

Public Works (1899) Department.

G.O., No.

2309 W

DATED 2nd September 1899.

[Despatch Abstract.]

Rate List Class A - Bridgework for 1898 -
Circulars from the Dir. of Railway Constn
forwarding ^{copies} ~~copy~~ of the ———— command
to Officers of the P.W.D.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

To
 The Chief Engr. for Brigades with 1st. — Bridge work for 1878.
 Supt. Engrs. 5-5-5 14-5 5-5
 The C.A. to Govt. st
 " Supt. of Works, L.H. Div. with copies
 " Engrs, P.W. Accts. with De
 5/9/67

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Enclosure to Director of Railway Construction's Circular No. 9 of 1899.

RATE LIST.

CLASS A.
BRIDGEWORK
FOR 1898.

G. C. Press, Simla.—No. 1980 P. W. D.—14-6-99.—40.

STATEMENT showing the average rates per ton for entire Sea Freight on Bridgework sent out from England to the several ports in India for State Railways of both gauges during 1898.

Description of girders.	Karachi.	Bombay.	Calcutta.	Cochinada, Vizagapatam, or Madras.	Rangoon.	REMARKS.
Clear span 6 feet	...	s. d. 17-6	s. d. ...	s. d. ...	s. d. ...	
" 10 "	...	...	...	...	...	
" 12 "	...	...	...	...	...	
" 20 "	...	...	...	35-0	...	
" 30 "	...	...	...	...	...	
" 40 "	...	*28 3	...	...	...	
" 60 "	...	*28 3	40 0	...	...	* Average.
" 72½ "	...	32 6	32 6	...	...	
" 100 "	...	14 0	...	...	...	
" 150 "	...	...	...	...	...	
" 350 "	36 0	...	...	...	...	

NOTE.—Where rates have not been quoted, it should be understood that girders of the dimensions specified were not imported during the year.

CLASS OF STORES A.—BRIDGEWORK.

5' 6" GAUGE.

Contracted for in 1898.

Contract number and date.	Clear span.	Railway.	Roadway on upper or lower boom.	Details.	Estimated weight of each span.	RATE - FREE ON BOARD.			REMARKS.
						Amount.	Unit.		
					Tons. cwt. qr. lbs.	£	s.	d.	
87 180	18-10-98	6 Ghaziabad-Moradabad.	Upper	For all steel in girder-work, including rivets, spare rivets, and rivet rods	0 11 3 0	11	0	0	Ton.
				For all bolts, nuts, and washers, except service bolts	0 1 0 21				
				For all service bolts, nuts, and washers	0 0 0 21				
				Girders, 6 feet, complete, with bolts, rivets, &c.	0 13 0 14	7	4	5	Span.
81 301	26-4-98	10 Bhatinda-Ferozepore.	Ditto L = 13' 0" D = 0' 10 1/4" Dist. = 5' 9"	For all steel in girder work, including rivets, spare rivets, and rivet rods...	1 9 0 0	10	10	0	Ton.
				For all bolts, nuts, and washers, except service bolts	0 1 1 21				
				For all service bolts, nuts, and washers	0 0 0 21				
				Girders, rolled, 10 feet, complete, with all bolts, rivets, &c.	1 10 2 14	16	1	7	Span.

N.B.—All spans are without trough flooring unless otherwise stated.
L = length over all of girders. D = depth. Dist. = distance apart centre to centre of girders. W. = clear width of roadway.

CLASS OF STORES A.—BRIDGEWORK—(continued).

5' 6" GAUGE.

Contracted for in 1898.

Contract number and date.	Clear span	Railway.	Roadway on upper or lower boom.	Details.	Estimated weight of each span.	RATE—FREE ON BOARD.		REMARKS.
						Amount.	Unit.	
81 301	26-4-98	Bhatinda-Ferozepore.	Upper L = 13' 6" D = 0' 10 3/4" Dist. = 5' 9"	For all steel in girder-work, including rivet, spare rivets, and rivet rods.	Tons. cwt. qr. lbs.	£ s. d.	Ton.	Conversion of a section of Rewari-Ferozepore Railway into 5' 6" gauge.
				For all bolts, nuts, and washers, except service bolts	1 12 2 21	10 10 0		
				For all service bolts, nuts, and washers	0 1 1 21			
85 31	5-8-98	Hurdwar-Dehra	Ditto L = 14' 6" D = 1' 8" Dist. = 5' 9"	Girders, rolled, 10 feet 6 ins. complete, including bolts, rivets, &c.	1 14 1 7	18 0 3	Span.	The weight and cost of skew spans 10' 6" in the clear, on this contract is the same.
				For all steel in girder work, including rivets, spare rivets, and rivet rods...	1 9 2 0			
				For all bolts, nuts, and washers, except service bolts	0 1 2 0	11 0 0	Ton.	
				For all service bolts, nuts, and washers	0 0 0 21			
				Girders, rolled, 12 feet, complete, with all bolts, rivets, &c.	1 11 0 21	17 3 1	Span.	

87 180	18-10-98	Ghaziabad-Moradabad	Ditto	For all steel in girder-work, including rivets, spare rivets, and rivet rods	1 9 2 0	11 0 0	Ton.	
				For all bolts, nuts, and washers, except service bolts	0 1 2 0			
				For all service bolts, nuts, and washers	0 0 0 21			
81 237	21-4-98	East Coast (Godavari Bridge).	Upper. L = 23' 0" D = 1' 7 1/2" Dist. = 5' 9"	Girders, rolled, 12 feet, complete, with bolts, rivets, &c.	1 11 0 21	17 3 1	Span.	
				For all steel in girder-work, including rivets, spare rivets, and rivet rods...	3 13 0 0	12 0 0	Ton.	
				For all bolts, nuts, and washers, except service bolts	0 2 0 0			
81 301	26-4-98	Bhatinda-Ferozepore.	Ditto. L = 24' 0" D = 1' 8" Dist. = 5' 9"	For all service bolts, nuts, and washers	0 0 1 14			The weight and cost of skew spans of 20 feet on this contract is the same. For conversion of a section of Rewari-Ferozepore Railway into 5' 6" gauge.
				Girders, rolled, 20 feet, complete, including bolts, rivets, &c.	3 15 1 14	45 4 6	Span.	
				For all steel in girder work, including rivets, spare rivets, and rivet rods...	4 0 2 0			
				For all bolts, nuts, and washers, except service bolts	0 2 0 7	10 10 0	Ton.	
				For all service bolts, nuts, and washers	0 0 1 14			
				Girders, rolled, 20 feet, complete, including bolts, rivets, &c.	4 2 3 21	43 10 10	Span.	

N.B.—All spans are without trough flooring unless otherwise stated.
L = length over all of girders. D = depth. Dist. = distance apart centre to centre of girders. W = clear width of roadway.

CLASS OF STORES A.—BRIDGEWORK—(continued).

5' 6" GAUGE.

Contracted for in 1898.

Contract number and date.	Clear span.	Railway.	Roadway on upper or lower boom.	Details.	Estimated weight of each span.	RATE—FREE ON BOARD.		REMARKS.
						Amount.	Unit.	
<div>85</div> <div>31</div> <div>5-8-98</div>	20	Hurdwar-Dehra.	Upper L = 23' 4" D = 1' 9 1/2" Dist. = 5' 9"	For all steel in girder-work, including rivets, spare rivets, and rivet rods.	Tons. cwt. qr. lbs.	£ s. d.	Ton.	4
				For all bolts, nuts, and washers, except service bolts	3 13 3 7	11 0 0	0	
				For all service bolts, nuts, and washers	0 2 0 7	0 0 0	1 14	
				Girders, rolled, 20 feet, complete, including bolts, rivets, &c.	3 16 1 0	41 18 9	Span.	
<div>87</div> <div>180</div> <div>18-10-98</div>	20	Ghaziabad-Moradabad.	Ditto.	For all steel in girder-work, including rivets, spare rivets, and rivet rods	3 13 3 7	11 0 0	Ton.	
				For all bolts, nuts, and washers, except service bolts	0 2 0 7	0 0 0	1 14	
				For all service bolts, nuts and washers	0 0 0 1 14			
				Girders, rolled, 20 feet, complete, with bolts, rivets, &c.	3 16 1 0	41 18 9	Span.	

<div>87</div> <div>314</div> <div>28-10-98</div>	30 overall	Eastern Bengal	Lower Wooden floor L = 30' 0" D = 3' 2 1/2" Dist. = 14' 0" W = 1 1/2' 0"	For all steel in girder-work	9 9 3 21	12 10 0	Ton.	For screw pile via-duct, clear span 28 feet.
				Rivet-heads and spare rivets	0 11 1 21			
				For all service bolts, nuts and washers	0 1 2 0			
				Girders, plate, and span 30 feet, complete, with bolts, rivets, &c.	10 2 3 14	126 15 10	Span.	
<div>87</div> <div>314</div> <div>28-10-98</div>	30 overall	Ditto.	Ditto. L = 30' 0" D = 3' 2 1/2" Dist. = 14' 0" W = 12' 0"	For all steel in girder-work	9 9 0 21			For screw pile via-duct, clear span 26 feet.
				Rivet heads and spare rivets	0 11 1 14	12 10 0	Ton.	
				For service bolts, nuts, and washers	0 1 2 0			
				Girders, plate, Intermediate 30 feet, complete, with all bolts, rivets, &c.	10 2 0 7	126 5 9	Span.	
<div>84</div> <div>233</div> <div>14-7-98</div>	40	Hurdwar-Dehra.	Upper L = 44' 0" D = 3' 8" Dist. = 5' 9"	For all steel in girder-work, including rivets, spare rivets, and rivet rods	10 11 1 21			
				For all bolts, nuts, and washers, except service bolts	0 3 0 7	11 5 0	Ton.	
				For all service bolts, nuts, and washers	0 0 3 0			
				Giders, plate, 40 feet, complete, with all bolts, rivets, &c.	10 15 1 0	121 1 9	Span.	

N. B.—All spans are without trough flooring unless otherwise stated.

L = length over all of girders, D = depth. Dist. = distance apart centre to centre of girders. W = clear width of roadway.

CLASS OF STORES A.—BRIDGEWORK—(continued).

5' 6" GAUGE.

Contracted for in 1898.

Contract number and date.	Clear span	Railway.	Roadway on upper or lower board.	Details.	Estimated weight of each span.	RATE—FREE ON BOARD.			REMARKS.
						Amount.	Unit.		
87 163 17-10-98	40	Ghaziabad Moradabad.	Upper	For all steel in girder-work, including rivets, spare rivets, and rivet rods.	Tons. pwt. qr. lbs.	£	s.	d.	Square span, with trough flooring. For conversion of a section of Rawar-Ferozepore Railway into 5' 6" gauge.
				For all bolts, nuts and washers, except service bolts.	10 11 1 21				
				For all service bolts, nuts and washers	0 3 0 7	11	2	6	
					0 0 3 0				
81 191 6-4-98	60	Bhatinda-Ferozepore	Lower	Girders, plate, 40 feet complete, including bolts, rivets, &c.	10 15 1 0	119	14	8	Span.
				For all steel in girder-work, including rivets, spare rivets and rivet rods ...	41 13 2 14				
				For all bolts, nuts, and washers, except service bolts	0 1 1 7	12	0	0	
				For all service bolts, nuts, and washers	0 4 2 0				
84 233 14-7-98	60	Hurdwar-Dehra.	Upper Decked.	Girders, plate, 60 feet complete, with all bolts, rivets, &c.	41 19 1 21	503	13	3	Span.
				For all steel in girder-work, including rivets, spare rivets, and rivet rods ...	41 3 1 0				
				For all bolts, nuts, and washers, except service bolt	0 1 1 7	12	0	0	
				For all service bolts, nuts, and washers	0 4 2 0				
88 74 8-11-98	60	Oudh and Rohilkhand.	Upper	Girders, plate, 60 feet complete, with all bolts, rivets, &c.	26 10 2 14	298	9	6	Span.
				For all steel in girder-work, including rivets, spare rivet, and rivet rods ...	30 4 2 14				
				For all bolts, nuts, and washers, except service bolts	0 4 0 14	12	5	0	
				For all service bolts, nuts and washers	0 3 0 0				

81 191 16-4-98	60	Do.	Do.	For all steel in girder-work, including rivets, spare rivets, and rivet rods ...	41 3 1 0				Ton.
				For all bolts, nuts, and washers, except service bolt	0 1 1 7	12	0	0	
				For all service bolts, nuts, and washers	0 4 2 0				
				Girders, plate, 60 feet complete, with bolts, rivets, &c.	41 9 0 7	497	8	9	
84 233 14-7-98	60	Hurdwar-Dehra.	Upper Decked.	For all steel in girder-work, including rivets, spare rivets, and rivet rods ...	26 2 3 14				Ton.
				For all bolts, nuts, and washers, except service bolts	0 4 3 0	11	5	0	
				For all service bolts, nuts, and washers	0 3 0 0				
				Girders, plate, 60 feet complete, with all bolts, rivets, &c.	26 10 2 14	298	9	6	
88 74 8-11-98	60	Oudh and Rohilkhand.	Upper	For all steel in girder-work, including rivets, spare rivet, and rivet rods ...	30 4 2 14				Ton.
				For all bolts, nuts, and washers, except service bolts	0 4 0 14	12	5	0	
				For all service bolts, nuts and washers	0 3 0 0				
				Girders, plate, 60 feet complete, including bolts, rivets, &c.	30 11 3 0	374	13	11	

L = length over all of girders. D = depth. Dist. = distance apart centre to centre of girders. W = clear width of roadway.

N. E.—All spans are without trough flooring unless otherwise stated.

Angle of skew 60° to right

CLASS OF STORES A.—BRIDGEWORK—(continued).

5'6" GAUGE.

Contracted for in 1898.

Contract number and date	Clear span.	Railway.	Roadway on upper or lower boom.	Details.	Estimated weight of each span.	RATE—FREE ON BOARD.			REMARKS.
						Amount.	Unit.		
$\frac{82}{237}$	23-5-98	Ft.	150	East Coast (Godavari Bridge).	Tons. cwt. qr. lbs. 129 8 3 14	£.	s.	d.	Ton.
						10	15	0	
						25	0	0	
						10	2	6	
$\frac{86}{103}$	7-9-98	North-Western	...	Lower trough floor with foot paths both sides. L = 159' 7" D = 14' 4" Dist. = 8' 0" W = 14' 4"	1 14 1 7 6 11 1 0	26	0	0	"
						1500	17	2	
$\frac{87}{103}$	13-10-98	Lyallpur-Khanewal	...	Girders, triangulated, 150 feet, complete, with all bolts, rivets, &c. Spare parts— Hook bolts, galvanized, for sleepers Screws, coach, iron, galvanized, square head, round neck, 6" under head $\times \frac{3}{4}$ " diameter	137 14 1 21	19	10	0	Ton. The weight of 10,000 bolts. Tons. cwt. qr. lbs. = 17 17 1 0
						1	6	0	
									For flooring Rai Bridge.

CLASS OF STORES A.—BRIDGEWORK—(continued).

METRE GAUGE.

Contracted for in 1898.

Contract number and date.	Clear Span	Railway.	Roadway on upper or lower boom.	Details.	Estimated weight of each span.	RATE—FREE ON BOARD.			REMARKS.
						Amount.	U it.		
$\frac{79}{69}$	8-2-98	Shadipali-Balotra.	Upper. L = 8' 6" D = 0' 10" Dist. = 3' 6"	For all steel in girder-work, including rivets, spare rivets, and rivet rods For all bolts, nuts, and washers, except service bolts For all service bolts, nuts, and washers Girders, rolled, 6 feet, complete, with cross-ties bolts, rivets, &c.	Tons. cwt. qr. lbs. 0 9 1 0 0 1 1 21 0 0 0 21 0 10 3 14	£	s.	d.	Ton. Span.
						10	5	0	
						5	11	6	
$\frac{82}{276}$	24-5-98	Eastern Bengal	Upper.	For all steel in girder-work, including rivets, spare rivets, and rivet rods For all bolts, nuts, and washers, except service bolts For all service bolts, nuts, and washers Girders, rolled, 12 feet, complete, with all bolts, rivets, &c.	1 0 3 0 0 2 0 0 0 0 0 21 1 2 3 21	11	0	0	Ton. Span.
						12	12	4	
$\frac{84}{309}$	19-7-98	Oodeypore-Chittor garh	Upper. L = 14' 6" D = 1' 4" Dist. = 3' 6"	For all steel in girder-work, including rivets, spare rivets, and rivet rods For all bolts, nuts, and washers, except service bolts For all service bolts, nuts, and washers Girders, rolled, 12 feet, complete, with bolts, rivets, &c.	1 0 3 0 0 2 0 0 0 0 0 21 1 2 3 21	12	0	0	Ton. Span.
						13	15	3	

Mymensingh-Jamalpur Extension.

N.B.—All spans are without trough flooring unless otherwise stated.
L = length over all of girders. D = depth. Dist. = distance apart centre to centre of girders. W = clear width of roadway.

CLASS OF STORES A.—BRIDGEWORK—(concluded).

METRE GAUGE.

Contracted for in 1898.

Contract number and date.	Clear Span.	Railway.	Roadway on upper or lower boom.	Details.	Estimated weight of each span.		RATE—FREE ON BOARD.			REMARKS.
					Tons.	cwt. qr. lbs.	Amount.	Unit.		
82 276	24-5-98 20	Eastern Bengal	Upper. L = 23' 0" D = 1' 7" Dist. = 3' 7"	For all steel in girder-work, including rivets, spare rivets, and rivet rods ..	2	17 3 0	£. s. d.	11 0 0	Ton.	Mymensingh-Jamalpur Extension.
				For all bolts, units, and washers, except service bolts ..	0	2 3 7				
				For all service bolts, units and washers ..	0	0 1 14				
				Girders, rolled, 20 feet, complete, with all bolts, rivets, &c. ...	3	0 3 21				
79 17	2-2-98 150	Ditto	Between.	For all steel in girder-work, including rivets, spare rivets, rivet rods, black bolts, service bolts, &c. ...	123	10 0 0	10 12 3	Ton.	Teesta Bridge Piers 28' x 12' with semi-circular ends.	
				For all steel in expansion gear, etc. ...	1	8 3 0				
				Cast iron ..	5	15 1 0				
				Girders, triangulated, 150 feet, complete, with bolts, rivets, spare rivets, &c. ...	130	14 0 0				
							1.410	9 11	Span.	

N. B.—All spans are without trough flooring unless otherwise stated.
L = length over all of girders. D = depth. Dist. = distance apart centre to centre of girders. W = clear width of roadway.

Enclosure to Director of Railway Construction's Circular No. 9 of 1899.

Appendix A.

Statement showing bridge girders of 250 feet span and above which have been obtained for State Railways through the India Office up to end of 1898.

Number of India Office contracts.	Name of Contractors.	Clear span, feet.	Gauge.	Price f. o. b. in England.	For what bridge and railway.	Approximate quantity of steel and iron.	REMARKS.
A 125 of 1884	Westwood, Baillie & Co.	250	Metre ...	£ 4,010 0 0	Bellary-Kistna railway (This span was originally intended for the Jhansi-Manikpur railway.)	Steel 219 Wrought iron 84 Cast iron 13 Bolts, screws, etc. 273	Main girders, cross girders, longitudinal girders, and floor-plates are of steel. The whole of the rivets are of steel.
A 163 of 1885	Westwood, Baillie & Co.	250	Do. ...	3,991 0 0	Gunduck bridge, Tirhoot State railway.	Steel 215 Wrought iron 88 Cast iron 13 Bolts, etc. 34	Main girders are of steel with the exception of plates and angle bars of diaphragms, cross girders, overhead girders, footways, hand-rails, floor, etc., are of wrought iron. The overhead diagonal bracing and gussets are of steel.
A 41 of 1876	Head, Wrightson & Co.	250	5' 6" ...	5,942 0 0	Sutlej bridge, Adam-wahan.	Wrought iron 388 Cast iron 15 Steel 5	Rollers and knuckle pins only are of steel.
A 76 of 1880	Westwood, Baillie & Co.	257 (centre of bearing.)	5' 6" ...	4,433 0 0	Indus bridge at Attock	Steel 241 Wrought iron 144 Cast iron 13	Top and bottom booms of main girders and pillars, bracing between top and bottom booms, resting gear and rivets are of steel.
A 77 "	Westwood, Baillie & Co.	308	5' 6" ...	Not given in the contract.	Ditto	TOTAL WEIGHT 3984	314 feet measured from centre to centre of piers was ordered and the girder supplied was for openings of 308 feet. No schedule of quantities for this contract was received.
A 116 of 1883	Westwood, Baillie & Co.	278 (centre of bearings.)	5' 6" ...	8,342 0 0	Indus bridge at Sukkur	Steel 386 Wrought iron 136 Cast iron 19	Main girders are of steel with the exception of plates and angle bars of diaphragms in the top boom, the bracings and connections of the angle bars of the vertical struts, the stiffenings of the tension bars and the tapered packings of the angle bars on the inside of the upper boom which parts are of wrought iron, curb plates, longitudinal girders on the footways diagonal bracing under roadway, corrugated floor-plates, etc., are of steel.
46 of 1885	Westwood, Baillie & Co.	Two cantilevers, each 310 feet long.	5' 6" ...	49,403 0 0 (average for each.)	Ditto	Bukkur Cantilever. Steel 1,417 Iron 134	
4711 of 1891	P. and W. Mclellan	300	5' 6" ...	6,459 0 0	Kistna bridge	Haji-Motu Cantilever. Steel 1,433 Iron 134	All steel, except bed-plates for trimmers, the chipping pieces under the bed-plates of the girder span, the tubular portion of the bracing of the large pillar and of No. 3 strut and all bolt and screws, all of which are of wrought iron.
4712 "	Head, Wrightson & Co.	350	5' 6" ...	11,494 10 0	Indus Bridge at Kotri	TOTAL WEIGHT 2,876 Total weight, 535½ tons (exclusive of snaps.)	All steel except the saddles, knuckles and bed-plates, which are of cast iron and the rolled frames and service bolts which are either of iron or steel.
66 of 1897	Thames Ironworks Co.	350	5' 6" ...	...	...	Steel 883 Cast iron 43 Wrought iron 35	All steel except the saddles, knuckle bearers at fixed and expansion ends and the roller bed plates which are of cast iron, and rail clips of malleable cast iron.

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, the Punjab and Burma, Public Works Department.
 The Secretaries to the Chief Commissioners of the Central Provinces and Assam, Public Works Department.
 The Secretaries to the Residents at Hyderabad and in Mysore, Public Works Department.
 The Secretaries to the Agents to the Governor General, Rajputana and Central India and Baluchistan, Public Works Department.
 The Superintendent of Port Blair and Chief Commissioner, Andaman and Nicobar Islands.
 The Director General of Telegraphs.
 The Director General of Military Works.
 The Chief-Engineer, Kashmir.
 The Accountant General, Bengal.
 The Consulting Engineers for Railways, Madras, Bombay, and Burma.
 The Consulting Engineers to the Government of India for Railways, Calcutta, Lucknow and Assam.

Copy forwarded to the Local Governments and Administrations, and to the officers noted in the margin, for information, with the intimation that all Railway Administrations have been supplied with copies direct.

G. Hubbard Lieut. R.E.
 for Director.

To

THE *Secretary to the Govt. of Madras*
Public Works Department

(Spence copies will follow)

Madras

G.M.S.1
54098/1899.

FROM

THE DIRECTOR OF RAILWAY CONSTRUCTION,

TO

THE MANAGER, NORTH WESTERN RAILWAY.

THE MANAGER, OUDH AND ROHILKHAND RAILWAY.

THE MANAGER, EASTERN BENGAL STATE RAILWAY.

THE MANAGER, EAST COAST RAILWAY.

THE ENGINEER-IN-CHIEF, INDUS BRIDGEWORKS AND BRITISH SECTION, SHADI-PALLI-BALOTRA RAILWAY.

THE ENGINEER-IN-CHIEF, GODAVARI BRIDGE.

THE ENGINEER-IN-CHIEF, HARDWAR-DEHRA RAILWAY.

THE ENGINEER-IN-CHIEF, GHAZIABAD-MORADABAD RAILWAY.

THE PORT STOREKEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Rate List, Class A.—Bridgework for 1898.

Simla, the 8th June 1899.

SIR,

I have the honour to forward herewith, for information and guidance, a printed statement showing the actual English rates *free on board* in England for A Class, State Railway Stores, *viz.*, "Bridgework," contracted for by the Stores Department of the India Office during the year 1898.

2. A statement showing the average rates per ton for entire sea freight, on Bridgework sent out from England to the several ports in India during 1898, is prefixed to the Rate list.

3. In order to arrive at the total cost of the Bridgework landed in India, an insurance charge of one-half* per cent. on the *free on board* cost *plus* entire sea freight, should be added in addition to other incidental charges and exchange, which latter should be calculated at the official rate for the year.

4. A statement showing the weight and f. o. b. cost of steel and iron for bridge girders of 250 feet span and upwards, which have been obtained for State railways through the India Office up to end of 1898, has been added at end of the list as Appendix A.

I have the honour to be,

SIR,

Your most obedient Servant,

C. W. HODSON,

Director.

Documents accompanying.

1. Statement showing the average rates per ton for entire sea freight on class A. stores imported from England to the several ports during 1898.

2. Rate List, Class A.—Bridgework for 1898.

* For State railway Stores and Irrigation Works only classed as Imperial. Stores for Provincial and Local funds and for railways constructed by Native States are charged one per cent. as heretofore.