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Lloyd's Register of  
British & Foreign Shipping  
Glasgow 25<sup>th</sup> Nov 1870

The Secretary

Lloyd's Register of Shipping

Sir

It is proposed to lengthen the iron screw  
steamer "Estella" (Sunderland Report  
No 10126) 30 feet and to retain her present  
class of 90 A

Her plating numbers and proportions would  
then be as follows

14961.  $\frac{8.27}{15.47}$  B Equipment No 16457

Her plating amidships would be deficient  
as under

Ship	Harbour	Bottom	Sheerstrake
Rule	$\frac{9/16}{10/16}$	$\frac{8.7/16}{9/16}$	$\frac{11/16}{11/16 + 20 \times 9/16}$

She would also require Bulk at Bilge Keelson  $7 \times \frac{7}{16}$

" " Interportal at upper bilge for  $\frac{1}{2}$  length (or  
one strake doubled for same length)

" " Iron deck  $9/16$  for  $\frac{1}{2}$  length

" " Hold beam stringer to make up  $\frac{50}{16}$

She is single riveted on two edges below the  
sheerstrake and wanting in the triple riveting  
of the hull of a third strake at Bilge.

The Vessel

The vessel is to be lengthened in the space between  
the two water ballast compartments which is  
shown in the enclosed (new) section.

It is proposed to add a bulk interportal at  
the upper part of bilge and attach it to the shell  
for half the vessel's length, also.

To add an angle iron  $5 \times 3 \times \frac{7}{16}$  to the edge of  
the hold beam stringer.

To take off the strake of plating at the height of  
the hold beam stringer for  $\frac{3}{4}$  length and replace  
it with a  $\frac{1}{16}$  strake with double riveted edges.

To double sheerstrake  $20 \times \frac{1}{16}$  for  $\frac{3}{4}$  length.

To add iron deck for half length and make in  
the  $\frac{7}{16}$  plating which is to be taken off the sides  
of the vessel.

To plate up the lengthened part with the original  
thickness of shell.

Another proposal is to plate the new part  
with the thickness required for her increased  
numbers, and add keelsons for rule in that  
space and to double rivet the lands above the  
bilge, also to double rivet the ends of the third  
strake at bilge for half length.

To double sheerstrake  $20 \times \frac{9}{16}$  for  $\frac{3}{4}$  length.

To add iron deck for half length  $\frac{6}{16}$  thick.

To fit interportal and attach it to shell  
for half length at upper part of bilge.

The firm

