

Lloyd's Register of R & S Shipping

788

Port of Calcutta.

12th August 1892.

This is to certify that
_____ J. D. McKellar _____ the
undersigned Surveyor to this Society did at the
request of Messrs Turner Morrison & Co., Agents, and Captain
Calvert, Commander, attend from time to time at the s.s. Waverley
while undergoing extensive repairs in the Caledonia dry Dock at
Howrah, and that the repairs to the bottom have been carried out in a
substantial and satisfactory manner by the Firm of Messrs John
King & Co. of Howrah, and supervised, under Captain Calvert's
instruction, by his Chief Engineer, Mr. Garmey, and I would
specially mention the good services rendered by him during the
most trying months of the year when the weather was so hot that
it was with difficulty the native workmen were kept at work in
the tanks.

The work of laying an entire new upper deck, Bridge
deck and Forecastle head deck and other items of repairs was
executed in a satisfactory manner by the Caledonia Dock staff.

The "Waverley" has returned to Calcutta after making
a coasting voyage to Bombay and back, and is reported to
be perfectly tight and staunch.



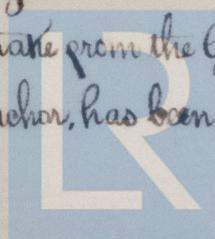
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Repairs
Bottom Plating
Starboard Side.

Plates condemned <u>replaced with new.</u>	Plates taken off, fair'd <u>and riveted</u>
A Strake, Garboard strake. none	none
B " Two plates renewed.	Ten plates taken off, fair'd and riveted, viz:— The 2 nd 3 rd 7 th 9 th 10 th 11 th 12 th 14 th 15 th & 16 th lengths from the Stern post.
C " none	Nine. — or — or — or viz: The 7 th to the 15 th lengths from the Sternpost. 3 Frame rivets in the 16 th plate renewed.
D . Seven plates condemned and replaced with new plates, viz: the 7 th 9 th 10 th 11 th 12 th 13 th 14 th & 15 th lengths from the Stern post.	One plate only, viz: The 15 th length of plating forward of the Sternpost.
E " none.	One plate under the after part of Engine room.

A plate on the Bow on the 6th Strake from the Gunwale, inside strake, dented and fractured by the anchor, has been doubled with,



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with an outside plate.

Under the forward part of Fore Hatchway the lap of **D + E** Strake is slightly dented and under the after part of same Hatchway the lap of **E + F** Strakes slightly dented, but no repairs were done.

A new brass Flange fitted on the Donkey blow-off Pipe.

Port side.

A Strake	None.	None.
B "	None	Two lengths, viz: the 6 th and 7 th lengths from the stem.
C "	One plate, the 6 th length from the Stern.	One. The 7 th length from the Stern
D "	"	Four plates. One the 5 th length from the stem, another under after end of boiler, one under the Engine room and another in the after hold
E "	None.	None.
F "	None	Two plates, the 4 th and 5 th lengths from the stem.
G "	None.	One plate, the 5 th length from the Stern

Slack rivets in the lap, forward length of Garboard strake, taken out and new rivets tapped in, and all slack rivets in the plates aft from the Sternpost forward about sixteen feet from the Keel up to the stern bush taken out and replaced with sound rivets.

Twenty five Stern and Keel rivets renewed from the 8 feet water mark down.



Frame Angles, Floor or Division Plates
and Girders under Water ballast Tanks.
Aster Hold. Starboard side.

There are three Longitudinal Girders on each side, numbered 1-2-3 from the centre Girder out towards the margin plates of Tank. The N^o 3 Girder terminates at the 4th Frame abast the Cross bulkhead dividing the Engine space from the aster hold. The Frame angles are numbered 1-2-3 4th from the bulkhead ast, the Frame abast the bulkhead is N^o 1 Frame. There are Floor, or division plates between each Longitudinal Girder on every alternate Frame and Bracket plates connecting the margin plate to the Frame angles on the Frames that have no division plates.

Two strakes of Tank top Plating were removed on this side from the bulkhead ast to between the 11th and 12th frames abast the bulkhead, and the cement in the bottom was cut out in twenty spaces between the Frames from the margin plate down to the N^o 1 Girder.

1st Frame angle abast the Engineroom bulkhead cut 18" outside of the 2nd longitudinal Girder and replaced with a new frame angle same size as the old one from where cut out to the margin plate of tank, where all the Frame angles inside the tanks terminate, and the Butt strengthened with a Bosom angle 3 feet long, having five rivets in each end.

The Bracket plate connecting the Frame angle to margin plate taken out, straightened and riveted.

2nd Frame angle drawn down to shape and the Floor plate, or division plate between margin plate and the N^o 3 Girder taken out straightened and replaced, and all the slack and broken rivets replaced with sound ones.

3rd Frame angle cut 18" out from the N^o 1 longitudinal Girder and removed out to the margin plate with an angle same size as the old one.

4th Frame angle drawn down to shape and the floor plate between the N^o 3 Girder and margin plate taken out straightened

- 5
- replaced and riveted.
- 5th Frame angle drawn back to shape and the margin plate
Bracket taken out straightened and riveted.
- 6th Frame angle drawn back to shape and the floor plate
between the 2nd girder and the margin plate removed and
replaced with a new plate.
- 7th Frame angle cut 18 inches from the Keel or centre Girder and
removed in one piece out to the margin plate and the Bracket
at the margin plate replaced with a new one.
- 8th Frame angle. The fractured part strengthened with an angle
bar on the after side, same size as the frame angle, riveted
to the frame & to the bottom plating, and the floor plate
between the No 1 and 2 Girders taken out and replaced with
a new plate.
- 9th Frame angle cut near the Keel and removed out to the
margin of tank in one length and the margin bracket
plate taken out straightened and replaced.
- 10th Frame angle cut 18 inches outside of the 2nd Girder and
removed out to the margin plate. The floor plate between
the 1st and 2nd Girders taken out, straightened and
replaced.
- 11th Frame angle drawn down to shape and the Bracket at
margin plate taken out, straightened and replaced.
- 12th Frame angle cut 20 inches out from 2nd Girder and
removed to the margin plate, a short length.
Floor plate between 2nd girder and margin plate
taken out and replaced with a new plate.
- 13th Frame angle drawn back to shape, bracket plate taken
out straightened and replaced.
- 14th Frame angle drawn down in place and the fractured
part strengthened with an angle bar on the back riveted
to web of frame and to the outside plating.
Floor plate between the 2nd girder and margin
plate straightened and riveted.

- 15th Frame angle drawn down to shape and the Bracket plate taken out straightened and replaced.
- 16th Frame angle cut 2 feet out from the 1st Girder and renewed out to the margin plate.
- 17th Frame angle drawn back to shape and the Margin bracket plate straightened and riveted.
- 18th Frame angle slightly fractured between the 2nd Girder and margin plate and compensated by riveting an angle bar on the back over the fractured part and through the bottom plating.
- 19th Frame angle drawn to shape. Margin Bracket taken out straightened and replaced.

The 3rd longitudinal girder taken out from the bulkhead to the 4th Frame angle where it terminates and replaced with a new plate 8 feet long.

The 2nd girder cut between the 4th and 5th Frames abast the Bulkhead and taken out to the original butt between the 7th and 8th Frames and the length abast that taken out to the original butt between the 13th and 14th Frames and renewed in two plates.

The bottom re cemented and the two strakes of tank top plating replaced and riveted and the tank tested and made watertight.

Port side.

There are no damages to Frame angles or Girders under the tanks on this side, but a plate of the tank top was removed at the forward end of the hold on the margin strake to admit of the outside plating being riveted, in taking the plate off it was fractured at the rivet holes and had to be replaced with a new plate.

Two plates of the bulkhead dividing the after hold from the Engine room, on the two strakes of plating above the tank top, were

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found to be buckled and the Frame angle on the after side of the bulkhead slightly fractured about twelve inches above the first stringer above the Didge. one plate was removed and the other straightened. The fractured part of the Frame angle was strengthened with a Fish plate. Some pump gear and tanks fitted against the damaged part of the Bulkhead, in the Engine room, had to be removed to admit of the repairs being done and were refitted and fastened.

In the Water Ballast Tanks
Under the Engine & Boiler spaces.
Starboard side.

The Frames are numbered, from the after bulkhead of the Engine room forward, No. 1 being the Frame forward of the bulkhead.

- 1st Frame angle cut between the centre and the 1st side Girder and removed out to the margin plate and three Floor plates renewed.
- 2nd Frame angle cut between the 1st and 2nd longitudinal Girders and removed out to the margin plate, and the three Floor Plates, or division plates, between the Girders taken out and replaced with new plates.
- 3rd Frame angle cut at the first longitudinal Girder and removed out, and three Floor plates renewed.
- 4th Frame angle drawn back in place and strengthened where slightly fractured with an angle bar 3 feet long, same size as the Frame angle, placed on the after side of Frame and riveted to the Frame and bottom plating. The Floor plate between the 2nd and 3rd Girders taken out and replaced with a new plate, and the Floor plate between the 3rd Girder and the margin plate taken out straightened and riveted.
- 5th Frame angle drawn back to shape and all the Floor plates straightened and riveted.
- 6th, 7th & 8th Frame angles and Floor plates ————
- 9th Frame angle drawn back to shape and compensated where slightly fractured between the 1st and 2nd Girders by an

- angle bar on after side of Frame riveted to the Frame angle and to the bottom plating, and the three Floor plates between the 1st Girder and Margin plate straightened and riveted.
- 10th Frame angle. Rivets in floor plates taken out and replaced with sound rivets.
- 11th Frame angle compensated where fractured by an angle bar on after side of Frame over the fractured part, riveted to Frame angle and bottom plating.
- 12th Frame angle drawn back to shape and strengthened where slightly fractured between the 1st and 2nd Girders by an angle bar on back of Frame. Two floor plates between the 2nd Girder and the margin plate riveted.
- 13th Frame angle drawn back to shape and the Girder, Floor plate and Margin plate Bracket rivets renewed.
- 14th Frame angle and Floor plates riveted.
- 15th Frame angle, under the Boiler. Floor plate between the 1st and 2nd Girders straightened in place and doubled on the upper part with a $\frac{3}{8}$ " plate.
- 16th Frame angle, under after end of boiler, cut between the 1st and 2nd Girders and renewed to the Margin plate. New Floor plates between the 1st and 2nd Girders and between the 3rd Girder and the margin plate.
- 17th Frame angle cut between the keel and the first longitudinal girder and renewed to the margin plate and the three Floor plates between the 1st Girder and Margin plate renewed.
- 18th Frame angle drawn down to shape. Floor plate between the 3rd Girder and margin plate renewed and the other Floor plates straightened in place.
- 19th Frame angle slightly fractured between the 1st and 2nd Girders and strengthened in the fractured part with an angle bar on the back of Frame riveted to the Frame angle and the bottom plating.



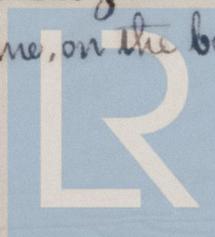
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- 20th. Frame angle very slightly set up. Floor plates straightened in place and riveted and doubled on the upper part with $\frac{3}{8}$ " plates on account of being slightly fitted.
- 21st. Frame angle also slightly set up and the Floor plates buckled. Floor plate between the 2nd and 3rd Girders renewed and the Floor plate between the 3rd Girder and margin plate doubled with $\frac{3}{8}$ plate.
- 22nd. Frame angle drawn down to shape and the margin plate & Bracket renewed.
- 23rd. Frame angle slightly fractured between the 1st and 2nd Girders and compensated with an angle bar on the back of Frame. Floor plate between the 1st and 2nd Girders renewed, and the Floor plates between the Keel and 1st Girder and between the 2nd and 3rd Girders doubled on the upper part with $\frac{3}{8}$ plates.
- 24th. Frame angle drawn down to shape. Floor plate between the 1st and 2nd Girders renewed.
- 25th. Frame angle drawn to shape and riveted.
- 26th. Frame angle and Floor plates straightened in place and riveted.
- 27th. Frame angle drawn down to shape.
- 28th. Frame angle not damaged. The two Floor plates between the 1st and 3rd Girders, slightly buckled, were straightened in place and riveted.
- 29th. Frame angle. Bulkhead Frame no damage.
- All fittings removed from the Bulkhead dividing the Stokelhold from the No 2 Hold were taken down to examine the bulkhead which appeared to be buckled in line of orlop deck, but no serious damage was found and no repairs done, fittings put up again.

Port side.

- 1st. Frame angle forward of the after Bulkhead of Engine room, cut between the 1st and 2nd Girders and renewed out to the margin plate, and the Butt joined with a three feet angle, same size as the Frame, on the back of Frame.



- and riveted to the Frame angle and bottom plating with five rivets in each end through the old and new Frame angles and riveted to the bottom plating.
- 2nd Frame angle drawn down to shape and three Floor plates renewed and one doubled with a $\frac{3}{8}$ plate.
- 3rd Frame angle drawn down to shape. Floor plate between the Centre girder and the 1st girder doubled with $\frac{7}{16}$ plate. The three Floor plates between the 1st girder and Margin plate renewed on account of being pitted and thin.
- 4th Frame angle drawn down to shape.
- 11th Frame. At this Frame the Floor plates between the 1st and 2nd and the 2nd and 3rd longitudinal girders were doubled on the upper parts with $\frac{7}{16}$ plates.
- 15th Frame. Floor plate doubled between the 1st and 2nd girders.
- 17th Frame. Floor plates doubled between the centre and No 1 girder and between the 2nd and 3rd and the 3rd girder and Margin plate, and a new plate between the 1st and 2nd girders.
- 18th Frame. At this Frame the Floor plates were doubled and renewed same as Frame 17.
- 19th Frame. No floor plates on this Frame. The Bracket plate connecting the Frame angle to Margin plate renewed.
- 20th Frame. Floor plates doubled between the centre and the 1st girder, and between the 3rd girder and Margin plate and renewed between the 1st and 2nd and between the 2nd and 3rd girders.
- 21st Frame. Floor plates doubled between the Centre and No 1 girder and between the 1st and 2nd and the 3rd girder and Margin plate and a new plate between the 2nd and 3rd girders.
- 22nd New Margin Bracket plate.
- 23rd Floor plates doubled between the centre and 1st girder and between the 3rd girder and the Margin plate, and two new plates between the 1st and 2nd and 2nd and 3rd girders.

24th

Floor plates doubled between the centre and the 1st Girder and between the 1st and 2nd and between the 3rd Girder and margin plate, and renewed between the 2nd and 3rd Girders.

All floor plates from the 11th to the 21st Frame angles were doubled and renewed on account of being pitted or wasted.

The 3rd Longitudinal Girder, Port side, was buckled and fractured from the after bulkhead of engine room to the 5th Frame angle forward of the Bulkhead and was cut between Frames 4 & 5, and replaced with a new plate from where cut to the bulkhead, about 9.6 long.

On the Starboard side, the 3rd Girder was renewed from the bulkhead to between the 5th and 6th Frame angles on account of damages and doubled between the 10th and 11th Frames on account of a slight fracture, and again doubled between the 23rd and 24th Frames on account of being slightly wasted.

The 2nd Girder fractured and buckled between the bulkhead and the first Frame and was straightened in place and the fractured part compensated with a doubling plate from the Frame angle to the bulkhead.

The whole of the Tank top plating under the Boilers was removed, except the centre plate between the two boilers. On the Port side some of the plates extended under the Engines and were cut in places to make good shifts of bulks and renewed as follows, viz.:-

	Strake next to margin plate	24 1/2' long in 2 lengths of new plate
Second	"	26 " " 2
Third	"	30 " " 2
Fourth	"	30 " " 2

On the Starboard side the tank top plating was removed from the forward bulkhead to the after bulkhead, and most of them replaced and riveted.

The two lower strakes of plating of the Bulkhead between the Engine room and boiler space were renewed from side to side.



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The whole of the cement in the bottom under the Engineers boiler on both sides was cut out and the plates recemented after the repairs were completed, and all the girders, floor plates and the under side of tank top plating was coated with cement wash, and the upper surface of the Tank top plating covered with solid cement about half inch thick.

Six cast iron stoke hold plates were renewed, the original plates being broken.

The Tank top man hole doors were repaired with new studs, many of the studs having got broken during the repairs.

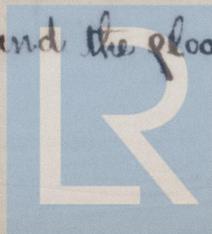
No. 1 Hold.

On the Port side abreast of the Forward Hatchway. On the 3rd strake of plating above the tank, the side was set in and the 2nd, 3rd and 4th Frame angles about the forward beam of Hatchway were bent inwards and fractured from the edge of the web to the reverse bar rivet holes. Three lengths of plating were removed and the bent Frame angles drawn back as much as possible, but could not be got back to the original shape, and liners had to be fitted between the Frame angles and the plates. The fractured Frame angles were strengthened with Besom angles three feet long with five rivets on each side of the fracture.

The plates which were removed, repaired and replaced are included in the list of outside plating.

The bottom cement was cut out from eighteen spaces on the Port side, viz: from the second space forward of the Hatchway up to the Well at the after end of tank and was recemented after the repairs were completed. The cement in the Well chambers on both sides was also cut out and recemented, and the cement in places on the Starboard side where broken was cut out and recemented and the inside of Tanks coated with a fresh coating of cement.

The Flooring on the tank top was removed and the thick cement on the plates cut off, and after the vessel went out of Dock the tank was filled with water and tested with a head of water the height of the light draft mark, and the flooring relaid, and



some of the planking which had got broken in handling when up was replaced with new planks.

The iron chain locker in this hold was scaled outside and inside, after the chain cable was taken out and ranged in the bottom of the dock, and coated with paint, the wooden flooring in the bottom of chain locker on top of water ballast tank was lifted and the top plating of tank under it thoroughly scaled and covered with cement about one and half inches thick, and the flooring relaid on top of the cement.

The two upper sparring battens in the lower Hold were removed to examine the beam ends and were replaced. All the plates and angles stringers beams and Pillars in the lower Hold, on top part and tweendecks, were coated afresh with paint, the old paint being blackened and destroyed by the smoke from the riveters' fires.

No. 2 Hold

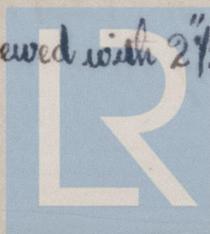
The cement was broken in several places under the tanks in both sides of this Hold, and was cut out where broken and replaced with fresh cement and the Tank's cement washed.

The tank top flooring was taken up and the cement cut off, and after the vessel went out of Dock the tanks were filled with water and tested with a pressure equal in height to the light draft of the vessel and found perfectly tight, the Tank top recemented and the ceiling laid and a portion of it renewed. The two upper sparring batten in this Hold were also removed for examination of the Beam ends and were replaced, and the plates and angles beam stringers and Pillars were recoated with a fresh coating of paint on account of the smoke and dust caused by the riveters' fires when executing repairs.

All the pipe casings and all fittings on the Forward and after bulkheads of the Engine and boiler spaces and on the bulkheads between the Engine room and boiler space were removed on account of the repairs and replaced, and some parts broken in taking them down were replaced with new.

Decks

The upper deck was entirely renewed with 2 1/2 inch oakwood from



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the after end of Bridge House aft to the front of Poop, and from the forward end of Bridge House to the front of Topgallant Forecastle, also the planks in the passage to the Windlass under the Forecastle and in the passage under the Bridge. The Forecastle head and Bridge deck were removed, and the beams and Stringer underneath sealed and painted, and new three inch teakwood decks laid.

The chart room and Wheel House on the Bridge deck was lifted and the iron deck underneath renewed from the steam steering gear aft to the Tiddy.

The spindle of the Windlass Purchase Capstern on the Forecastle head was found to be bent and was taken out and straightened.

The cast iron mooring Bollards on each side on the upper deck at front of Topgallant Forecastle were cracked and broken and were replaced with two pair of new Bollards.

The after mooring pipe on the Starboard side renewed in Bombay was too small for the shackles of the chain cable to go through, and as the vessel is always moored in this Port with the chain cables, the Pipe was useless and was taken out and replaced with a larger Pipe.

The new Hawse pipe on the Starboard side hurriedly put in at Bombay was not a proper fit, and was taken out and replaced with a new cast iron Hawse pipe properly moulded to fit the side.

The waterway cement on the Port side put on at Bombay was cracked and not adhering to the iron, and the old cement on the Starboard side was also defective. The whole of the cement was cut out on both sides and the Waterways or gutters re-cemented.

The cement on top of Fore Peak Waterballast tank being broken was cut off the iron tank top sealed and re-cemented, the tank was sealed inside and coated afresh, filled with water and tested with a head of water eight feet above the crown of tank and the tank made watertight.



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All the Mast wedges removed and the Masts sealed and painted in the partners.

The Masts yards and Rigging examined and found in good condition.

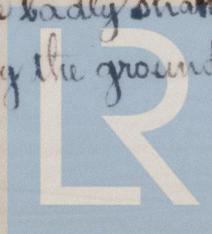
Stern Post

The inner Sternpost, which is broken about two feet two inches below the centre of shaft, was temporarily repaired to enable the vessel to retain her class in the Lloyd's Register, and to serve for the term of her present Charter running in the Indian Coasting trade, say for about two years, subject to annual survey, or to be surveyed when the vessel is put into dry Dock for cleaning and painting the bottom, and when she goes to a Port in the United Kingdom the repair should be surveyed and dealt with as may then be considered necessary. Repairs as follow

Shoulds made to fit the Sternpost over the broken part on each side and Gunmetal slabs cast from the mould and fitted on each side of the Sternpost, extending six feet below and four feet above the centre of shaft. The slabs or Fish plates are twelve inches broad and about four and half inches thick in the part that covers the breaks in the post and tapered at the ends to about 3 inches, and fastened through from side to side with Fifty one turned and fitted metal bolts set up with heavy nuts, and when completed the nuts and bolt heads were covered with cement and triangle bracket pieces were fitted on the forward side of the slabs and cemented from the surface of the slab tapering down to the plating to prevent the water from acting on the slabs when the vessel is underway.

The lower part of the stern Frame appeared to have been fractured under the Propeller, and heavy iron slabs had been fitted on each side extending from the outer stern post, or rudder post, along the keel to about five feet forward of the inner stern post with arms extending up on the inner and outer sternposts and riveted through. The fastenings of those slabs were badly shaken and started, some of them broken, apparently by the grounding at Madras, and

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all slack and defective fastenings were removed and the holes drilled out and refastened with new bolts turned and fitted and driven in tight, and the points heated with a blow pipe and riveted.

The Rudder was lifted and the 2nd and 10th Portable Pintles from below were taken out, the sockets bushed and the pintles driven tight into the sockets and new pins fitted. All the pintles examined and found in sound condition. A Disk about one inch thick put into the heel socket to keep the rudder up off the Gudgeons and washers fitted on the Pintles between the shoulders and the Gudgeons. The stuffing Box on Poop deck relined with Segnumvitae, and the steering gear overhauled and put in good working order. The steam steering gear leading to the Bridge overhauled and put in good order. New steel plates fitted at the Stem of Rudder post and counter in lieu of the two old plates broken by the grounding.

Propeller & Shafting

The Propeller was taken off, the Sail shaft drawn and the Stern Tube removed to repair the broken sternpost.

The Key Bed on the outer end of Sail shaft was damaged and was faired and a new key fitted. The corresponding Key Bed in the Propeller Boss was also chipped and faired to fit the new key and a new nut made for the outer end of shaft in lieu of the old one which was broken.

The Stern Tube was taken to the workshop and bored out in the Lathe and new Segnumvitae lining fitted and all the shafting overhauled, the Propeller shipped and the blade coupling bolts cemented over. The shafting, Propeller and the Engines and boilers and the steam steering gear were surveyed by the Engineer Surveyor, Mr. Mcintosh. The non-conducting felt, or covering, and part of the sheet iron lagging of the boilers being damaged and broken when supporting the boilers to admit of the Tank top plating being removed for repairs was all taken off and replaced with new non-conducting material and the Lagging repaired.



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The coal Bunkers were again examined on account of -
Special Periodical Survey No. 1.

The Comings of all the Hatchways were doubled on the lower
part in way of the steam winch piping on the Port side.

The whole of the bottom fore and aft on both sides was sealed to
the bare iron and coated aqash.

Chain Cable.

The whole of the chain cable was taken out of the lockers and
ranged in the bottom of the Dock for examination. The following
are the sizes of the chain measured in the smallest link of each length.

Starboard side.

1 st Length.	$1\frac{13}{16}$	$\times 1\frac{15}{16}$	circumference $6\frac{1}{4}$
2 nd "	$1\frac{7}{8}$	$\times 2$	gull
3 rd "	$1\frac{7}{8}$	$\times 2$	
4 th "	$1\frac{3}{4}$	$\times 2$	
5 th "	2	$\times 2\frac{1}{16}$	
6 th "	2	$\times 2\frac{1}{16}$	
7 th "	$1\frac{15}{16}$	$\times 2$	
8 th "	$1\frac{1}{2}$	$\times 2$	circumference $6\frac{1}{2}$

Port side.

1 st "	$1\frac{7}{8}$	$\times 2$	gull
2 nd "	2	$\times 2$	
3 rd "	2	$\times 2$	
4 th "	$1\frac{15}{16}$	$\times 2$	
5 th "	$1\frac{7}{8}$	$\times 2$	
6 th "	$1\frac{15}{16}$	$\times 2$	
7 th "	$1\frac{7}{8}$	$\times 2$	
8 th "	$1\frac{7}{8}$	$\times 2$	

Sixty fathoms new $2\frac{1}{16}$ Stud link chain cable sent from
England specially for the vessel was put on board in lieu of the
chain said to have been lost when aground at Madras, accompanied
by Proc Certificate No. 5546 from Lloyd's Towing House, Chester,
dated the 30th January 1892. Certificates for the old chain are also
on board.



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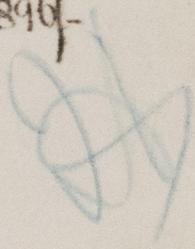
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There are on board three Bower anchors, one steam, and two kedge anchors, all in good condition, and a test certificate for each, one of the Bower anchors is new.

The Hull of the vessel, masts spars and rigging ~~are~~ examined for Special Periodical Survey No. 1, and all requirements of the Rules for that survey fulfilled.

Survey Fee
Rs 89/-

J. M. Williams



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