ete in place, I find they

Pin.

\$

270,672

297,000

309,352 347,950 351,830 363,900 385,653

299,413

in all cases mainly on the weight of material employed in its construction; on the contrary, of two bridges the heaviest may have its several members so unskillfully arranged and badly proportioned that the lightest may really be the strongest and most durable of the two; but when we take bridges of the same or very similar design, constructed of materials of equal quality, and assume that all the parts have been well proportioned in each case, the weights of span will give a tolerably correct Riveted. a of the relative strength and value of each. The weights per span and the total weight of iron in the sixteen spans are presented in the following lists (as far as ascertained) and to enable the Commissioners \$ still further to judge, the total amounts of the tender are divided by the total weights

in each case, thus giving the price per ton.

Two HUNDRED FEET SPANS, F. O. B.

TENDERS arranged according to Price per Ton.

387,495 387,495 415,6	5	No. of Tender.	Name.	Weight in Tons.		Amount of	Price per ton, F. O. B.	
425,451 432,910 	5 No.			Per Span.	16 Spans.	Tender, F.O.B.	Pin.	Riveted.
497,28	1	5	Darlington Iron Co	161	2,576	144,024		56 00
nated the Pin Bridg various plans which tand in the following	a, 4 b 4 g 6	C 14 10 3	Wm. Thompson & Co John Waiker Pease, Hutchinson & Co Patent Shaft Co.	260 1831 243 202 137	2,018 3,888 3,232 2,199	130,175 276,720 229,348	79.00	64 50 71 00 71 00
N. J.	789	22 12 33	Fairbairn Engineering Co Westwood, Baillie Co John Cockerill	244 ¹ / ₂ 250 206 ¹ / ₂ 140	2,102 3,912 4,000 3,304	$289,940 \\297,998 \\248,640 \\140,000$		$\begin{array}{ccc} 74 & 00 \\ 74 & 50 \\ 75 & 00 \\ 75 & 00 \\ \end{array}$
	10 11 12	4 9	Lewis & Stockwell	143 1861 199 221	$\left. \left. \begin{array}{c} 2,255\\ 3,044\\ 3,536 \end{array} \right. \right\}$	236,955 275,610		78 00 78 00 78 00
v	13 14 15 16	25 B 20 32	E. A. Jones Boxall & Burpee A. Besker Blodgett & Curry	221 140 138 126	$3,536 \\ 2,240 \\ 2,208 \\ 2,024$	$\begin{array}{c} 275,610\\ 223,328\\ 223,680\\ 238,500 \end{array}$	101 00 118 00	78 00 100 00
to fit them for use.	14 18 19 20 21 22	18 19 30 29 3 1	Detroit Iron Works Clarke, Reeves & Co American Bridge Co WeNairy & Clallen Watson Manufacturing Co	$ \begin{array}{c} 1094 \\ 140 \\ 101 \\ 144 \\ 128 \\ 103 \\ 4103 \end{array} $	$\begin{array}{c} 1,148\\ 2,240\\ 1,616\\ 2,312\\ 2,056\\ 1,772\\ \end{array}$	$\begin{array}{c} 213, 248\\ 315, 675\\ 243, 852\\ 387, 160\\ 350, 060\\ 333, 100\\ \end{array}$	$\begin{array}{c} 122 & 00 \\ 141 & 00 \\ 151 & 00 \\ 167 & 00 \\ 170 & 00 \\ 188 & 00 \end{array}$	

to fit them for u der of merit :--ster.

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per that I should according to the enting this infora bridge depends

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