,25,26

Total No. of Visits 69

The amount of Entry Fee £ 5 : 0 : 0
Special Survey Fee £ 176 : 16 : 0
Travelling Expenses, if any £ : :
Fees applied for, 4/4 1907
Received by me, 10.4 1907

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 TUES. 9 APL 1907
Character assigned 100 A1 (Stl) [initials]

Lloyd's arcP + Lmc 3.07

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

Certificate issued 11/4/07.

W535-0063 2/2

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