

# With or Without Disconnected Erections.

## STEEL STEAMER.

Received at London Office **WHL 16 FEB 1910**

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

Date of completion of report *13th February 1910* Port of *Belfast*  
Survey held at *Belfast* Date, First Survey *29th June 1909* Last Survey *7th February 1910*  
On the *Steel Steamer* "RANGATIRA" Rig *fore & aft schooner*

**TONNAGE under**  
Tonnage Deck...  
Do. between Tonnage Dk. and 3rd and 4th Dk.  
Total under Upper Dk. *6987.89*  
Do. of Poop...  
Do. of R.Q.Dk.  
Do. of Bridge House...  
Do. of Forecastle...  
Do. of Houses on Dk. *222.87*  
Do. of excess of Hatchways...  
Do. above Crown of Engine Room...  
Gross Tonnage *7465.31*  
Less Crew Space...  
Less above Crown of Engine Room...  
TONNAGE FOR FEES...  
Do. Engine Room...  
Navigation Spaces...  
Register Tonnage as cut on Beam...  
*4741.12*

**CLASS** *100 A1 Shelter Deck*  
Breadth (greatest moulded)... *60.75*  
Depth, at middle of length from top of keel to top of upper deck beams at side... *34.08*  
Transverse Number... *94.83*  
Length on deck from fore part of stem to after part of stern post... *477*  
Longitudinal Number... *45233*  
Depth "d," at middle of length (See Secs. 2 & 13)... *18.84*  
Proportions—Depths to Length—Upper Deck Beam at side to top of keel... *13.99*  
" " Long Bridge Deck Beam at side to top of keel... *11.2*

Master...  
Year of appointment...  
Built at *Belfast*  
When built *1910-2 mo.* Launched *16th Decr 1909*  
By whom built *Workman Clark & Co. Ltd.*  
Owners *Messrs Shew, Wadell & Co. Ltd.*  
Managers...  
Residence...  
Port belonging to *Southampton*

Destined Voyage *Glasgow to Lond.* If Surveyed while Building, Afloat, or in Dry Dock *Building*

**LENGTH** on Deck as per Rule... *477 0* **BREADTH** Moulded... *60 9* **DEPTH, ACTUAL**—Top of Floors to top of Upper Dk. Beams... *34 08* Do. do. do. do. Second Dk. Beams... *19 31*  
Moulded depth, ft. *42* ins. *7* To Bridge Dk. Round of Upper Dk. Beam, Actual... *15* ins.  
Moulded depth, ft. *34* ins. *1* To Upper Dk.

FRAMING.				FORGINGS OR CASTINGS.			
Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
<b>FRAME, Angles, or Bars amidships</b>				<b>KEEL, Bar, depth and thickness</b>			
Do. in peaks	<i>9 1/2</i>	<i>3 1/2</i>	<i>48</i>	Do. in peaks	<i>10 1/4</i>	<i>10 1/4</i>	<i>10 1/4</i>
Do. in way of Double Bottoms at Solid Floors	<i>3 1/2</i>	<i>3 1/2</i>	<i>42</i>	STEM, moulding and thickness	<i>11 1/2</i>	<i>11 1/2</i>	<i>11 1/2</i>
Spacing of Frames from centre to centre amidships	<i>28</i>	<i>28</i>	<i>28</i>	STERN-POST for Rudder do. do. <i>Best Steel</i>	<i>12 1/2</i>	<i>12 1/2</i>	<i>12 1/2</i>
" " length to Collision bulkhead	<i>27</i>	<i>27</i>	<i>27</i>	for Propeller	<i>per approved plan</i>	<i>per approved plan</i>	<i>per approved plan</i>
" " in peaks	<i>24</i>	<i>24</i>	<i>24</i>	RUDDER—A x D Table 22	<i>12 7/8</i>	<i>12 7/8</i>	<i>12 7/8</i>
<b>REVERSED FRAME, Angles on channels</b>	<i>3 1/2</i>	<i>3 1/2</i>	<i>46</i>	" Main-Piece, diameter at head	<i>9 7/8</i>	<i>9 7/8</i>	<i>9 7/8</i>
<b>FRAMING, depth of girder</b>	<i>9</i>	<i>9</i>	<i>9</i>	" " at heel	<i>9 7/8</i>	<i>9 7/8</i>	<i>9 7/8</i>
<b>FLOORS, depth and thickness of Floor Plate</b>	<i>47</i>	<i>58 1/2</i>	<i>46</i>	<b>RUDDER, how constructed</b>	<i>Single Plate, Forged, Keyed arms</i>	<i>Single Plate, Forged, Keyed arms</i>	<i>Single Plate, Forged, Keyed arms</i>
at mid-line for 1/2 length amidships	<i>3 1/2</i>	<i>3 1/2</i>	<i>54</i>	Can the Rudder be unshipped afloat? <i>Yes</i>			
" in way of Engine and Boiler Spaces	<i>5</i>	<i>6</i>	<i>52</i>	<b>KEELSONS &amp; STRINGERS.</b>			
" thickness at the ends of vessel	<i>40</i>	<i>40</i>	<i>40</i>	<b>CENTRE LINE KEELSON, Vertical Plate above</b>			
" depth at 1/2 the half breadth, as per Rule	<i>44</i>	<i>44</i>	<i>44</i>	floors, Through Plate or Intercoastal Plate			
" height extended at the Bilges	<i>28</i>	<i>28</i>	<i>28</i>	" Rider Plate			
<b>FLOORS &amp; BRACKETS in Cell Dble Bottoms</b>	<i>no</i>	<i>no</i>	<i>no</i>	" Flat Plate Keel Angles			
" state if flanged (top & bottom)	<i>28</i>	<i>28</i>	<i>28</i>	" Horizontal Plates on Floor			
" Spacing	<i>28</i>	<i>28</i>	<i>28</i>	" Angles or Bulb Angles			
<b>CENTRE GIRDER, in Dbl. bottom, dpth. &amp; thickness</b>	<i>47</i>	<i>58 1/2</i>	<i>46</i>	<b>SIDE KEELSONS, Number</b>			
" Angles, Top	<i>3 1/2</i>	<i>3 1/2</i>	<i>54</i>	" Angles or Bulb Angles			
" Bottom	<i>5</i>	<i>6</i>	<i>52</i>	" Plate above floors, for length			
" to Floors	<i>44</i>	<i>44</i>	<i>44</i>	" Intercoastal Plate, for length			
<b>SIDE GIRDERS, number on each side &amp; thickness</b>	<i>no</i>	<i>no</i>	<i>no</i>	Attached to outside Plating with Angle			
" state if flanged (top and bottom)	<i>3 1/2</i>	<i>3 1/2</i>	<i>44</i>	<b>BILGE KEELSON, Angles</b>			
" Angles	<i>39</i>	<i>52</i>	<i>39</i>	" Intercoastal Plate, for length			
<b>MARGIN PLATE, depth (exclusive of flange)</b>	<i>4</i>	<i>4</i>	<i>52</i>	Attached to outside Plating with Angle			
" and thickness	<i>3 1/2</i>	<i>3 1/2</i>	<i>51</i>	<b>SIDE STRINGERS, Number</b>			
" Angles to Outside Plating	<i>29</i>	<i>29</i>	<i>29</i>	" Angle			
" Floors	<i>60</i>	<i>60</i>	<i>60</i>	" Intercoastal Plate, for full length			
" Height of Brackets above at bilge	<i>52 E</i>	<i>53 B</i>	<i>52 E</i>	Attached to outside plating with Angle			
<b>INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake</b>	<i>1 1/4</i>	<i>1 1/4</i>	<i>38</i>	<b>Upper Deck Stringer Plate, br'dth &amp; thickness</b>			
" in Engine and Boiler space	<i>7 1/2</i>	<i>7 1/2</i>	<i>48</i>	(clear of Bridge)			
" Remainder in Holds	<i>28</i>	<i>28</i>	<i>28</i>	" " " " " (in way of Bridge)			
<b>BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel</b>	<i>8</i>	<i>3 1/2</i>	<i>44</i>	" " " " " Angle (clear of Bridge)			
" Angles on upper edge	<i>28</i>	<i>28</i>	<i>28</i>	" Tie Plate at sides of Hatchways			
" Spacing	<i>28</i>	<i>28</i>	<i>28</i>	Deck " Iron or Steel, for full lng.			
<b>BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel</b>	<i>8</i>	<i>3 1/2</i>	<i>44</i>	" Thickness (clear of Bridge)			
" Angles on upper edge	<i>28</i>	<i>28</i>	<i>28</i>	" (in way of Bridge)			
" Spacing	<i>28</i>	<i>28</i>	<i>28</i>	Wood Deck, Material & thickness <i>Pine</i>			
<b>BEAMS, Third or Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel</b>	<i>10</i>	<i>3 1/2</i>	<i>60</i>	<b>Second Deck Stringer Plate, br'dth &amp; thickness</b>			
" Angles on upper edge	<i>28</i>	<i>28</i>	<i>28</i>	" Angles on ditto, No. <i>Two</i>			
" Spacing	<i>28</i>	<i>28</i>	<i>28</i>	" Tie Plates outside Hatchways			
<b>BEAMS, Fourth or Fifth Deck, Plate, Tee Bulb, or Channel</b>	<i>10</i>	<i>3 1/2</i>	<i>60</i>	Deck " Iron or Steel, for full lng.			
" Angles on upper edge	<i>28</i>	<i>28</i>	<i>28</i>	" Thickness (clear of Bridge)			
" Spacing	<i>28</i>	<i>28</i>	<i>28</i>	" (in way of Bridge)			
<b>BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel</b>	<i>7</i>	<i>3 1/2</i>	<i>48</i>	Wood Deck, Material & thickness			
" Angles on upper edge	<i>28</i>	<i>28</i>	<i>28</i>	<b>Third Deck Stringer Plate, br'dth &amp; thickness</b>			
" Spacing	<i>28</i>	<i>28</i>	<i>28</i>	" Angles on ditto, No. <i>Two</i>			
<b>BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel</b>	<i>7</i>	<i>3 1/2</i>	<i>48</i>	" Tie Plates outside Hatchways			
" Angles on upper edge	<i>28</i>	<i>28</i>	<i>28</i>	Deck " Material and thickness <i>Steel</i>			
" Spacing	<i>28</i>	<i>28</i>	<i>28</i>	<b>Fourth and Fifth Deck Stringer Plate, br'dth &amp; thickness</b>			
<b>BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel</b>	<i>7</i>	<i>3 1/2</i>	<i>48</i>	" Angles on ditto, No. <i>Two</i>			
" Angles on upper edge	<i>28</i>	<i>28</i>	<i>28</i>	" Tie Plates outside Hatchways			
" Spacing	<i>28</i>	<i>28</i>	<i>28</i>	Deck, Material and thickness			
<b>PILLARS, In 'tween Deck, size and spacing</b>	<i>2 Rows 8" x 4" and 13" x 5"</i>	<i>2 Rows 8" x 4" and 13" x 5"</i>	<i>2 Rows 8" x 4" and 13" x 5"</i>	<b>Bridge Deck Stringer Plate, br'dth &amp; thickness</b>			
" Hold	<i>2 Rows 8" x 4" and 13" x 5"</i>	<i>2 Rows 8" x 4" and 13" x 5"</i>	<i>2 Rows 8" x 4" and 13" x 5"</i>	" Angle on ditto			
" Quarter 'tween Dks.	<i>2 Rows 8" x 4" and 13" x 5"</i>	<i>2 Rows 8" x 4" and 13" x 5"</i>	<i>2 Rows 8" x 4" and 13" x 5"</i>	" Tie Plates			
" in Hold	<i>2 Rows 8" x 4" and 13" x 5"</i>	<i>2 Rows 8" x 4" and 13" x 5"</i>	<i>2 Rows 8" x 4" and 13" x 5"</i>	Deck, Material and thickness <i>Steel 44 Sheathed with 5" x 3" Pine</i>			
<b>WEB-FRAMES, In Fore Body, No. and spacing</b>	<i>Three spaced 6 frames</i>	<i>Three spaced 6 frames</i>	<i>Three spaced 6 frames</i>	<b>Forecastle Deck Stringer Plate, br'dth &amp; thickness</b>			
" br'dth & thickness	<i>2 1/4</i>	<i>10</i>	<i>2 1/4</i>	" Angle on ditto			
<b>WEB-FRAMES, In E. &amp; B. Space, No. &amp; spacing</b>	<i>6 1/2</i>	<i>4 1/2</i>	<i>75</i>	" Tie Plates			
" br'dth & thickness	<i>6 1/2</i>	<i>4 1/2</i>	<i>75</i>	Deck, Material and thickness <i>Steel 30 Sheathed with 3" x 3" Pine</i>			
<b>WEB-FRAMES, In After Body, No. and spacing</b>	<i>6 1/2</i>	<i>4 1/2</i>	<i>75</i>	<b>BULKHEADS.</b>			
" br'dth & thickness	<i>6 1/2</i>	<i>4 1/2</i>	<i>75</i>	Number, Per Rule, Thickness			
<b>BRACKET PLATES to Stringers between Web Frames, depth and thickness</b>	<i>6 1/2</i>	<i>4 1/2</i>	<i>75</i>	W. T. BULKHEADS <i>8</i>			
	<i>6 1/2</i>	<i>4 1/2</i>	<i>75</i>	COLLISION "			
	<i>6 1/2</i>	<i>4 1/2</i>	<i>75</i>	PARTITION "			
	<i>6 1/2</i>	<i>4 1/2</i>	<i>75</i>	LONGITUDINAL "			

Are the outside Plates doubled two spaces of Frames in length? *Large Brackets*  
Are the Stairs, Valves and Watertight Doors in efficient working order? *Yes*

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PLATING. STRAKES. AS IN SHIP. PER RULE OR AS APPROVED. RIVETING. BUTTS. Double or Treble and for what Length. Rivets. Diam. Spacing cr. to cr. STRAPS. Thickness. Breadth. IF LAPPED. For what Length.

Write "Bridge Sheer Strake" and "Upper Deck Sheerstrake" opposite the corresponding letter.

Shelter. Sheer → Bridge Sides.

Plate increased in lieu of flat bar fitted. Doubled for 30 ft at ends of Bridge.

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.?

Upper Deck (Butts, Riveted for 1/2 Treble in way of Bridge. Stringer Plate Straps, single, double or overlapped for full length amidship. Second Deck (Butts, Riveted for full length amidship. Stringer Plate Straps, single or overlapped for full length amidship. Butts of Side Stringers Treble riveted. Tie Plates riveted. Inner Bottom Plating, riveting of Edges 1 Dble. 3 Single Butts Double 1/2. Centre Girder Butts, Treble riveted. Keelson Butts, riveted. Frames, riveted through Plates with 1 in. Rivets, about 5 apart. Rivets, state whether Iron or Steel Iron.

FRAMES extend in one length from Middle Line to Margin Plate & thence to Turnwall. REVERSED FRAMES on floors and frames extend from Middle Line to Margin Plate and thence to underside of 3rd deck beams. State if ordinary or joggled, joggled on bottom. State if ordinary or joggled, joggled on floors.

MASTS, SPARS, &c. Material. Total Length. DIAMETER AND THICKNESS. No. of Plates in round. ANGLES. Riveting. LOWER MASTS. Fore. Main. Mizzen. Bowsprit. Topmasts, Yards and Remainder of Spars. Rigging, Material and Size, Shrouds. Sails. Suit of. Stays.

EQUIPMENT No. 50262 LETTER e+. ANCHORS. TONNAGE U. D.K. OR PLATING No. FOR TRAWLERS. Number of Certificate. Anchors. WEIGHT, WEIGHT OF STEEL OR IRON. TEST, PER CERTIFICATE. WEIGHT REQUIRED BY TABLE 31. Description of Anchor. Makers. Where and when tested and Superintendent.

CHAIN CABLES. HAWSERS AND WARPS. Number of Certificate. Length and size supplied. Test per Certificate. WEIGHT OF CHAIN CABLE. Length and Size per Table 31. Description. Makers of Cables. Where and when tested, and Superintendent. Material. Length and size supplied. Breaking Test of Steel Wire Towline. Length and Size per Table 31.

Boats. Pumps. Windlass. Engine Room Skylights. Coal Bunker Openings. Cargo Hatchways. Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch. Bulwarks. Builder's Signature. WORKMAN, CLARK & CO., LIMITED. Surveyor's Signature. Lloyd's Register Foundation.



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

M 2.6.07, 24.6.07, 24.6.07, 2.7.07, 5.7.07, 9.7.07, 12.7.07, 3.12.07, E 24.10.07.

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

Is the riveted work properly closed? *Yes*

Are the liners between the frames and plates solid single pieces? *Yes*

to plate, &c., conform well to each other? *Yes*

from the faying surfaces? *Yes*

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

Are the rivet holes well and sufficiently countersunk in the plate and punched

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. 26, par. 20)? *Yes*

State results of tests *Satisfactory*

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? *Yes*

State results of tests *Satisfactory*

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

*This vessel has been built in accordance with the plans approved by the Committee, the Secretary's letters of the above mentioned dates and in other respects in general conformity with the Rules and the workmanship is good.*

*The keel was sighted before launching and found straight.*

*The vessel is insulated in Nos 1-2 and 4 Holds and Tween Decks for the carriage of frozen meat cargoes.*

*To complete the survey the whole of the bollinson scuppers on the Shelter Deck are to be made tight & tested by hose or otherwise, also the watertight doors to the bunker pockets in stowhold to be examined and tested. The Glasgow Surveyors have been advised.*

*The approved plans sixteen in number, together with five forging reports are enclosed herewith.*

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge *180* ft., Forecastle *50* ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *✓* *on Shelter Deck.*

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 Shelter Dk (Stl-W.S.) and deep framing.*

Official No. *124523*; Signal Letters

State if Machinery is fitted aft *No*

How are the surfaces preserved from oxidation? Inside *Paint and Portland Cement*

Outside *Paint*

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

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<i>117</i>	<i>315</i>	Fore peak tank,		
Double bottom, under Engines and Boilers,	<i>77</i>	<i>375</i>	After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	<i>221</i>	<i>800</i>	Other tanks, if fitted,		
Total capacity of double bottom		<i>1490</i>	(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. *539*

Date *30th July 1907.*

No. *289* in builder's yard.

DATES of Surveys held while building

*1907. June 29.30, July 2.6.7.8.9.21.27.28 Aug 10.16.17.27. Sept 6.15.17.22.23.28. Oct 1.6.11.22.27. Nov 4.9.11.12.16.18.19.23.30. Dec 2.6.9.13.15.16.20.24. 1910 Jan 12.13.18.21. Feb 1.3.4.5.7.*

Total No. of Visits *51*

The amount of Entry Fee ..... £ *5 : 0 : 0*

Special Survey Fee.... £ *205 : 17 : 0*

Travelling Expenses, if any £ : :

Fees applied for,

*12th Feb 1910*

Received by me,

*142 1910*

*18.2*

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 A1*

With, or without Freeboard, as condition of Class *With Freeboard*

*S. J. Kendall*

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

Committee's Minute

Character assigned

TUES. 22 FEB 1910

*100 A1*  
*Shelter Dk with fbd 5.11*

*Lloyds 126. P.*

*+ L.M. 6.2.10*

*univ. Bef.*  
*" Els*



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Lloyd's Register

Foundation

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