

Mult<sup>1</sup>/<sub>2</sub> Steel Mani Boilers (1<sup>2</sup>407-8) to be made  
by Mess Anderson & Lyall for Mess J. G. Kneeland & Co

No 296 Euphrat.

180 lb<sup>2</sup> working pressure.

Plate %  $\frac{9 - 1.3125}{9} \times 100 = 85.5$  Ends

$\frac{185 \times 19.5^2}{381} = 184 \text{ lb.}$

Rivet %  $\frac{1.35 \times 5 \times 1.45 \times 85}{9 \times 1.25} = 89.4$

" Stays.  $\frac{6.9 \times 10000}{18.5 \times 20.5} = 181 \text{ lb.}$

Shell  $\frac{28}{24} \times \frac{21 \times (20-2)}{184.45} = 181 \text{ lb.}$

Front tube  $\frac{140 \times (13 + \frac{10}{2})^2}{142.5^2} = 222 \text{ lb.}$

Sumace  $\frac{1259 \times (10-2)}{50} = 202 \text{ lb.}$

Back.  $\frac{140 \times 13^2}{92} = 292 \text{ lb.}$

Concave  $\frac{135 \times 10^2}{8.5^2} = 181 \text{ lb.}$

Stay tubes  $\frac{4500 \times 2.18}{11.25 \times 13.845} = 141 \text{ lb.}$

" Stays.  $\frac{1.43 \times 8000}{8.5^2} = 191 \text{ lb.}$

Boiler Back  $\frac{135 \times (12 + \frac{10}{2})^2}{131} = 402 \text{ lb.}$

" top  $\frac{135 \times 10.5^2}{8.45^2} = 193 \text{ lb.}$

" Stays  $\frac{203 \times 9000}{11.125 \times 8.06} = 284 \text{ lb.}$

Girders.  $\frac{9900 \times 8.25^2 \times 1.5}{(24-85)9 \times 24} = 223 \text{ lb.}$

W.R.  
22<sup>nd</sup> Jan 1900.

© 2020

Lloyd's Register  
Foundation

W831-0064