Ft. 248. 1 of 31st Aug 87

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Comm. to officers concerned, and the rate lists distributed as under:-

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From

THE DIRECTOR GENERAL
OF RAILWAYS,

To 100-S.C

109 W

Circular No. 12.

Dated Simla, November 23, 1886.

Received 27-1-87

Encl 1

(+ 100-S.C)

Ft. 248. 1 of 31-1-87

INDIAN STATE RAILWAYS.

Statement showing the rates for class A State Railway stores, "Iron Bridge-work."

G. C. B. Press, Simla.—No. 374 D. G. R.—26-11-86.—2,000.

Corrected copy with order

[*General Distribution.*]

Circular No. 12.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

THE MANAGERS, NORTH-WESTERN AND EASTERN BENGAL STATE RAILWAYS.
THE ENGINEERS-IN-CHIEF, BELLARY-KISTNA, CUDDAPAH-NELLORE, NAGPUR-BENGAL, SIND-PISHIN, BOLAN, AND SIND-SAGAR STATE RAILWAYS.
THE ENGINEER-IN-CHIEF, FEROZEPORE BRIDGE WORKS.
THE PORT STOREKEEPERS, STATE RAILWAY DEPARTMENT, CALCUTTA, BOMBAY, AND KARACHI.

Simla, November 23, 1886.

SIR,

I have the honor to forward, for information and guidance, a printed statement showing the rates free on board in England, the net weight, and the entire sea-freight per ton for A class State Railway stores, "Iron Bridge-work," contracted for by the India Office from January to December 1885.

2. The rates for landing State Railway stores from vessels at the several ports in India are given in Director General of Railways' Circular No. 22, dated 16th December 1885.

3. The official rate of exchange during the financial year 1885-86 was 1*s.* 7¼*d.* per rupee.

4. In order to arrive at the total cost of materials landed at port, an insurance charge of 1 per cent. on the original cost, *plus* entire sea-freight should be added in addition to the other incidental charges.

5. In ordering stores, only four-fifths of the entire sea-freight should be entered in indents as payable in England.

I have the honor to be,
SIR,
Your most obedient servant,

G. F. WILSON, Captain, R.E.,
for Director General of Railways.

Document accompanying.
Rate List, Class A, "Iron Bridge-work."

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, Burma, Assam and Coorg, Public Works Department.
The Secretaries to the Residents Hyderabad and Mysore, Public Works Department.
The Secretaries to the Agents to the Governor General, Rajputana, Central India, and Biluchistan, Public Works Department.
The Superintendent of Port Blair and Chief Commissioner, Andaman and Nicobar Islands.
The Director General of Telegraphs.
The Inspector General of Military Works.
The Superintendent of Works, Simla Imperial Circle.
The Accountant General, Public Works Department.
The Director-in-Chief, Indo-European Telegraph.
The Director, Persian Gulf Telegraph.
The Comptroller General.
The Accountant General, Bengal.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Guaranteed Railways, Calcutta, Agra, and Lucknow.
The Agents and Chief Engineers, Bengal Central and Bengal and North-Western Railway Companies, Limited.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

Copy forwarded to the Local Governments, Administrations, and Officers noted in the margin for information.

G. F. Wilson
Captain, R.E.,
for Director General.

To The Secretary to the Govt of Madras
Public Works Department

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Enclosure to Director General of Railways' Circular No. 12, dated 23rd November 1886.

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT.		Number of Indent.	For what railway indented for.	DESCRIPTION.				Number of spans contracted for.	Weight of each span.				NUMBER OF INDIA OFFICE DRAWINGS.		CONTRACT RATE F. O. B. IN ENGLAND.		ENTIRE SEA FREIGHT PER TON TO PORT.		Remarks.
No. A.	Date.			Feet. Clear.	Gauge.	Roadway on upper or lower boom.	Detail.		Tons.	cwt.	qrs.	lbs.	Original.	Completion.	Amount.	Unit.	Rate.	Port.	
138	3rd February 1885 ...	54 of 1884	Assam-Behar ...	...	Metre ...	...	Curbs, wrought-iron, for wells, 12′ 6″ diameter.	52	3	19	0	1	492	569	£ s. d. 46 3 1	Each	s. 15-6	C.	
139	3rd February 1885 ...	54 of 1884	Ditto ...	...	,, ...	...	Ditto, 15′ diameter	50	5	11	0	19	493	559	63 2 3	,,	12-9	C.	
							Wrought-iron work ...	...	4	16	2	5	...	...	10 12 6	Ton	...	...	
							Bond rings and covers ...	...	0	6	3	4	...	...	11 14 6	,,	...	...	
							Vertical tie rods and bolts...	...	0	7	0	10	...	...	20 12 6	,,	...	...	
							Service bolts and nuts ...	...	0	0	3	0	...	...	14 7 0	,,	...	...	
160	8th October 1885 ...	71 of 1885	Sind-Sagar ...	...	5′ 6″ ...	...	Curbs, wrought-iron, for wells, 12′ 6″ diameter.	50	3	17	2	10	492	594	64 0 9	Each set	18	K.	
							Bond rings for ditto	100											
							Lower vertical tie rods with bolts	300											
							Upper ditto	300											
157	2nd September 1885 ...	43 of 1885	Ferozepore Bridge Works.	...	,, ...	...	Curbs, wrought-iron for wells; spare parts of—												
							Bond rings 10′ radius	57	36	9	2	6	...	593	16 10 0 or 601 17 0	Ton Total	18	K.	
							Tie rods each 14′ long ...	456	24	16	0	1	...	...	13 10 0 or 334 16 1	Ton Total			
							Ditto 9′ long	228											
148	4th April 1885 ...	Tel. dated 3rd January 1885.	Jhansi-Manickpur	6	5′ 6″ ...	Upper ...	Girders, Plate	10	0	15	2	10	514	565	7 12 10	Span	20	C.	
							Girderwork	...	0	14	3	4	...	...	9 5 0	Ton	...	...	
							Hook bolts	...	0	0	3	6	...	...	20 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	6	5′ 6″ ...	Upper ...	Girders, Plate	37	0	15	2	0	514	622	£ s. d. 7 2 0	Span	s. 16	K.	
							Girderwork	...	0	14	3	0	...	...	8 15 0	Ton	...	...	
							Hook bolts and washers ...	...	0	0	2	6	...	...	18 0 0	,,	...	...	
							Service bolts and washers...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
155	7th August 1885 ...	2 P. R. of 1885.	Lucknow-Sitapur	10	Metre ...	Upper ...	Girders, Plate, complete ...	20	0	18	3	13	342	410	8 14 8	Span	18	B.	
							Wrought-iron Girderwork ...	...	0	17	2	0	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, service bolts, &c.	...	0	1	1	13	...	...	12 10 0	,,	...	...	
152	10th June 1885 ...	47 of 1885	Sind-Pishin ...	10	5′6″ ...	Upper ...	Girders, Plate, complete ...	25	1	4	0	14	529	584	12 2 8	Span	21	K.	
							Wrought-iron Girderwork ...	...	1	3	3	21	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	0	21	...	...	18 0 0	,,	...	...	
166	26th November 1885 ...	40 of 1885	Ferozepore Bridge Works.	10	,, ...	,, ...	,, Plate, complete ...	3	1	4	0	14	529	615	12 5 0	Span	...	K.	
135	6th January 1885 ...	54 and 56 of 1884.	Assam-Behar and Tirhoot.	12	Metre ...	Upper ...	Girders, Plate, complete ...	73	1	5	0	6	337	525	12 17 6	Span	...	...	
							Wrought-iron Girderwork ...	...	1	3	2	4	...	...	9 16 0	Ton	...	...	
							Bolts	...	0	1	1	9	...	...	13 3 0	,,	...	...	
							Service Bolts	...	0	0	0	21	...	...	14 3 0	,,	...	...	
41	3rd February 1885 ...	77 of 1884	Burma ...	12	,, ...	,, ...	,, Plate, complete ...	19	1	4	2	24	337	541	11 19 2	Span	25	R.	
							Wrought-iron Girderwork ...	...	1	3	0	22	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	2	2	...	...	20 0 0	,,	...	...	

CLASS A.—IRON BRIDGE-WORK.

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	No. of spans contracted for.	Weight of each spans. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea Freight per ton to port. Rate.	Port.	Remarks.
147	31st March 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	12	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	15	1	8	3	25	513	546	£ s. d. 13 18 11	Span	s. 16	B.	
							Girderwork	...	1	7	3	23	...	...	9 5 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	0	2	...	...	20 0 0	,,	...	..	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	12	,, ...	,, ...	,, Plate, complete	50	1	9	3	0	513	623	13 8 6	Span	16	K.	
							Girderwork	...	1	8	3	6	...	...	8 15 0	Ton	...	...	
							Hookbolts and washers ...	...	0	0	3	0	...	...	18 0 0	,,	...	...	
							Service bolts and washers ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
141	3rd February 1885 ...	77 of 1884	Burma ...	14	Metre ...	Upper ...	Girders, Plate, complete ...	4	1	10	1	7	413	542	14 12 9	Span	25	R.	
							Wrought-iron Girderwork ...	...	1	8	2	...	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	3	7	...	...	20 0 0	,,	...	...	
135	6th January 1885 ...	54 of 1884	Assam-Behar ...	20	Metre ...	Upper ...	Girders, Plate, complete ...	112	2	10	3	1	336	536	27 6 1	Span	17-6	C.	
							Wrought-iron Girderwork ...	...	2	8	1	27	...	...	10 8 0	Ton	...	...	
							Hookbolts	...	0	2	0	9	...	...	18 15 0	,,	...	...	
							Service bolts	...	0	0	0	21	...	...	14 15 0	,,	...	...	
140	3rd February 1885 ...	78 of 1884	Assam-Behar ...	20	,, ...	,, ...	,, Plate, complete	5	2	10	1	20	336	540	30 18 11	Span	15-6	C.	
141	3rd February 1885 ...	77 of 1884	Burma ...	20	,, ...	,, ...	,, Plate, complete	52	2	9	1	7	336	543	23 16 6	,,	25	R.	
							Wrought-iron Girderwork ...	...	2	7	3	9	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	1	26	...	...	20 0 0	,,	...	...	
155	7th August 1885 ...	2PR. of 1885	Lucknow-Sitapur	20	,, ...	,, ...	,, Plate, complete	12	2	10	1	20	336	Photo.*	23 18 7	Span	18	B.	* Drawing not received from the India Office.
							Wrought-iron Girderwork ...	...	2	8	0	20	...	...	9 7 0	Ton	...	...	
							Bolts, nuts, service bolts, &c.	...	0	2	1	0	...	...	12 10 0	,,	...	...	

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of Spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	20	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	3	8	3	15	387	533	37 17 9	Span	20	K.	
147	31st March 1885 ...	Ditto ...	Ditto ...	20	,, ...	,, ...	Ditto ,, ...	4	3	4	0	14	387	547	31 5 1	,,	20	K.	
							Girder work	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
148	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manikpur	20	,, ...	,, ...	,, Plate, complete	33	3	4	0	14	387	566	31 5 1	Span	24	K.	
							Girderwork	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah	20	,, ...	,, ...	,, Plate, complete	1	3	5	1	21	387	613	32 5 4	Span	17	B.	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	20	,, ...	,, ...	,, Ditto	47	3	4	0	14	387	624	29 2 0	Span	16	K.	
							Girderwork	...	3	2	2	16	...	...	8 17 6	Ton	...	...	
							Hookbolts and washers ...	...	0	1	1	4	...	...	18 0 0	,,	...	...	
							Service bolts and washers ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30	5′ 6″ ...	Between ...	Girders, Plate, complete ...	10	1	17	0	1	449 & 500	562 and photo.	24 2 9	Span	17-6	C.	Of these 10 girders, are end and 6 intermediate.
							Wrought-iron Girderwork ...	...	1	16	3	8	...	...	13 0 0	Ton	...	...	
							Service bolts and washers ...	...	0	0	0	21	...	...	21 0 0	,,	...	...	
158	17th September 1885 ...	31 of 1885	Eastern Bengal ...	30	,, ...	,, ...	,, Plate, complete	2	8	5	0	10	549	621	83 11 6	Span	24	C.	The weight and cost of this span have been taken from the Invoice of S. S. *Brindisi*, which sailed on 23rd March 1886.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30*	,, ...	,, ...	,, Plate, complete	1	2	8	2	14	497	563	31 17 0	,,	17-6	C.	*35′ is the total length.

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	37′ 6″*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	4	2	10	3	14	498	564	33 1 5	Span	17-6	C.	* 37′ 6″ is the total length.
135	6th January 1885 ...	54 of 1884	Assam-Behar ...	40	Metre ...	Upper ...	Girders, Plate, complete ...	31	7	18	3	1	341	558	82 6 7	Span	18	C.	
							Wrought-iron girderwork ...	...	7	14	0	20	...	...	10 3 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	14 10 0	,,	...	...	
							Hookbolts	...	0	3	3	9	...	...	18 10 0	,,	...	...	
145	2nd March 1885 ...	31 of 1884	Tirhoot ...	40	,, ...	,, ...	,, Plate, complete	7	7	17	3	22	341	545	93 8 10	Span	21	C.	
							Wrought-iron girderwork ...	...	7	13	1	27	...	...	11 10 0	Ton	...	...	
							Service bolts	...	0	0	3	2	...	...	20 0 0	,,	...	...	
							Hookbolts	...	0	3	2	21	...	...	24 0 0	,,	...	...	
153	14th July 1885 ...	29 of 1885	Cawnpore-Achnera	40	,, ...	,, ...	,, Plate, complete	3	8	0	0	0	341	606	83 13 2	Span	18	B.	
155	7th August 1885 ...	2 P. R. of 1885.	Lucknow-Sitapur	40	,, ...	,, ...	,, Plate, complete	8	8	0	0	9	341	607	76 14 7	Span	17-6	B.	
							Wrought-iron girderwork ...	...	7	15	2	0	...	...	9 10 0	Ton	...	...	
							,, Bolts, nuts, service bolts, &c....	...	0	4	2	9	...	...	12 10 0	,,	...	...	
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	40	5′ 6″ ...	,, ...	Girders, Plate, complete ...	12	9	18	3	20	388	534	109 0 4	Span	20 17	K. B.	
143	25th February 1885 ...	4 of 1885	Sind-Pishin ...	40	,, ...	,, ...	,, Plate, complete	12	9	11	3	21	388	544	110 6 9	,,	18	K.	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
149	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	40	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	76	9	10	3	12	388	581	96 9 4	Span	22	K.	
							Girderwork	...	9	7	2	24	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	15 15 0	,,	...	...	
							Hookbolts, &c.	...	0	2	1	16	...	...	16 15 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah ...	40	,, ...	...	,, Plate, complete	3	10	1	0	10	388	614	110 12 0	Span	17	B.	
							Girderwork	...	9	16	0	18	...	...	11 0 0	Ton	...	...	
							Bolts and nuts	...	0	2	1	20	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	2	2	0	...	...	18 0 0	,,	...	...	
170	22nd December 1885 ...	36 of 1885	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	30	9	9	0	14	388	625	85 17 6	span	21-3	K.	
							Main girders, covers and bracings.	...	9	3	2	3	...	...	9 0 0	ton	...	...	
							Rivets	...	0	2	1	23	...	...	9 0 0	,,	...	...	
							Service bolts, hookbolts, and washers.	...	0	3	0	16	...	...	13 18 0	,,	...	...	
171	22nd December 1885 ...	,, ...	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	24	9	7	0	11	388	630	92 6 5	Span	32	K	
							Wrought-iron girderwork ...	...	9	4	0	17	...	...	9 15 0	Ton	...	...	
							Hookbolts, &c.	...	0	2	1	0	...	...	18 0 0	,,	...	...	
							Service bolts	...	0	0	2	22	...	...	15 0 0	,,	...	...	
155	7th August 1885 ...	2P.R. of 1885	Lucknow-Sitapur	60	Metre ...	Upper ...	Girders, Warren, complete ...	8	17	12	0	14	419	608-9	178 19 6	Span	23-1	B.	
							Wrought-iron girderwork ...	...	16	19	0	0	...	...	10 1 6	Ton	...	...	
							Bolts, nuts, service bolts, &c. ...	...	0	13	0	14	...	...	12 0 10	,,	...	...	
156	Ditto ...	63 of 1885	Cawnpore-Achnera	60	,, ...	,, ...	,, Warren, complete ...	6	18	9	2	2	419	610-1	180 9 3	Span	20	B.	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section	60	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	23	7	3	22	389	535	257 7 5	Span	14-8	B.	
169	9th December 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	60	,, ...	,, ...	ditto	2	40	3	11	10	586	643	425 10 0	,,	20	B.	
142	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section	80	5′ 6″ ...	Upper ...	Girders Plate complete ...	1	38	5	0	6	469	570-1	477 7 3	Span	27-6	B.	
							Iron-work	...	36	18	1	6	...	...	12 3 6	Ton	...	...	
							Bolts	...	1	6	3	0	...	...	20 17 6	,,	...	...	
168	2nd December 1885 ...	61 of 1885	Bilaspur-Etawah ...	80	...	Between ...	,, Plate, complete	1	61	13	1	3	535	616-7	707 16 6	Span	20	B.	
							Wrought-iron girderwork ...	...	61	5	3	4	...	...	11 10 0	Ton	...	...	
							Bolts, nuts and washers ...	...	0	4	1	27	...	...	22 0 0	,,	...	...	
							Service bolts, &c. ...	...	0	3	0	0	...	...	18 0 0	,,	...	...	
142	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	100	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	83	15	3	0	471	618 560-1	1,009 9 5	Span	17	B.	
							Wrought-iron girderwork ...	...	83	6	2	21	...	...	12 0 0	Ton	...	...	
							Bolts and nuts	...	0	9	0	7	...	...	20 17 6	,,	...	...	
148	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	100	5′ 6″ ...	Upper ...	,, Warren, complete ...	10	66	6	2	20	515	601-2	701 4 11	Span	21	K.	
							Girderwork	...	65	16	2	21	...	...	10 10 0	Ton	...	...	
							Bolts and nuts	...	0	5	0	2	...	...	20 0 0	,,	...	...	
							Service bolts	...	0	4	3	25	...	...	20 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
150	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manickpur	100	5′ 6″ ...	Upper ...	Girders, Warren, complete ...	32	67	0	0	14	515	567-8	£ s. d. 758 3 4	Span	s. 21	K.	
							Girderwork	...	66	11	2	18	...	...	11 5 0	Ton	...	...	
							Bolts and nuts	...	0	4	3	24	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	3	2	0	...	...	18 0 0	,,	...	...	
154	21st July 1885 ...	47 of 1885	Sind-Pishin ...	100	,, ...	Between ...	,, Warren, complete ...	8	83	9	2	16	471	618-9	900 7 7	Span	25	K.	
							Wrought-iron Girderwork ...	...	83	0	2	9	...	...	10 15 0	Ton	...	...	
							Bolts and nuts	...	0	4	2	7	...	...	17 5 0	,,	...	...	
							Service bolts	...	0	4	2	0	...	...	17 5 0	,,	...	...	
171	22nd December ...	36 of 1885	Sind-Sagar ...	100	,, ...	,, ...	,, Triangulated, complete ...	2	87	3	0	12	471	638-9	875 3 6	Span	24	K.	As per invoice.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ..	104*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	1	63	2	0	2	500	587	790 7 3	Span	25	C.	*Is the total length.
158	17th September 1885 ...	31 of 1885	Eastern Bengal ...	116	5′ 6″ ...	Between ...	Girders, Plate, complete, curved for double line of rails.	2	72	18	3	23	548	‡	793 6 0	Span†	Not yet received.		† Bearing girders not included. ‡ Drawing not received from India Office.
							Bearing girders	4	5	2	3	2	...	...	55 17 7	Two	24	C.	
136	7th January 1885 ...	37 of 1884	Rajputana-Malwa	§131′-2″	Metre ...	Upper ...	Girders, Whipple Murphy, complete	3	66 (Exclusive of bolts.)	5	2	8	494-5	555-7	1,041 6 8	Span	Not known		Invoice and Tonnage and Freight account not received.
							Steel girder work in girders and roadway. ...		63	8	2	0	...	...	15 10 0	Ton	...	...	§ This is the total length.
							Steel in rollers	...	0	5	2	0	...	...	30 0 0	,,	...	...	
							Cast-iron in bed plates, saddle and knuckle plates.	...	2	6	3	0	...	...	12 0 0	,,	...	...	
							Wrought-iron in roller frames...	...	0	1	3	0	...	...	25 0 0	,,	...	...	
							Bolts, nuts and washers ...	...	0	3	0	8	...	...	24 0 0	,,	...	...	
							Service bolts, &c.		Not known.						18 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

ASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
140	3rd February 1885 ...	78 of 1885	Assam-Behar ...	150	Metre ...	Between ...	Girders, Triangulated, complete ...	14	96	9	2	10	204-5	590-2	£ s. d. 1,135 14 5	Span	s. 25	C.	Details not given in the Invoice.
							Wrought-iron girderwork and forgings	...	...	...	...	...	...	...	12 0 0	Ton			
							Steel	...	...	...	...	...	...	...	30 0 0	,,			
							Bolts nuts, washers and service bolts	...	...	...	...	...	...	...	18 0 0	,,			
152	10th June 1885 ...	47 of 1885	Sind-Pishin ...	150	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	150	15	2	20	472-3	603-5	1,717 16 11	Span	17	K.	
							Wrought-iron girderwork ...	...	145	3	0	5	...	...	11 5 0	Ton			
							Forgings	...	0	5	3	0	...	...	25 0 0	,,			
							Cast iron work	...	4	0	2	14	...	...	12 0 0	,,			
							Steel rollers	...	0	10	3	0	...	...	25 0 0	,,			
							Bolts and nuts	...	0	8	2	0	...	...	24 0 0	,,			
							Service bolts	...	0	7	0	1	...	...	18 0 0	,,			
162	12th October 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	170	5′ 6″ ...	Between ...	Girders, Whipple Murphy, complete	6	164	9	0	23	572-3	...	1,994 10 9	Span	...	...	Girder not yet received.
							Steel work in girders, bracings, curbs, &c.	...	...	...	...	...	...	...	12 0 0	Ton			
							Steel in corrugated Floor Plates	...	...	...	...	...	...	...	12 0 0	,,			
							Steel in rollers	...	...	...	...	...	...	...	34 10 0	,,			
							Cast iron in bed plates, saddle and knuckle plates.	...	...	...	...	...	...	...	9 10 0	,,			
							Wrought-iron in roller frames	...	...	...	...	...	...	...	18 0 0	,,			
							Bolts, nuts, washers and coach screw	...	...	...	...	...	...	...	16 0 0	,,			
							Service bolts, &c. ...	...	...	...	...	...	...	...	14 0 0	,,			

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
163	21st October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	Between ...	Girders, Triangulated, complete ...	4	312	11	3	14	575-7	626-9 and photo.	£ s. d. 3,990 15 6	Span	s. 19-6	C.	
							Subsequently paid to the contractors for riveting flange plates to booms.	...	...	...	...	...	...	...	49 10 0	,,			
															4,040 5 6				
164	23rd October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	,, ...	,, Triangulated, complete	4	314	5	3	20	575-7	Photos.	3,946 4 5	Span	17	C.	
							Steel in girders bracings, loose rivets, &c.	...	206	17	1	0	...		12 15 0	Ton	...		
							Steel in connecting plates ...	...	1	7	2	0	...	...	12 15 0	,,	...		
							Wrought-iron in floor plates, tees, overhead, cross and rail girders diaphragms, &c., angle bar, rail guard, cantilevers, &c. ...	...	85	17	0	7	...	...	11 15 0	,,	...		
							Steel in rollers and knuckles ...	...	2	18	1	0	...	...	22 10 0	,,	...		
							Cast-iron in bed, saddle and kunckle plates.	...	13	7	2	0	...	...	11 0 0	,,	...		
							Wrought-iron in roller frames ...	...	0	11	3	0	...	...	20 10 0	,,	...		
							Bolts, nuts, &c.	...	1	0	2	27	...	...	18 0 0	,,	...		
							Service bits	...	2	5	3	14	...	...	17 0 0	,,	...		
146	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″	Between ...	Steel and iron work for two cantilevers each 310′ long.	...	2,876	16	0	0	437-55	Photos.	98,806 9 5	Total	Contract not yet completed.		The Central girder span (of 200 feet) connecting these two cantilevers is not included in this contract. Separate contract will be let for this span.
							The weights of the steel and iron work in the different parts of each cantilever are as follow :—												
							Summary of Bukkur Cantilever.												For detailed rates per ton, see Appendix A.
							No. I Struts (steel)	...	17	5	0	10							
							No. II Struts (steel)		44	3	3	12							
							No. III Struts (steel)		220	1	0	12							
							No. III Struts (wrought-iron)		1	16	2	16							

CLASS A.—IRON BRIDGE-WORK.

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
							Summary of Bukkur Cantilever—contd.												
146—*contd.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	Large pillars (steel)	...	166	11	1	12							For detailed rates per ton, see Appendix A.
							Large pillars (wrought-iron)		1	16	2	16							
							Small pillars (steel)		6	16	1	17							
							No. IV Struts (steel)		7	5	2	26							
							Inclined tie (steel)		76	18	1	14							
							Horizontal tie (steel)		76	14	2	24							
							Connections at ends of ditto		9	10	0	17							
							Secondary tie (steel)		6	6	0	10							
							Guys (steel)		200	5	1	22							
							No. I supports for Guys (steel) ...	...	6	9	0	24							
							Foundation bolts and washers (wrought-iron).	...	0	14	0	15							
							No. II supports for Guys (steel) ...	...	6	8	0	10							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							No. III supports for Guys (steel)	...	13	1	2	16							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							Anchors (steel)		29	15	2	18							
							Booms (steel)		147	19	2	14							
							No. I Vertical and Raker (steel) ...	...	4	6	0	17							
							No. II Vertical (steel)		3	18	2	15							
							No. III Vertical and Raker (steel)	...	14	6	1								
							No. II Vertical and Raker (steel)	...	58	12	0	6							

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
146—*contd.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between	*Summary of Bukkur Cantilever—contd.*						A.	A.	£ s. d.		s.		
							Large bed plates (steel) ...	...	49	15	2	10							For detailed rates per ton, see Appendix A.
							Foundation bolts and washer plates (wrought-iron).	...	5	9	0	22							
							Small bed plates (steel) ...	...	3	17	0	24							
							Foundation bolts and washers (wrought iron).	...	0	7	0	14							
							Trimmers (steel)	...	73	11	1	14							
							Bed plates and bolts for trimmers (wrought-iron).	...	0	2	3	2							
							Trusses under trimmers (steel) ...	...	12	15	0	20							
							Distance girders (steel) ...	...	19	18	2	13							
							Wind ties (steel)	...	19	6	2	5							
							Cross girders (steel)	...	30	15	2	4							
							Roadway—												
							Corrugated plates (steel) ...	...	30	3	0	5							
							Road beams curbs, &c., (steel)	...	43	0	2	22							
							Bolts, screws &c. (wrought-iron)	...	2	3	0	6							
							Hand railing (steel)	...	10	2	0	18							
							Bolts, screws, &c., (wrought-iron)	...	0	11	2	8							
							Hand rail standards (steel) ...	...	6	18	1	26							
							Total steel and iron in cantilever on Bukkur side of Pass.	...	1,430	5	1	9							
							NOTE—This total is made up of—												
							Steel ...	...	1,417	0	0	16							
							Wrought-iron ...	...	13	5	0	21							
								...	1,430	5	1	9							

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office. Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
146—*contd.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	*Summary of Haji Motu Cantilever.*		Tons	cwt.	qrs.	lbs.	A.	A.	£ s. d.		s.		For detailed rates per ton, see Appendix A.
							Steel as in Bukkur Cantilever ...	...	1,417	0	0	16							
							Iron as in ditto	...	13	5	0	21							
							Additional Steel in Guy of Haji Motu Cantilever.	...	16	5	1	10							
							Total steel and iron in Cantilever on Haji Motu side of Pass.	...	1,446	10	2	19							
							Total quantities in two cantilevers—												
							Total steel and iron in Bukkur Cantilever.	...	1,430	5	1	9							
							Total steel and iron in Haji Motu Cantilever.	...	1,446	10	2	19							
							Grand Total ...	...	2,876	16	0	0							

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date.	Number of Indent.	For what railway indented for.	Detail.	QUANTITY CONTRACTED FOR. Number.	Weight. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	Port.	Remarks.
												£ s. d.		s.		
151	30th April 1885 ...	108 of 1884 ...	Rajputana-Malwa, Metre gauge.	Hook bolts 8½″ long × ⅞″ diameter screwed for lengths of three inches.	...	2	0	0	0	...	...	15 17 6	Ton	...	B.	
				Ditto screwed for lengths of 4 inches	...	1	0	0	0	...	...	15 17 6	,,	...	,,	
161	12th October 1885 ...	39 of 1885 ...	Indus Valley, 5′ 6″ gauge	Hook bolts 9½″ × ¾″ with nuts and washers.	2,000	2	5	1	3	...	...	17 0 0	,,	17-6	K.	
159	17th September 1885 ...	31 of 1885 ...	Eastern Bengal, 5′ 6″ gauge	Piers, wrought iron, for bridges, broad gauge :—												
				Cast iron cylinders, top lengths marked A.	14	4	19	0	0	551	612	5 15 0	Ton	20	C.	
				Covers for ditto ...	14	3	13	0	0	...	...	5 15 0	,,	,,	,,	
				Cast iron cylinders intermediate lengths marked C.	56	55	10	0	0	...	...	5 15 0	,,	,,	,,	

NOTE.—B.—Bombay; C.—Calcutta; K.—Karachi; M.—Madras; R.—Rangoon.
For rates for landing State Railway Stores, see Director General of Railways' Circular No. 22, dated 16th December 1885.

G. F. WILSON, Captain, R.E.,
for Director General.

Accompaniment to Director General of Railways' Circular No. 12 of 1886.

Rate list class A—Iron Bridge-work.

Appendix A.

(Detailed rates of Iron and Steel work in Sukkur Bridge Cantilevers. Contract No. A. 146.)

Description of Work.	RATE DELIVERED FREE ALONG SIDE IN THE Port of London. £ s. d.	Port of Liverpool or Birkenhead. £ s. d.
For all Steelwork in Booms ... ... per ton	34 5 0	35 15 0
Ditto in Inclined Ties and Bracing ... ... ,,	39 5 0	40 15 0
Ditto in Horizontal Ties and Bracing ... ... ,,	39 5 0	
Ditto in Guys and Bracing ... ... ,,	24 5 0	25 15 0
Ditto in Anchors ... ... ,,	24 5 0	
Ditto in Bed Plates ... ... ,,	30 0 0	31 10 0
Ditto in Pillars and No. 3 Struts ... ... ,,	39 5 0	
Ditto in No. 2 Struts and Bracing ... ... ,,	39 5 0	40 15 0
Ditto in No. 1 Struts ... ... ,,	39 5 0	
Ditto in Verticals and Rakers ... ... ,,	39 5 0	
Ditto in Trimmers ... ... ,,	34 5 0	35 15 0
Ditto in Cross and Distance Girders ... ... ,,		
Ditto in Road Beams and Curbs ... ... ,,	19 0 0	20 10 0
Ditto in Corrugated Floor Plates ... ... ,,	34 5 0	35 15 0
Ditto in other portions ... ... ,,	24 5 0	25 15 0
For all Plate Ironwork ... ... ,,	24 5 0	25 15 0
For all Iron Bars ... ... ,,	39 5 0	40 15 0
For all Wrought Iron in Tubes ... ... ,,	25 0 0	26 10 0
For all Bolts, Nuts, and Washers ... ... ,,	35 0 0	36 10 0
For all Coach and Wood Screws ... ... ,,	35 0 0	
For Spike Nails ... ... ,,	13 0 0	19 0 0
For Service Bolts, &c. ... ... ,,		

Note.—All the above prices include Rivets and Spare Rivets.

G. G. P. Press, Simla.—No. 874 D. G. R.—1-12-86—2,000.

S. H. 248 b of 31-1-89

Communicated to officers concerned, and the rate lists distributed as under:—

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FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

TO

Circular No. 12.

Dated Simla, November 23, 1886.

Received

INDIAN STATE RAILWAYS.

Statement showing the rates for class A State Railway stores, "Iron Bridge-work."

G. C. B. Press, Simla.—No. 374 D. G. R.—26-11-86.—2,000.

S. H. 248 b of 31-1-89

With order

[*General Distribution.*]

Circular No. 12.

FROM THE DIRECTOR GENERAL OF RAILWAYS,

To

THE MANAGERS, NORTH-WESTERN AND EASTERN BENGAL STATE RAILWAYS.
THE ENGINEERS-IN-CHIEF, BELLARY-KISTNA, CUDDAPAH-NELLORE, NAGPUR-BENGAL, SIND-PISHIN, BOLAN, AND SIND-SAGAR STATE RAILWAYS.
THE ENGINEER-IN-CHIEF, FEROZEPORE BRIDGE WORKS.
THE PORT STOREKEEPERS, STATE RAILWAY DEPARTMENT, CALCUTTA, BOMBAY, AND KARACHI.

Simla, November 23, 1886.

SIR,

I have the honor to forward, for information and guidance, a printed statement showing the rates free on board in England, the net weight, and the entire sea-freight per ton for A class State Railway stores, "Iron Bridge-work," contracted for by the India Office from January to December 1885.

2. The rates for landing State Railway stores from vessels at the several ports in India are given in Director General of Railways' Circular No. 22, dated 16th December 1885.

3. The official rate of exchange during the financial year 1885-86 was 1*s.* 7$\frac{1}{4}$*d.* per rupee.

4. In order to arrive at the total cost of materials landed at port, an insurance charge of 1 per cent. on the original cost, *plus* entire sea-freight should be added in addition to the other incidental charges.

5. In ordering stores, only four-fifths of the entire sea-freight should be entered in indents as payable in England.

I have the honor to be,
SIR,
Your most obedient servant,

G. F. WILSON, Captain, R.E.,
for Director General of Railways.

Document accompanying.
Rate List, Class A, "Iron Bridge-work."

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, Burma, Assam and Coorg, Public Works Department.
The Secretaries to the Residents Hyderabad and Mysore, Public Works Department.
The Secretaries to the Agents to the Governor General, Rajputana, Central India, and Bilnchistan, Public Works Department.
The Superintendent of Fort Blair and Chief Commissioner, Andaman and Nicobar Islands.
The Director General of Telegraphs.
The Inspector General of Military Works.
The Superintendent of Works, Simla Imperial Circle.
The Accountant General, Public Works Department.
The Director-in-Chief, Indo-European Telegraph.
The Director, Persian Gulf Telegraph.
The Comptroller General.
The Accountant General, Bengal.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Guaranteed Railways, Calcutta, Agra, and Lucknow.
The Agents and Chief Engineers, Bengal Central and Bengal and North-Western Railway Companies, Limited.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

Copy forwarded to the Local Governments, Administrations, and Officers noted in the margin for information.

G. F. WILSON, Captain, R.E.,
for Director General.

[*General Distribution.*]

Circular No. 12.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

THE MANAGERS, NORTH-WESTERN AND EASTERN BENGAL STATE RAILWAYS.

THE ENGINEERS-IN-CHIEF, BELLARY-KISTNA, CUDDAPAH-NELLORE, NAGPUR-BENGAL, SIND-PISHIN, BOLAN, AND SIND-SAGAR STATE RAILWAYS.

THE ENGINEER-IN-CHIEF, FEROZEPORE BRIDGE WORKS.

THE PORT STOREKEEPERS, STATE RAILWAY DEPARTMENT, CALCUTTA, BOMBAY, AND KARACHI.

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The Secretaries to the Agents to the Governor General, Rajputana, 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 Inspector General of Military Works.
The Superintendent of Works, Simla Imperial Circle.
The Accountant General, Public Works Department.
The Director-in-Chief, Indo-European Telegraph.
The Director, Persian Gulf Telegraph.
The Comptroller General.
The Accountant General, Bengal.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Guaranteed Railways, Calcutta, Agra, and Lucknow.
The Agents and Chief Engineers, Bengal Central and Bengal and North-Western Railway Companies, Limited.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

Copy forwarded to the Local Governments, Administrations, and Officers noted in the margin for information.

G. F. WILSON, Captain, R.E.,
for Director General.

From

THE DIRECTOR GENERAL
OF RAILWAYS,

To

Circular No. 14.

Dated Simla, November 29, 1886.

Received

B. No 149 to 168-189

Communicated to officers concerned, and the copies of the rate list distributed as under:—

Supdg. Engineers
12 Copies each — 72
Supdt. of Works — 5
Consg. Archt — 5
Chn. H. T. Board — 5
Exr. P. W. Accts - 5
office use — 8
100

(Sd) g. o. H.
W.

Supdg. Engrs.
Supdt. of Works T. he. Scheme.
C. A. to Govt
Chairman H. T. Board.
Exr. P.W. Accts.

INDIAN STATE RAILWAYS.

Statement showing rates for B class State Railway Stores "Engineer's Plant (excluding Petty Tools)."

G. C. B. Press, Simla.—No. 366 D. G. R.—2-12-86.—2,000.

With order

[*General Distribution.*]

Circular No. 14.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

THE MANAGERS, NORTH-WESTERN AND EASTERN BENGAL STATE RAILWAYS.

THE ENGINEERS-IN-CHIEF, BELLARY-KISTNA, CUDDAPAH-NELLORE, NAGPUR-BENGAL, SIND-PISHIN, BOLAN AND SIND-SAGAR STATE RAILWAYS.

THE ENGINEER-IN-CHIEF, FEROZEPORE BRIDGE WORKS.

THE PORT STOREKEEPERS, STATE RAILWAY DEPARTMENT, CALCUTTA, BOMBAY, AND KARACHI.

Simla, November 29, 1886.

SIR,

I have the honor to forward, for information and guidance, a printed statement showing the rates free on board in England, the gross weight and the entire sea-freight per ton for B class State Railway Stores "Engineer's Plant (excluding Petty Tools)," contracted for by the India Office from January to December 1885.

2. The rates for landing State Railway Stores from vessels at the several ports in India are given in Director General of Railways' Circular No. 22, dated 16th December 1885.

3. The official rate of exchange during the financial year 1885-86 was 1*s.* $7\frac{1}{4}$*d.* per rupee.

4. In order to arrive at the total cost of materials landed at Port an Insurance charge of one per cent. on the original cost *plus* entire sea-freight should be added in addition to the other incidental charges.

5. In ordering stores, only $\frac{4}{5}$ths of the entire sea-freight should be entered in Indents as payable in England.

I have the honor to be,

SIR,

Your most obedient Servant,

G. F. WILSON, Captain, R.E.,

for Director General.

Document accompanying.
Rate List, Class B.—"Engineer's Plant (excluding Petty Tools)."

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, Burma, Assam and Coorg, Public Works Department.
The Secretaries to the Residents, Hyderabad, and Mysore, Public Works Department.
The Secretaries to the Agents to the Governor General, Rajputana, Central India and Biluchistan, Public Works Department.
The Superintendent of Port Blair and Chief Commissioner, Andaman and Nicobar Islands.
The Director General of Telegraphs.
The Inspector General of Military Works.
The Superintendent of Works, Simla Imperial Circle.
The Accountant General, Public Works Department.
The Director-in-Chief, Indo-European Telegraph.
The Director, Persian Gulf Telegraph.
The Comptroller General.
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The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Guaranteed Railways, Calcutta, Agra and Lucknow.
The Agents and Chief Engineers, Bengal Central and Bengal and North-Western Railway Companies, Limited.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

Copy forwarded to the Local Governments, Administrations, and Officers noted in the margin, for information.

G. F. WILSON, Captain, R.E.,
for Director General.

Enclosure to Director General of Railways' Circular No. 14 of 1886.

RATE LIST.

CLASS B.

ENGINEER'S PLANT (EXCLUDING PETTY TOOLS).

FOR 1885.

Enclosure to Director General of Railways' Circular No. 14 of 1886.

RATE LIST.

CLASS B.

ENGINEER'S PLANT (EXCLUDING PETTY TOOLS).

FOR 1885.

Enclosure to Director General of Railways' Circular No. 14, dated 29th November 1886.

INDIAN STATE RAILWAYS.

CLASS B.—ENGINEER'S PLANT (EXCLUDING PETTY TOOLS).

CLASS B.—ENGINEER'S PLANT (EXCLUDING PETTY TOOLS).

Statement showing rates free on board in England of articles contracted for by the India Office from January to December 1885.

Contract. No. B.	Contract. Date. 1885.	No. of Indent.	For what Railway.	Article.	Details.	Quantity contracted for.	Rate f. o. b. in England as per contract. Amount.	Rate f. o. b. in England as per contract. Unit.	Gross weight.	Entire sea freight per ton to Port. Rate.	Entire sea freight per ton to Port. Port.	Remarks.
							£ s. d.		Ton. Cwt.	S.		
117	21st September ...	40 of '85	Ferozepore Bridge Works	Apparatus, diving.	Complete with pumps *as per Appendix A*	Sets 2	96 0 0	Set	2 10	25	K.	
					Spare India rubber dresses ...	No. 4	5 10 0	Each				
					Air hose without couplings (75′ each length)...	Lengths 6	7 1 6	,,				
					India rubber wrist rings ...	No. 24	0 0 4	,,				
					Maker's Nos. on pulley blocks. / Lifting capacity of blocks in tons. / Diameter of pulley and sheave.							
122	4th June ...	69 of '84	Rajputana-Malwa ...	Blocks, differential, pulley (Weston's),—pulleys for—	5956 — 3 — 13″	6	0 10 0	Each	0 18	...	B.	Freight not known as no tonnage and freight account has been received from India Office.
					96477 — 3 — 13″	6						
					125490 — 2 — 14″	1						
					125488 — 2 — 14″	1						
					46003 — 2 — 14″	1						
					105906 — 2 — 14″	1						
					125491 — 2 — 14″	1						
					125492 — 2 — 14″	1	0 9 0	,,				
					125487 — 2 — 14″	5						
					No number — 2 — 7½″	4						
					96480 / 3 — 2 — 7½″	4						
					96478 — 2 — 7½″	4						
					No number — 1½ — 7½″	6						
					96484 / G — 1½ — 7½″	6	0 8 0	,,				
					2079 / B — 1 — 8″	2						
					4783 / B — 1 — 8″	2						
					4786 / B — 1 — 8″	2	0 4 0	,,				
					4783 / B — 1 — 8″	2						
					4784 — 1 — 8″	2						
					34751 — 1 — 7½″	2						
					65285 — 1 — 7½″	2						

Statement showing rates free on board in England of articles contracted for by the India Office from January to December 1885—contd.

CONTRACT. No. B.	CONTRACT. Date. 1885.	No. of Indent.	For what Railway.	Article.	Details.	Quantity contracted for.	RATE f. o. b. IN ENGLAND AS PER CONTRACT. Amount.	RATE f. o. b. IN ENGLAND AS PER CONTRACT. Unit.	Gross weight.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	ENTIRE SEA FREIGHT PER TON TO PORT. Port.	Remarks.
							£ s. d.		Ton. Cwt.	S. D.		
120	17th September ...	40 of '85	Ferozepore Bridge Works	Engines, steam, portable.	Six H.P. without reversing gear to burn wood (India Office completion drawing No. B $\frac{160}{1-10}$)	3	580 0 0	Total	19 10	20 0	K.	
Do.	Ditto ...	Do.	Ditto ...		Ten H.P. without reversing gear to burn wood (India Office completion drawing No. B $\frac{161}{1-8}$)	4	1,030 0 0	"	37 10	22 6	K.	
121	4th June ...	16 of '85	Wardha Coal ...	Engines, steam, fire boxes for—	Fire box, Lowmoor, wrought iron, for Clayton and Shuttleworth's portable engine No. 6260, 10-H. P.	1	26 0 0	Each	1 2	13 0	B.	
131	15th October ...	41 of '85	Wardha Coal ...		Fire box, Lowmoor, wrought iron for Robey engine No. 5875 of 12-H.P	1	42 12 0	"	1 12	17 6	B.	
116	13th January ...	68 of '84	Cawnpur-Kalpi ...	Hoists, steam.	Five ton, complete with steel boiler, wrought iron carriages, &c., (India Office completion drawing No. B $\frac{153}{1-7}$)	6	325 0 0	Each	11 14	30 0	C.	
					Boilers, spare (all steel) 4′ × 9′ and cylinders 9″ × 14″.		18 10 0	Per hoist				
128	12th October ...	39 of '85	Indus Valley ...	Jacks, screw, traversing.	Ten ton	12	3 6 6	Each	0 17	18 0	K	
					Spare ratchets with levers complete for ditto	21	0 15 0	"				
140	31st December ...	75 of '85	Ferozepore Bridge Works		Fifteen ton, tested to 19 tons	10	6 0 0	Each	1 8	12 0	K	
123	3rd July ...	19 of '85	Nagpur-Chhattisgarh ...	Jim crows.	With levers complete for 41¼ lbs. rails, steel, flat-footed.	2	5 0 0	Total	0 5	18 0	B	
134	31st October ...	45 of '85	Nagpur-Chhattisgarh ...		With levers complete for 41¼ lbs. rails, steel, flat-footed, weighing 96 lbs. each exclusive of the levers.	2	5 15 0	Total	0 3	20 0	B	

Statement showing rates free on board in England of articles contracted for by the India Office from January to December 1885—contd.

CONTRACT. No. B.	CONTRACT. Date. 1885.	Number of Indent.	For what Railway.	Article.	Details.	Quantity contracted for.	RATE f. o. b. IN ENGLAND AS PER CONTRACT. Amount.	RATE f. o. b. IN ENGLAND AS PER CONTRACT. Unit.	Gross Weight.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	ENTIRE SEA FREIGHT PER TON TO PORT. Port.	Remarks.
							£ s. d.		Ton Cwt.	S. D.		
135	9th November ...	40 of '85	Ferozepore Bridge Works	Mills, soorkee grinding.	Horizontal cornish crushing rollers, including cast iron bed plates. Each machine is fully capable of producing 50 cubic feet of powder per hour from half bricks.	2	243 0 0	Each	10 13	18 0	K	India Office completion drawing Nos. B $\frac{164}{1-5}$ and B $\frac{165}{1-4}$.
					Ditto supplied with elevator and screw to render them automatic.	2	311 0 0	"	14 0	20 0	K	
G1008	30th March ...	60 of '84	Indus Valley ...	Oars	Ash, 16 feet long	24	12 13 6	Total ...	0 13	15 0	K	
					" 14 " "	6						
...	... ...	77 of '85	Bolan ...	Piping, wrought iron and materials for—	4 inch, in 15 and 18 foot lengths	Lengths 4,084 = 71,505 feet.	0 1 6	Foot				
							or 5,362 17 6	Total				
					Flanges, wrought iron, with bolts and nuts ...	25 pairs	1 13 0	Pair				
							or 41 5 0	Total				
					Brushes, tube, fibre, 4″	6	0 1 3	Each				
							or 0 7 6	Total				
					„ „ steel „	6	0 3 3	Each				
							or 0 19 6	Total				
					Gloves, plate layers	30 pairs	0 1 6	Pair				
							or 2 5 0	Total				
					T clips	10	0 11 6	Each	336 15	21 0	K	No contract was let. These were supplied by the War Office.
							or 5 15 0	Total				
					Reinforcing clips	No. 20	0 8 6	Each				
							or 8 10 0	Total				
					Tongs, pipes 4″	6 pairs	1 10 0	Pair				
							or 9 0 0	Total				
					Air vessels, wrought iron, for 4″ pipes with flanges.	2	4 4 7	Each				
							or 8 9 2	Total				
					Cases	6	0 5 0	Each				
							or 1 10 0	Total				
					Expenses at Woolwich in sorting out, packing, &c.	...	41 17 0	Total				
					Total ...	...	5,482 15 8					

INDIAN STATE RAILWAYS.

CLASS B.—ENGINEER'S PLANT (EXCLUDING PETTY TOOLS).

CLASS B.—ENGINEER'S PLANT (EXCLUDING PETTY TOOLS).

Statement showing rates free on board in England of articles contracted for by the India Office from January to December 1885—contd.

Contract. No. B.	Contract. Date. 1885.	Number of Indent.	For what Railway.	Article.	Details.	Quantity contracted for.	Rate f. o. b. in England as per contract. Amount.	Rate f. o. b. in England as per contract. Unit.	Gross weight.	Entire sea freight per ton to port. Rate.	Entire sea freight per ton to port. Port.	Remarks.
							£ s. d.		Ton. Cwt.	S. D.		
133	27th October ...	77 of '85	Bolan ...	Piping, wrought iron, materials for—	Bends, 90° wrought iron	25	0 11 8	Each	1 15	21 0	K	These are required for use with the 4" wrought iron piping supplied by the War Office.
					„ 120° „ „	70	0 11 8	„				
					Tee pieces, wrought iron	9	0 17 6	„				
					Ditto ditto special	2	1 8 0	„				
					Caps, wrought iron for dead ends of piping ...	20	0 9 6	„				
					Sluice valves (taps) for 1,800 lbs. pressure with 2 flanges each, bolts, &c.	9	8 5 0	„	2 1	20 0	K	
					Pet cocks ¼" bore of gunmetal with screwed ends	20	0 4 6	„				
136	20th November ...	77 of '85	Bolan ...	Piping, wrought iron, tools for—	Machines, hand power, combined pipecutting and screwing, from 2" up to 4" bore, suitable for fixing to a bench, with 2 sets of dies and cutters for each size of pipe for each of the above machines.	2	125 0 0	Total	1 13	14 8	K	From the Invoice of S. S. *Marlborough* which sailed on 11th January 1886.
					Taps for recutting dies (one for each machine)	2	26 0 0	„				
					Taps for tapping or clearing the threads in the socket couplings.	2	42 0 0	„				
					Pipe vices	2	4 0 0	„				
					Taps suitable for tapping holes for pet cocks ¼" bore	2	0 4 6	„				
					Dies	4 Sets	11 0 0	„				
					Special master taps and clearing taps ...	2 of each	24 10 0	„				
					Duplicate cutters for the machines ...	2	0 3 0	„				

INDIAN STATE RAILWAY.

CLASS B.—ENGINEER'S PLANT (EXCLUDING PETTY TOOLS).

CLASS B.—ENGINEER'S PLANT (EXCLUDING PETTY TOOLS).

Statement showing rates free on board in England of articles contracted for by the India Office from January to December 1885—contd.

Contract. No. B.	Contract. Date. 1885.	Number of Indent.	For what Railway.	Article.	Details.	Quantity contracted for.	Rate f. o. b. in England as per contract. Amount.	Rate f. o. b. in England as per contract. Unit.	Gross weight.	Entire sea freight per ton to port. Rate.	Entire sea freight per ton to port. Port.	Remarks.
							£ s. d.		Ton. Cwt.	S. D.		
138	23rd December ...	75 of '85	Ferozepore Bridge Works	Press, rail-straightening.	For 62 lbs. flat-footed rails, complete with punching gear (India Office completion drawing No. B166.)	1	26 0 0	Each	0 16	15 0	K	
126	17th September ...	40 of '85	Ferozepore Bridge Works	Pulsometers; boilers for—	With fittings complete for supplying steam to Pulsometers. The boilers to be 25-H. P. nominal each, of the locomotive type and mounted on wheels. Each boiler to be fitted with 100 lineal feet of strong wrought iron gaspiping of 2" bore fitted with wrought iron flanges faced and drilled to template and fitted with bolts for connecting them. (India Office completion drawing No. B $\frac{163}{1-4}$.)	2	830 0 0	Total	28 7	70 0	K	
130	24th September ...	77 of '85	Bolan	Pumps, pressure, Worthington.	Complete with duplicates, boilers, &c., *as per Appendix B.* (India Office original drawing No. B 154.)	2	841 12 0	Total	18 4	41 6	K	
									0 11	16 0	K	Of the duplicate parts.
118	7th March ...	92 of '84	Northern Bengal ...	Ramps.	For 41½ lbs. rails	6	11 0 0	Total	1 5	12 0	C	Details not known.
					3 Right hand							
					3 Left hand							
119	27th April ...	100 of '84	Tirhoot ...		Carriage, *Russell's patent*, for 41½ lbs. rails ...	12	7 0 0	Per set of two.	0 11	12 6	C	
124	10th July ...	19 of '85	Nagpur-Chhattisgarh ...		*Stroudley's*, crucible, cast steel, for 41½ lbs. rails	8	14 15 0	Total	0 7	14 11	B	
					4 Left							
					4 Right							
					Engine, *Russell's patent*, for 75 lbs. rails ...	30 = 15 sets	9 10 0	Set	4 2	22 6	C	
125	21st July ...	20 of '85	Eastern Bengal ...		Carriage and wagon, ditto ...	10 = 5 sets	7 7 0	„				
137	24th November ...	60 of '85	Naraingunge-Dacca-Mymensingh ...		*Russell's*, for 41½ lbs. rails	20	7 0 0	Pair	0 18	15 0	C	

Statement showing rates free on board in England of Articles contracted for by the India Office from January to December 1885—(concld.)

CLASS B.—ENGINEER'S PLANT (EXCLUDING PETTY TOOLS).

CONTRACT. No. B.	CONTRACT. Date. 1885.	Number of Indent.	For what Railway.	Article.	Details.	Quantity contracted for.	RATE f. o. b. IN ENGLAND AS PER CONTRACT. Amount.	RATE f. o. b. IN ENGLAND AS PER CONTRACT. Unit.	Gross weight.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	ENTIRE SEA FREIGHT PER TON TO PORT. Port.	REMARKS.
139	22nd December ...	Telegram dated 4th, December 1885. 1 of '86	Cawnpore-Kalpi ...	Ropes wire.	Crucible, steel (flexible), each 5,000 feet long 2¼ inch circumference. Full details of the ropes are as follows :— No. of strands ... ... 6 No. of wires in each strand ... 19 Diameter of each wire ... ·051 inch Breaking strain of ditto ... 325 lbs. Extension of ditto in a length of 6 inches. ·006 inch to ·012 inch No. of twist per foot of strand ... 4 No. of twist per foot of finished rope 2½ Breaking strain of each strand ... 6,175 lbs. Breaking strain of finished ropes 16½ tons. Safe working load of ditto 3 „ Weight for fathom of ditto 6 lbs. Total weight of ditto 10,000 „	2	£ s. d. 1 7 6 or 122 15 4	Cwt. Total	Ton. Cwt. 4 10	S. D. 25 0	B.	
129	26th September ...	40 of '85 ...	Ferozepore Bridge Works	Skips ...	3′ × 3′ × 2′ complete for concrete ...	6	7 2 6	Each	6 10	16 0	K.	
117	11th February ...	47 of '84 ...	Wardha Coal ...	Ventilator, automatic, nine; spare parts of—	Recorder and Telltale (of W. H. Bailey and Company's make) for automatically recording variations in mine ventilation, the water gauge and the speed of the fan together with worm and wheel to connect it with the fan shaft.	1	39 10 0	„	0 9	15 0	B.	
					Spare water gauges (Daglish's patent) to be of Bailey and Company's make and indicator connections to the steam cylinders of the fan.	12	18 5 0	Total				
132	15th October ...	40 of '85 ...	Ferozepore Bridge Works	Winches steam.	Five ton, with boilers and wrought-iron carriage complete.	2	416 0 0	Each	25 15	17 3	K	
					300 feet lengths of chain each with hook and link.	2	23 0 0	„				
					Swivel snatch blocks	4	7 19 0	„				

NOTE. B.—Bombay. C.—Calcutta. K.—Karachi. M.—Madras. R.—Rangoon.
For landing charges see Director General of Railway's Circular No. 22, dated 16th December 1885.

G. F. WILSON, Captain, R.E.,
for Director General.

G. C. B. Press, Simla.—No. 316 D. G. R.—2-12-86.—2,000.

Accompaniment to Director General of Railways' Circular No. 14 of 1886.

CLASS B—ENGINEER'S PLANT (EXCLUDING PETTY TOOLS).

APPENDIX A.

Estimate for diving apparatus complete for one diver.

A three motion diving air pump with three large sized gunmetal cylinders, forged iron crank and two handles, copper cistern with apparatus to keep the cylinders cool, and an arrangement for examination of valves without removing the air pump from chest, the whole fitted in a strong wood chest, with iron caps to protect the crank ends.

1 fly wheel with wrought iron spokes.

Till fitted in interior of chest contains 3 spanners, 1 oil can, 1 screw driver, 2 double connecting union joints, spare valves and springs, and 6 spare helmet nut and screws.

1 strong wood helmet and seamen's chest containing 1 improved helmet with segmental screw to remove the head piece by one-eighth of a turn, strong plate glasses in brass frames, front one to unscrew, brass collar and screws with which the dress is fastened water tight, one outlet valve and one gunmetal inlet valve with regulating valve on head piece.

1 helmet cushion stuffed with horse hair.

1 helmet nut spanner.

100 feet of India rubber air pipe with gunmetal union joints.

2 waterproof diving dresses with vulcanized India rubber collars and cuffs.

12 vulcanized wrist bands.

4 guernsey frocks, 4 pairs drawers.

4 pairs stockings, 1 woollen cap.

1 pair overall stockings, 1 neckerchief.

1 canvas overall dress 90 feet signal line.

1 pair boots, lead soles, 2 lead weights.

1 knife in watertight case.

1 leather belt and gunmetal pipe holder.

1 can solution, 1 sheet prepared canvas.

1 spare brass screw frame for helmet.

2 spare glasses, 1 book of instruction complete.

Accompaniment to Director General of Railways' Circular No. 14 of 1886.

CLASS B—ENGINEER'S PLANT (EXCLUDING PETTY TOOLS).

APPENDIX B.

	£	s.	d.

Two Worthington "Pressure" pumps.

Each pump is to have two steam cylinders each 7½" diameter; two double acting externally packed water plungers each 4¼" diameter, all of 10" stroke (7½" × 4¼" × 10") and each capable of delivering 30,000 gallons in ten hours (50 gallons per minute) to a height of 400 feet through about 2½ miles of delivery pipe, the diameter of which shall not be less than 4" with an effective steam pressure of 85lbs. per square inch, and when running at a piston speed of about 40 feet per minute.

Pumps to be supplied with the following extras, side pipes and strainers, suitable foot and check valves, vacuum chambers and charging pipes and connections.

Two duplicate sets of working parts for the above, comprising spare pistons, plungers, rods, rings, cylinder covers, valves, seats, guards, springs, crossheads, links, levers, rock shafts, &c., &c.

Two duplicate sets of side pipes and strainers, foot and check valves, charging pipes, &c., &c.

Two 3 × 1½ × 3 Worthington boiler feeding pumps.

Two sets of duplicate parts for the above.

Two 16-H. P. Locomotive Multitubular boilers constructed for a working pressure of 120 to 140 lbs. to the square inch, mounted on wrought iron wheels and equipped with enlarged firebox for burning wood and refuse as fuel, firing tools, spanners, check valves and two 1½" gunmetal stop cocks to connect to pumps, in addition to stop valves on boilers also two Gresham and Craven's injectors with all connections complete.

Two galvanised wrought iron tanks each 200 gallons.

Copper pipes and bends for connecting check valves with rising mains of pumps with spare lengths to admit of position of pumps being slightly altered. Connections from boiler feed pump to banks for suction to boilers for delivery steam and exhaust connection for same. Injector connections to tank. A suitable length of 2" exhaust pipe and bends with a few spare connecting pieces, say 24 feet with sockets. All the above connections and fittings numbered to allow of their being ready re-put together.

Packing for shipment.

The whole of the above delivered free on board London for the sum of eight hundred and forty-one pounds twelve shillings nett 841 12 0

N.B.—4" foot valves have been quoted by the contractors on the understanding that 4" suction pipe is to be used.

The boiler specified above will be manufactured by Messrs. Marshall Sons and Co. of Gainsborough and thoroughly tested at their works.

THE DIRECTOR GENERAL
OF RAILWAYS,

To

109.80

PW.519/87

Circular No. 12.

Dated Simla, November 23, 1886.

Received

16 copies
for the current Section
28-1-87

INDIAN STATE RAILWAYS.

Statement showing the rates for class A State Railway stores, "Iron Bridge-work."

G. C. B. Press, Simla.—No. 374 D. G. R.—26-11-86.—2,000.

[*General Distribution.*]

Circular No. 12.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

THE MANAGERS, NORTH-WESTERN AND EASTERN BENGAL STATE RAILWAYS.
THE ENGINEERS-IN-CHIEF, BELLARY-KISTNA, CUDDAPAH-NELLORE, NAGPUR-BENGAL, SIND-PISHIN, BOLAN, AND SIND-SAGAR STATE RAILWAYS.
THE ENGINEER-IN-CHIEF, FEROZEPORE BRIDGE WORKS.
THE PORT STOREKEEPERS, STATE RAILWAY DEPARTMENT, CALCUTTA, BOMBAY, AND KARACHI.

Simla, November 23, 1886.

SIR,

I have the honor to forward, for information and guidance, a printed statement showing the rates free on board in England, the net weight, and the entire sea-freight per ton for A class State Railway stores, "Iron Bridge-work," contracted for by the India Office from January to December 1885.

2. The rates for landing State Railway stores from vessels at the several ports in India are given in Director General of Railways' Circular No. 22, dated 16th December 1885.

3. The official rate of exchange during the financial year 1885-86 was 1*s.* 7¼*d.* per rupee.

4. In order to arrive at the total cost of materials landed at port, an insurance charge of 1 per cent. on the original cost, *plus* entire sea-freight should be added in addition to the other incidental charges.

5. In ordering stores, only four-fifths of the entire sea-freight should be entered in indents as payable in England.

I have the honor to be,
SIR,
Your most obedient servant,

G. F. WILSON, Captain, R.E.,
for Director General of Railways.

Document accompanying.
Rate List, Class A, "Iron Bridge-work."

Copy forwarded to the Local Governments, Administrations, and Officers noted in the margin for information.

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, Burma, Assam and Coorg, Public Works Department.
The Secretaries to the Residents Hyderabad and Mysore, Public Works Department.
The Secretaries to the Agents to the Governor General, Rajputana, Central India, and Biluchistan, Public Works Department.
The Superintendent of Port Blair and Chief Commissioner, Andaman and Nicobar Islands.
The Director General of Telegraphs.
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The Director-in-Chief, Indo-European Telegraph.
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The Agent and General Manager, Assam Railways and Trading Company, Limited.

G. F. WILSON, Captain, R.E.,
for Director General.

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

To

Circular No. 12.

Dated Simla, November 23, 1886.

Received

INDIAN STATE RAILWAYS.

Statement showing the rates for class A State Railway stores, "Iron Bridge-work."

G. C. B. Press, Simla.—No. 374 D. G. R.—26-11-86.—2,000.

[*General Distribution.*]

Circular No. 12.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

To

THE MANAGERS, NORTH-WESTERN AND EASTERN BENGAL STATE RAILWAYS.

THE ENGINEERS-IN-CHIEF, BELLARY-KISTNA, CUDDAPAH-NELLORE, NAGPUR-BENGAL, SIND-PISHIN, BOLAN, AND SIND-SAGAR STATE RAILWAYS.

THE ENGINEER-IN-CHIEF, FEROZEPORE BRIDGE WORKS.

THE PORT STOREKEEPERS, STATE RAILWAY DEPARTMENT, CALCUTTA, BOMBAY, AND KARACHI.

Simla, November 23, 1886.

SIR,

I have the honor to forward, for information and guidance, a printed statement showing the rates free on board in England, the net weight, and the entire sea-freight per ton for A class State Railway stores, "Iron Bridge-work," contracted for by the India Office from January to December 1885.

2. The rates for landing State Railway stores from vessels at the several ports in India are given in Director General of Railways' Circular No. 22, dated 16th December 1885.

3. The official rate of exchange during the financial year 1885-86 was 1*s.* 7¼*d.* per rupee.

4. In order to arrive at the total cost of materials landed at port, an insurance charge of 1 per cent. on the original cost, *plus* entire sea-freight should be added in addition to the other incidental charges.

5. In ordering stores, only four-fifths of the entire sea-freight should be entered in indents as payable in England.

I have the honor to be,
SIR,
Your most obedient servant,

G. F. WILSON, Captain, R.E.,
for Director General of Railways.

Document accompanying.
Rate List, Class A, "Iron Bridge-work."

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, Burma, Assam and Coorg, Public Works Department.
The Secretaries to the Residents Hyderabad and Mysore, Public Works Department.
The Secretaries to the Agents to the Governor General, Rajputana, Central India, and Biluchistan, Public Works Department.
The Superintendent of Port Blair and Chief Commissioner, Andaman and Nicobar Islands.
The Director General of Telegraphs.
The Inspector General of Military Works.
The Superintendent of Works, Simla Imperial Circle.
The Accountant General, Public Works Department.
The Director-in-Chief, Indo-European Telegraph.
The Director, Persian Gulf Telegraph.
The Comptroller General.
The Accountant General, Bengal.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Guaranteed Railways, Calcutta, Agra, and Lucknow.
The Agents and Chief Engineers, Bengal Central and Bengal and North-Western Railway Companies, Limited.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

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3. The official rate of exchange during the financial year 1885-86 was 1*s.* 7$\frac{1}{4}$*d.* per rupee.

4. In order to arrive at the total cost of materials landed at port, an insurance charge of 1 per cent. on the original cost, *plus* entire sea-freight should be added in addition to the other incidental charges.

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The Secretaries to the Agents to the Governor General, Rajputana, Central India, and Biluchistan, Public Works Department.
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The Accountant General, Public Works Department.
The Director-in-Chief, Indo-European Telegraph.
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THE DIRECTOR GENERAL
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G. F. WILSON, Captain, R.E.,
for Director General.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Enclosure to Director General of Railways' Circular No. 12, dated 23rd November 1886.

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date.	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet. Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	Port.	Remarks.
															£ s. d.		s.		
138	3rd February 1885 ...	54 of 1884	Assam-Behar ...	...	Metre ...	...	Curbs, wrought-iron, for wells, 12′ 6″ diameter.	52	3	19	0	1	492	569	46 3 1	Each	15-6	C.	
139	3rd February 1885 ...	54 of 1884	Ditto ...	...	,, ...	...	Ditto, 15′ diameter	50	5	11	0	19	493	559	63 2 3	,,	12-9	C.	
							Wrought-iron work		4	16	2	5	...	...	10 12 6	Ton	...	...	
							Bond rings and covers		0	6	3	4	...	...	11 14 6	,,	...	...	
							Vertical tie rods and bolts... ...		0	7	0	10	...	...	20 12 6	,,	...	...	
							Service bolts and nuts		0	0	3	0	...	...	14 7 0	,,	...	...	
160	8th October 1885 ...	71 of 1885	Sind-Sagar ...	...	5′ 6″ ...	...	Curbs, wrought-iron, for wells, 12′ 6″ diameter.	50	3	17	2	10	492	594	64 0 9	Each set	18	K.	
							Bond rings for ditto	100											
							Lower vertical tie rods with bolts	300											
							Upper ditto	300											
157	2nd September 1885 ...	43 of 1885	Ferozepore Bridge Works.	...	,, ...	...	Curbs, wrought-iron for wells; spare parts of—												
							Bond rings 10′ radius	57	36	9	2	6	...	593	16 10 0 or 601 17 0	Ton Total	18	K.	
							Tie rods each 14′ long ...	456	24	16	0	1	...	...	13 10 0 or 334 16 1	Ton Total			
							Ditto 9′ long	228											
148	4th April 1885 ...	Tel. dated 3rd January 1885.	Jhansi-Manickpur	6	5′ 6″ ...	Upper ...	Girders, Plate	10	0	15	2	10	514	565	7 12 10	Span	20	C.	
							Girderwork	...	0	14	3	4	...	...	9 5 0	Ton	...	...	
							Hook bolts	...	0	0	3	6	...	...	20 0 0	,,	...	...	

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	No. of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	6	5′ 6″ ...	Upper ...	Girders, Plate	37	0	15	2	0	514	622	7 2 0	Span	16	K.	
							Girderwork	...	0	14	3	0	...	...	8 15 0	Ton	...	...	
							Hook bolts and washers ...	...	0	0	2	6	...	...	18 0 0	,,	...	...	
							Service bolts and washers...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
153	7th August 1885 ...	2 P. R. of 1885.	Lucknow-Sitapur	10	Metre ...	Upper ...	Girders, Plate, complete ...	20	0	18	3	13	342	410	8 14 8	Span	18	B.	
							Wrought-iron Girderwork ...	...	0	17	2	0	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, service bolts, &c. ...	...	0	1	1	13	...	...	12 10 0	,,	...	...	
152	10th June 1885 ...	47 of 1885	Sind-Pishin ...	10	5′6″ ...	Upper ...	Girders, Plate, complete ...	25	1	4	0	14	529	584	12 2 8	Span	21	K.	
							Wrought-iron Girderwork ...	...	1	3	3	21	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	0	21	...	...	18 0 0	,,	...	...	
156	26th November 1885 ...	40 of 1885	Ferozepore Bridge Works.	10	,, ...	,, ...	,, Plate, complete ...	3	1	4	0	14	529	615	12 5 0	Span	...	K.	
135	6th January 1885 ...	54 and 56 of 1884.	Assam-Behar and Tirhoot.	12	Metre ...	Upper ...	Girders, Plate, complete ...	73	1	5	0	6	337	525	12 17 6	Span	...	...	
							Wrought-iron Girderwork ...	...	1	3	2	4	...	...	9 16 0	Ton	...	...	
							Bolts	...	0	1	1	9	...	...	18 3 0	,,	...	...	
							Service Bolts	...	0	0	0	21	...	...	14 3 0	,,	...	...	
11	3rd February 1885 ...	77 of 1884	Burma ...	12	,, ...	,, ...	,, Plate, complete ...	19	1	4	2	24	337	541	11 19 2	Span	25	R.	
							Wrought-iron Girderwork ...	...	1	3	0	22	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	2	2	...	...	20 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail	No. of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea Freight per ton to port. Rate. s.	Port.	Remarks.
147	31st March 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	12	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	15	1	8	3	25	513	546	13 18 11	Span	16	B.	
							Girderwork	...	1	7	3	23	...	...	9 5 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	0	2	...	...	20 0 0	,,	...	...	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	12	,, ...	,, ...	,, Plate, complete	50	1	9	3	0	513	623	13 8 6	Span	16	K.	
							Girderwork	...	1	8	3	6	...	...	8 15 0	Ton	...	...	
							Hookbolts and washers ...	...	0	0	3	0	...	...	18 0 0	,,	...	...	
							Service bolts and washers ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
141	3rd February 1885 ...	77 of 1884	Burma ...	14	Metre ...	Upper ...	Girders, Plate, complete ...	4	1	10	1	7	413	542	14 12 9	Span	25	R.	
							Wrought-iron Girderwork ...	...	1	8	2	...	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	3	7	...	...	20 0 0	,,	...	...	
135	6th January 1885 ...	54 of 1884	Assam-Behar ...	20	Metre ...	Upper ...	Girders, Plate, complete ...	112	2	10	3	1	336	536	27 6 1	Span	17-6	C.	
							Wrought-iron Girderwork ...	...	2	8	1	27	...	...	10 8 0	Ton	...	...	
							Hookbolts	...	0	2	0	9	...	...	18 15 0	,,	...	...	
							Service bolts	...	0	0	0	21	...	...	14 15 0	,,	...	...	
140	3rd February 1885 ...	78 of 1884	Assam-Behar ...	20	,, ...	,, ...	,, Plate, complete	5	2	10	1	20	336	540	30 18 11	Span	15-6	C.	
141	3rd February 1885 ...	77 of 1884	Burma ...	20	,, ...	,, ...	,, Plate, complete	52	2	9	1	7	336	543	23 16 6	,,	25	R.	
							Wrought-iron Girderwork ...	...	2	7	3	9	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	1	26	...	...	20 0 0	,,	...	...	
155	7th August 1885 ...	2PR. of 1885	Lucknow-Sitapur	20	,, ...	,, ...	,, Plate, complete	12	2	10	1	20	336	Photo.*	23 18 7	Span	18	B.	* Drawing not received from the India Office.
							Wrought-iron Girderwork ...	...	2	8	0	20	...	...	9 7 0	Ton	...	...	
							Bolts, nuts, service bolts, &c.	...	0	2	1	0	...	...	12 10 0	,,	...	...	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date.	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of Spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount. £. s. d.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	20	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	3	8	3	15	387	533	37 17 9	Span	20	K.	
147	31st March 1885 ...	Ditto ...	Ditto ...	20	,, ...	,, ...	Ditto	4	3	4	0	14	387	547	31 5 1	,,	20	K.	
							Girder work	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
148	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manikpur	20	,, ...	,, ...	,, Plate, complete	33	3	4	0	14	387	566	31 5 1	Span	24	K.	
							Girderwork	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
165	3th November 1885 ...	61 of 1885	Bilaspur-Etawah	20	,, ...	,, ...	,, Plate, complete	1	3	5	1	21	387	613	32 5 4	Span	17	B.	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	20	,, ...	,, ...	,, Ditto	47	3	4	0	14	387	624	29 2 0	Span	16	K.	
							Girderwork	...	3	2	2	16	...	...	8 17 6	Ton	...	...	
							Hookbolts and washers ...	...	0	1	1	4	...	...	18 0 0	,,	...	...	
							Service bolts and washers ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30	5′ 6″ ...	Between ...	Girders, Plate, complete ...	10	1	17	0	1	449 & 500	562 and photo.	24 2 9	Span	17-6	C.	Of these 10 girders, are end and 6 intermediate.
							Wrought-iron Girderwork ...	...	1	16	3	8	...	...	13 0 0	Ton	...	...	
							Service bolts and washers ...	...	0	0	0	21	...	...	21 0 0	,,	...	...	
136	17th September 1885 ...	31 of 1885	Eastern Bengal ...	30	,, ...	,, ...	,, Plate, complete	2	8	5	0	10	549	621	83 11 6	Span	24	C.	The weight and cost of this span have been taken from the Invoice of S. S. *Brindisi*, which sailed on 23rd March 1886.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30*	,, ...	,, ...	,, Plate, complete	1	2	8	2	14	497	563	31 17 0	,,	17-6	C.	* 35′ is the total length.

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date.	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount. £ s. d.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate. s.	Port.	Remarks.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	37′ 6″*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	4	2	10	3	14	498	564	33 1 5	Span	17-6	C.	* 37′ 6″ is the total length.
135	6th January 1885 ...	54 of 1884	Assam-Behar ...	40	Metre ...	Upper ...	Girders, Plate, complete ...	31	7	18	3	1	341	558	82 6 7	Span	18	C.	
							Wrought-iron girderwork ...	...	7	14	0	20	...	...	10 3 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	14 10 0	,,	...	...	
							Hookbolts	...	0	3	3	9	...	...	18 10 0	,,	...	...	
145	2nd March 1885 ...	31 of 1884	Tirhoot ...	40	,, ...	,, ...	,, Plate, complete	7	7	17	3	22	341	545	93 8 10	Span	21	C.	
							Wrought-iron girderwork ...	...	7	13	1	27	...	...	11 10 0	Ton	...	...	
							Service bolts	...	0	0	3	2	...	...	20 0 0	,,	...	...	
							Hookbolts	...	0	3	2	21	...	...	24 0 0	,,	...	...	
153	14th July 1885 ...	29 of 1885	Cawnpore-Achnera	40	,, ...	,, ...	,, Plate, complete	3	8	0	0	0	341	606	83 13 2	Span	18	B.	
155	7th August 1885 ...	2 P. R. of 1885.	Lucknow-Sitapur	40	,, ...	,, ...	,, Plate, complete	8	8	0	0	9	341	607	76 14 7	Span	17-6	B.	
							Wrought-iron girderwork ...	...	7	15	2	0	...	...	9 10 0	Ton	...	...	
							,, Bolts, nuts, service bolts, &c....	...	0	4	2	9	...	...	12 10 0	,,	...	...	
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Kutni-Umaria Section.	40	5′ 6″ ...	,, ...	Girders, Plate, complete ...	12	9	18	3	20	388	534	109 0 4	Span	20 17	K. B.	
143	25th February 1885 ...	4 of 1885	Sind-Pishin ...	40	,, ...	,, ...	,, Plate, complete	12	9	11	3	21	388	544	110 6 9	,,	18	K.	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
149	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	40	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	76	9	10	3	12	388	581	96 9 4	Span	22	K.	
							Girderwork	...	9	7	2	24	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	15 15 0	,,	...	...	
							Hookbolts, &c.	...	0	2	1	16	...	...	16 15 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah ...	40	,, ...	...	,, Plate, complete	3	10	1	0	10	388	614	110 12 0	Span	17	B.	
							Girderwork	...	9	16	0	18	...	...	11 0 0	Ton	...	...	
							Bolts and nuts	...	0	2	1	20	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	2	2	0	...	...	18 0 0	,,	...	...	
170	22nd December 1885 ...	36 of 1885	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	30	9	9	0	14	388	625	85 17 6	span	21-3	K.	
							Main girders, covers and bracings.	...	9	3	2	3	...	...	9 0 0	ton	...	...	
							Rivets	...	0	2	1	23	...	...	9 0 0	,,	...	...	
							Service bolts, hookbolts, and washers.	...	0	3	0	16	...	...	13 18 0	,,	...	...	
171	22nd December 1885 ...	,, ...	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	24	9	7	0	11	388	630	92 6 5	Span	32	K	
							Wrought-iron girderwork ...	...	9	4	0	17	...	...	9 15 0	Ton	...	...	
							Hookbolts, &c.	...	0	2	1	0	...	...	18 0 0	,,	...	...	
							Service bolts	...	0	0	2	22	...	...	15 0 0	,,	...	...	
155	7th August 1885 ...	2P. R. of 1885	Lucknow-Sitapur	60	Metre ...	Upper ...	Girders, Warren, complete ...	8	17	12	0	14	419	608-9	178 19 6	Span	23-1	B.	
							Wrought-iron girderwork ...	...	16	19	0	0	...	...	10 1 6	Ton	...	...	
							Bolts, nuts, service bolts, &c. ...	...	0	13	0	14	...	...	12 0 10	,,	...	...	
156	Ditto ...	63 of 1885	Cawnpore-Achnera	60	,, ...	,, ...	,, Warren, complete ...	6	18	9	2	2	419	610-1	180 9 3	Span	20	B.	

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Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section	60	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	23	7	3	22	389	535	257 7 5	Span	14-8	B.	
169	9th December 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	60	,, ...	,, ...	ditto	2	40	3	11	10	586	643	425 10 0	,,	20	B.	
142	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	80	5′ 6″ ...	Upper ...	Girders Plate complete ...	1	38	5	0	6	469	570-1	477 7 3	Span	27-6	B.	
							Iron-work	...	36	18	1	6	...	...	12 3 6	Ton	...	...	
							Bolts	...	1	6	3	0	...	...	20 17 6	,,	...	...	
168	2nd December 1885 ...	61 of 1885	Bilaspur-Etawah ...	80	...	Between ...	,, Plate, complete	1	61	13	1	3	585	616-7	707 16 6	Span	20	B.	
							Wrought-iron girderwork ...	...	61	5	3	4	...	...	11 10 0	Ton	...	...	
							Bolts, nuts and washers ...	...	0	4	1	27	...	...	22 0 0	,,	...	...	
							Service bolts, &c. ...	...	0	3	0	0	...	...	18 0 0	,,	...	...	
140	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	100	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	83	15	3	0	471	618 560-1	1,009 9 5	Span	17	B.	
							Wrought-iron girderwork ...	...	83	6	2	21	...	...	12 0 0	Ton	...	...	
							Bolts and nuts	...	0	9	0	7	...	...	20 17 6	,,	...	...	
148	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	100	5′ 6″ ...	Upper ...	,, Warren, complete ...	10	66	6	2	20	515	601-2	701 4 11	Span	21	K.	
							Girderwork	...	65	16	2	21	...	...	10 10 0	Ton	...	...	
							Bolts and nuts	...	0	5	0	2	...	...	20 0 0	,,	...	...	
							Service bolts	...	0	4	3	25	...	...	20 0 0	,,	...	...	

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
													A.	A.	£ s. d.		s.		
150	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manickpur	100	5′ 6″ ...	Upper ...	Girders, Warren, complete ...	32	67	0	0	14	515	567-8	758 3 4	Span	21	K.	
							Girderwork	...	66	11	2	18	...	...	11 5 0	Ton	...	...	
							Bolts and nuts	...	0	4	3	24	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	3	2	0	...	...	18 0 0	,,	...	...	
154	21st July 1885 ...	47 of 1885	Sind-Pishin ...	100	,, ...	Between ...	,, Warren, complete ...	8	83	9	2	16	471	618-9	900 7 7	Span	25	K.	
							Wrought-iron Girderwork ...	...	83	0	2	9	...	...	10 15 0	Ton	...	...	
							Bolts and nuts	...	0	4	2	7	...	...	17 5 0	,,	...	...	
							Service bolts	...	0	4	2	0	...	...	17 5 0	,,	...	...	
171	22nd December ...	36 of 1885	Sind-Sagar ...	100	,, ...	,, ...	,, Triangulated, complete ...	2	87	3	0	12	471	638-9	875 3 6	Span	24	K.	As per invoice.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ..	104*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	1	63	2	0	2	500	587	790 7 3	Span	25	C.	*Is the total length.
158	17th September 1885 ...	31 of 1885	Eastern Bengal ...	116	5′ 6″ ...	Between ...	Girders, Plate, complete, curved for double line of rails.	2	72	18	3	23	548	‡	793 6 0	Span†	Not yet received.		† Bearing girders not included. ‡ Drawing not received from India Office.
							Bearing girders	4	5	2	3	2	...	...	55 17 7	Two	24	C.	
136	7th January 1885 ...	37 of 1884*	Rajputana-Malwa	§131′-2″	Metre ...	Upper ...	Girders, Whipple Murphy, complete	3	66 (Exclusive of bolts.)	5	2	8	494-5	555-7	1,041 6 8	Span	Not known		Invoice and Tonnage and Freight account not received.
							Steel girder work in girders and roadway.	...	63	8	2	0	...	...	15 10 0	Ton	...	...	§ This is the total length.
							Steel in rollers	...	0	5	2	0	...	...	30 0 0	,,	...	...	
							Cast-iron in bed plates, saddle and knuckle plates.	...	2	6	3	0	...	...	12 0 0	,,	...	...	
							Wrought-iron in roller frames...	...	0	1	3	0	...	...	25 0 0	,,	...	...	
							Bolts, nuts and washers ...	...	0	3	0	8	...	...	24 0 0	,,	...	...	
							Service bolts, &c.		Not known.						18 0 0	,,	...	...	

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Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
													A.	A.	£ s. d.		s.		
140	3rd February 1885 ...	78 of 1885	Assam-Behar ...	150	Metre ...	Between ...	Girders, Triangulated, complete ...	14	96	9	2	10	204-5	590-2	1,135 14 5	Span	25	C.	Details not given in the Invoice.
							Wrought-iron girderwork and forgings	...	...	...	...	...	...	...	12 0 0	Ton			
							Steel	...	...	...	...	...	...	...	30 0 0	,,			
							Bolts nuts, washers and service bolts	...	...	...	...	...	...	...	18 0 0	,,			
152	10th June 1885 ...	47 of 1885	Sind-Pishin ...	150	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	150	15	2	20	472-3	603-5	1,717 16 11	Span	17	K.	
							Wrought-iron girderwork ...	...	145	3	0	5	...	...	11 5 0	Ton			
							Forgings	...	0	5	3	0	...	...	25 0 0	,,			
							Cast iron work	...	4	0	2	14	...	...	12 0 0	,,			
							Steel rollers	...	0	10	3	0	...	...	25 0 0	,,			
							Bolts and nuts	...	0	8	2	0	...	...	24 0 0	,,			
							Service bolts	...	0	7	0	1	...	...	18 0 0	,,			
162	12th October 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	170	5′ 6″ ...	Between ...	Girders, Whipple Murphy, complete	6	164	9	0	23	572-3	...	1,994 10 9	Span	...	...	Girder not yet received.
							Steel work in girders, bracings, curbs, &c.	...	...	...	...	...	...	...	12 0 0	Ton			
							Steel in corrugated Floor Plates	...	...	...	...	...	...	...	12 0 0	,,			
							Steel in rollers	...	...	...	...	...	...	...	34 10 0	,,			
							Cast iron in bed plates, saddle and knuckle plates.	...	...	...	...	...	...	...	9 10 0	,,			
							Wrought-iron in roller frames	...	...	...	...	...	...	...	18 0 0	,,			
							Bolts, nuts, washers and coach screw	...	...	...	...	...	...	...	16 0 0	,,			
							Service bolts, &c. ...	...	...	...	...	...	...	...	14 0 0	,,			

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Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
									Tons.	cwt.	qrs.	lbs.	A.	A.	£ s. d.		s.		
163	21st October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	Between ...	Girders, Triangulated, complete ...	4	312	11	3	14	575-7	626-9 and photo.	3,990 15 6	Span	19-6	C.	
							Subsequently paid to the contractors for riveting flange plates to booms.	...	...	...	...	...	...	...	49 10 0	,,			
															4,040 5 6				
164	23rd October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	,, ...	,, Triangulated, complete	4	314	5	3	20	575-7	Photos.	3,946 4 5	Span	17	C.	
							Steel in girders bracings, loose rivets, &c.	...	206	17	1	0	...		12 15 0	Ton	...		
							Steel in connecting plates ...	...	1	7	2	0	...	...	12 15 0	,,	...		
							Wrought-iron in floor plates, tees, overhead, cross and rail girders diaphragms, &c., angle bar, rail guard, cantilevers, &c. ...	...	85	17	0	7	...	...	11 15 0	,,	...		
							Steel in rollers and knuckles ...	...	2	18	1	0	...	...	22 10 0	,,	...		
							Cast-iron in bed, saddle and kunckle plates.	...	13	7	2	0	...	...	11 0 0	,,	...		
							Wrought-iron in roller frames ...	...	0	11	3	0	...	...	20 10 0	,,	...		
							Bolts, nuts, &c.	...	1	0	2	27	...	...	18 0 0	,,	...		
							Service bits	...	2	5	3	14	...	...	17 0 0	,,	...		
146	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″	Between ...	Steel and iron work for two cantilevers each 310′ long.	...	2,876	16	0	0	437-55	Photos.	98,806 9 5	Total	Contract not yet completed.		The Central girder span (of 200 feet) connecting these two cantilevers is not included in this contract. Separate contract will be let for this span.
							The weights of the steel and iron work in the different parts of each cantilever are as follow :—												For detailed rates per ton, see Appendix A.
							Summary of Bukkur Cantilever.												
							No. I Struts (steel)	...	17	5	0	10							
							No. II Struts (steel)	...	44	3	3	12							
							No. III Struts (steel)	...	220	1	0	12							
							No. III Struts (wrought-iron) ...	...	1	16	2	16							

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Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
									Tons.	cwt.	qrs.	lbs.	A.	A.	£ s. d.		s.		
146—contd.	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	*Summary of Bukkur Cantilever*—contd.												
							Large pillars (steel)	...	166	11	1	12							For detailed rates per ton, see Appendix A.
							Large pillars (wrought-iron) ...	...	1	16	2	16							
							Small pillars (steel)	...	6	16	1	17							
							No. IV Struts (steel)	...	7	5	2	26							
							Inclined tie (steel)	...	76	18	1	14							
							Horizontal tie (steel)	...	76	14	2	24							
							Connections at ends of ditto ...	...	9	10	0	17							
							Secondary tie (steel)	...	6	6	0	10							
							Guys (steel)	...	200	5	1	22							
							No. I supports for Guys (steel) ...	...	6	9	0	24							
							Foundation bolts and washers (wrought-iron).	...	0	14	0	15							
							No. II supports for Guys (steel) ...	...	6	8	0	10							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							No. III supports for Guys (steel)	...	13	1	2	16							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							Anchors (steel)	...	29	15	2	18							
							Booms (steel)	...	147	19	2	14							
							No. I Vertical and Raker (steel) ...	...	4	6	0	17							
							No. II Vertical (steel)	...	3	18	2	15							
							No. III Vertical and Raker (steel)	...	14	6	1								
							No. II Vertical and Raker (steel)	...	58	12	0	6							

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Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
146—*contd.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between	*Summary of Bukkur Cantilever—concld.*						A.	A.			s.		
							Large bed plates (steel)		49	15	2	10							For detailed rates per ton, see Appendix A.
							Foundation bolts and washer plates (wrought-iron). ...		5	9	0	22							
							Small bed plates (steel)		3	17	0	24							
							Foundation bolts and washers (wrought iron). ...		0	7	0	14							
							Trimmers (steel)		73	11	1	14							
							Bed plates and bolts for trimmers (wrought-iron). ...		0	2	3	2							
							Trusses under trimmers (steel)		12	15	0	20							
							Distance girders (steel)		19	18	2	13							
							Wind ties (steel)		19	6	2	5							
							Cross girders (steel)		30	15	2	4							
							Roadway—												
							Corrugated plates (steel)		30	3	0	5							
							Road beams curbs, &c., (steel) ...		43	0	2	22							
							Bolts, screws &c. (wrought-iron) ...		2	3	0	6							
							Hand railing (steel)		10	2	0	18							
							Bolts, screws, &c., (wrought-iron) ...		0	11	2	8							
							Hand rail standards (steel)		6	18	1	26							
							Total steel and iron in cantilever on Bukkur side of Pass. ...		1,430	5	1	9							
							NOTE—This total is made up of—												
							Steel		1,417	0	0	16							
							Wrought-iron		13	5	0	21							
								...	1,430	5	1	9							

INDIAN STATE RAILWAYS.

CLASS A—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office. drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
146—*contd.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	*Summary of Haji Motu Cantilever.*		Tons	cwt.	qrs.	lbs.	A.	A.			s.		For detailed rates per ton, see Appendix A.
							Steel as in Bukkur Cantilever		1,417	0	0	16							
							Iron as in ditto		13	5	0	21							
							Additional Steel in Guy of Haji Motu Cantilever. ...		16	5	1	10							
							Total steel and iron in Cantilever on Haji Motu side of Pass. ...		1,446	10	2	19							
							Total quantities in two cantilevers—												
							Total steel and iron in Bukkur Cantilever. ...		1,430	5	1	9							
							Total steel and iron in Haji Motu Cantilever. ...		1,446	10	2	19							
							Grand Total		2,876	16	0	0							

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Detail.	Quantity Contracted for. Number.	Weight. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
151	30th April 1885 ...	103 of 1884 ...	Rajputana-Malwa, Metre gauge.	Hook bolts 8½" long × ¾" diameter screwed for lengths of three inches.	...	2	0	0	0	...	...	15 17 6	Ton	...	B.	
				Ditto screwed for lengths of 4 inches	...	1	0	0	0	...	..	15 17 6	,,	...	,,	
161	12th October 1885 ...	39 of 1885 ...	Indus Valley, 5′ 6″ gauge	Hook bolts 9½" × ¾" with nuts and washers.	2,000	2	5	1	3	...	...	17 0 0	,,	17·6	K.	
139	17th September 1885 ...	31 of 1885 ...	Eastern Bengal, 5′ 6″ gauge	Piers, wrought iron, for bridges, broad gauge :—												
				Cast iron cylinders, top lengths marked A.	14	4	19	0	0	551	612	5 15 0	Ton	20	C.	
				Covers for ditto ...	14	3	13	0	0	...	...	5 15 0	,,	,,	,,	
				Cast iron cylinders intermediate lengths marked C.	56	55	10	0	0	...	...	5 15 0	,,	,,	,,	

NOTE.—B.—Bombay; C.—Calcutta; K.—Karachi; M.—Madras; R.—Rangoon.
For rates for landing State Railway Stores, see Director General of Railways' Circular No. 22, dated 16th December 1885.

G. F. WILSON, Captain, R.E.,
for Director General.

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Accompaniment to Director General of Railways' Circular No. 12 of 1886.

Rate list class A—Iron Bridge-work.

Appendix A.

(Detailed rates of Iron and Steel work in Sukkur Bridge Cantilevers. Contract No. A. 146.)

Description of Work.	Rate Delivered Free Along Side in the Port of London. £ s. d.	Port of Liverpool or Birkenhead. £ s. d.
For all Shoalwork in Booms ... ... per ton	24 5 0	35 15 0
Ditto in Inclined Ties and Bracing ... ... ,,	39 5 0	40 15 0
Ditto in Horizontal Ties and Bracing ... ... ,,	29 5 0	
Ditto in Guys and Bracing ... ... ,,	24 5 0	25 15 0
Ditto in Anchors ... ... ,,	24 5 0	
Ditto in Anchors ... ... ,,	30 0 0	31 10 0
Ditto in Bed Plates ... ... ,,	39 5 0	
Ditto in Pillars and No. 3 Struts ... ... ,,	29 5 0	40 15 0
Ditto in No. 2 Struts and Bracing ... ... ,,	29 5 0	
Ditto in No. 1 Struts ... ... ,,	29 5 0	
Ditto in Verticals and Rakers ... ... ,,		
Ditto in Trimmers ... ... ,,	34 5 0	35 15 0
Ditto in Cross and Distance Girders ... ... ,,		
Ditto in Road Bands and Curbs ... ... ,,	19 0 0	20 10 0
Ditto in Corrugated Floor Plates ... ... ,,	24 5 0	35 15 0
Ditto in other portions ... ... ,,	24 5 0	25 15 0
For all Plate Ironwork ... ... ,,	24 5 0	25 15 0
For all Iron Bars ... ... ,,	39 5 0	40 15 0
For all Wrought Iron in Tubes ... ... ,,	25 0 0	26 10 0
For all Bolts, Nuts, and Washers ... ... ,,	35 0 0	36 10 0
For all Cast and Wood Screws ... ... ,,	35 0 0	
For Spike Nails ... ... ,,	13 0 0	19 0 0
For Service Bolts, &c. ... ... ,,		

Note.—All the above prices include Rivets and Spare Rivets.

G. C. R. Press, Simla.—No. 874 D. S.—1-12-86—3,000.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	6	5′ 6″ ...	Upper ...	Girders, Plate	37	0	15	2	0	514	622	7 2 0	Span	16	K.	
							Girderwork	...	0	14	3	0	...	...	8 15 0	Ton	...	...	
							Hook bolts and washers ...	...	0	0	2	6	...	...	18 0 0	,,	...	...	
							Service bolts and washers...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
155	7th August 1885 ...	2 P. R. of 1885.	Lucknow-Sitapur	10	Metre ...	Upper ...	Girders, Plate, complete ...	20	0	18	3	13	342	410	8 14 8	Span	18	B.	
							Wrought-iron Girderwork ...	...	0	17	2	0	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, service bolts, &c.	...	0	1	1	13	...	...	12 10 0	,,	...	...	
152	10th June 1885 ...	47 of 1885	Sind-Pishin ...	10	5′6″ ...	Upper ...	Girders, Plate, complete ...	25	1	4	0	14	529	584	12 2 8	Span	21	K.	
							Wrought-iron Girderwork ...	...	1	3	3	21	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	0	21	...	...	18 0 0	,,	...	...	
166	26th November 1885 ...	40 of 1885	Ferozepore Bridge Works.	10	,, ...	,, ...	,, Plate, complete ...	3	1	4	0	14	529	615	12 5 0	Span	...	K.	
135	6th January 1885 ...	54 and 56 of 1884.	Assam-Behar and Tirhoot.	12	Metre ...	Upper ...	Girders, Plate, complete ...	73	1	5	0	6	337	525	12 17 6	Span	...	...	
							Wrought-iron Girderwork ...	...	1	3	2	4	...	...	9 16 0	Ton	...	...	
							Bolts	...	0	1	1	9	...	...	18 3 0	,,	...	...	
							Service Bolts	...	0	0	0	21	...	...	14 3 0	,,	...	...	
41	3rd February 1885 ...	77 of 1884	Burma ...	12	,, ...	,, ...	,, Plate, complete ...	19	1	4	2	24	337	541	11 19 2	Span	25	B.	
							Wrought-iron Girderwork ...	...	1	3	0	22	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	2	2	...	...	20 0 0	,,	...	...	

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail	No. of spans contracted for.	Weight of each spans. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea Freight per ton to port. Rate. s.	Port.	Remarks.
147	31st March 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	12	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	15	1	8	3	25	513	546	* 13 18 11	Span	16	B.	
							Girderwork	...	1	7	3	23	...	...	9 5 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	0	2	...	...	20 0 0	,,	...	...	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	12	,, ...	,, ...	,, Plate, complete	50	1	9	3	0	513	623	13 8 6	Span	16	K.	
							Girderwork	...	1	8	3	6	...	...	8 15 0	Ton	...	...	
							Hookbolts and washers ...	...	0	0	3	0	...	...	18 0 0	,,	...	...	
							Service bolts and washers ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
141	3rd February 1885 ...	77 of 1884	Burma ...	14	Metre ...	Upper ...	Girders, Plate, complete ...	4	1	10	1	7	413	542	14 12 9	Span	25	R.	
							Wrought-iron Girderwork ...	...	1	8	2	...	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	3	7	...	...	20 0 0	,,	...	...	
135	6th January 1885 ...	54 of 1884	Assam-Behar ...	20	Metre ...	Upper ...	Girders, Plate, complete ...	112	2	10	3	1	336	536	27 6 1	Span	17-6	C.	
							Wrought-iron Girderwork ...	...	2	8	1	27	...	...	10 8 0	Ton	...	...	
							Hookbolts	...	0	2	0	9	...	...	18 15 0	,,	...	...	
							Service bolts	...	0	0	0	21	...	...	14 15 0	,,	...	...	
140	3rd February 1885 ...	78 of 1884	Assam-Behar ...	20	,, ...	,, ...	,, Plate, complete	5	2	10	1	20	336	540	30 18 11	Span	15-6	C.	
141	3rd February 1885 ...	77 of 1884	Burma ...	20	,, ...	,, ...	,, Plate, complete	52	2	9	1	7	336	543	23 16 6	,,	25	R.	
							Wrought-iron Girderwork ...	...	2	7	3	9	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	1	26	...	...	20 0 0	,,	...	...	
155	7th August 1885 ...	2PR. of 1885	Lucknow-Sitapur	20	,, ...	,, ...	,, Plate, complete	12	2	10	1	20	336	Photo.	23 18 7	Span	18	B.	* Drawing not received from the India Office.
							Wrought-iron Girderwork ...	...	2	8	0	20	...	...	9 7 0	Ton	...	...	
							Bolts, nuts, service bolts, &c.	...	0	2	1	0	...	...	12 10 0	,,	...	...	

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of Spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	20	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	3	8	3	15	387	533	37 17 9	Span	20	K.	
147	31st March 1885 ...	Ditto ...	Ditto ...	20	,, ...	,, ...	Ditto	4	3	4	0	14	387	547	31 5 1	,,	20	K.	
							Girder work	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
148	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manikpur	20	,, ...	,, ...	,, Plate, complete	33	3	4	0	14	387	566	31 5 1	Span	24	K.	
							Girderwork	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah	20	,, ...	,, ...	,, Plate, complete	1	3	5	1	21	387	613	32 5 4	Span	17	B.	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	20	,, ...	,, ...	,, Ditto	47	3	4	0	14	387	624	29 2 0	Span	16	K.	
							Girderwork	...	3	2	2	16	...	...	8 17 6	Ton	...	...	
							Hookbolts and washers ...	...	0	1	1	4	...	...	18 0 0	,,	...	...	
							Service bolts and washers ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30	5′ 6″ ...	Between ...	Girders, Plate, complete ...	10	1	17	0	1	449 & 500	562 and photo.	24 2 9	Span	17-6	C.	Of these 10 girders, are end and 6 intermediate.
							Wrought-iron Girderwork ...	...	1	16	3	8	...	...	13 0 0	Ton	...	...	
							Service bolts and washers ...	...	0	0	0	21	...	...	21 0 0	,,	...	...	
158	17th September 1885 ...	31 of 1885	Eastern Bengal ...	30	,, ...	,, ...	,, Plate, complete	2	8	5	0	10	549	621	83 11 6	Span	24	C.	The weight and cost of this span have been taken from the Invoice of S. S. *Brindisi*, which sailed on 23rd March 1886.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30*	,, ...	,, ...	,, Plate, complete	1	2	8	2	14	497	563	31 17 0	,,	17-6	C.	* 35′ is the total length.

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	37′ 6″*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	4	2	10	3	14	498	564	33 1 5	Span	17-6	C.	* 37′ 6″ is the total length.
135	6th January 1885 ,,	54 of 1884	Assam-Behar ...	40	Metre ...	Upper ...	Girders, Plate, complete ...	31	7	18	3	1	341	558	82 6 7	Span	18	C.	
							Wrought-iron girderwork ...	...	7	14	0	20	...	...	10 3 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	14 10 0	,,	...	...	
							Hookbolts	...	0	3	3	9	...	...	18 10 0	,,	...	...	
145	2nd March 1885 ...	31 of 1884	Tirhoot ...	40	,, ...	,, ...	,, Plate, complete	7	7	17	3	22	341	545	93 8 10	Span	21	C.	
							Wrought-iron girderwork ...	...	7	13	1	27	...	...	11 10 0	Ton	...	...	
							Service bolts	...	0	0	3	2	...	...	20 0 0	,,	...	...	
							Hookbolts	...	0	3	2	21	...	...	24 0 0	,,	...	...	
153	14th July 1885 ...	29 of 1885	Cawnpore-Achnera	40	,, ...	,, ...	,, Plate, complete	3	8	0	0	0	341	606	83 13 2	Span	18	B.	
155	7th August 1885 ...	2 P. R. of 1885.	Lucknow-Sitapur	40	,, ...	,, ...	,, Plate, complete	8	8	0	0	9	341	607	76 14 7	Span	17-6	B.	
							Wrought-iron girderwork ...	...	7	15	2	0	...	...	9 10 0	Ton	...	...	
							,, Bolts, nuts, service bolts, &c....	...	0	4	2	9	...	...	12 10 0	,,	...	...	
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Kutni-Umaria Section.	40	5′ 6″ ...	,, ...	Girders, Plate, complete ...	12	9	18	3	20	388	534	109 0 4	Span	20 17	K. B.	
143	25th February 1885 ...	4 of 1885	Sind-Pishin ...	40	,, ...	,, ...	,, Plate, complete	12	9	11	3	21	388	544	110 6 9	,,	18	K.	

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
149	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	40	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	76	9	10	3	12	388	581	96 9 4	Span	22	K.	
							Girderwork	...	9	7	2	24	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	15 15 0	,,	...	...	
							Hookbolts, &c.	...	0	2	1	16	...	...	16 15 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah ...	40	,, ...	...	,, Plate, complete	3	10	1	0	10	388	614	110 12 0	Span	17	B.	
							Girderwork	...	9	16	0	18	...	...	11 0 0	Ton	...	...	
							Bolts and nuts	...	0	2	1	20	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	2	2	0	...	...	18 0 0	,,	...	...	
170	22nd December 1885 ...	36 of 1885	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	30	9	9	0	14	388	625	85 17 6	span	21-3	K.	
							Main girders, covers and bracings. ...		9	3	2	3	...	...	9 0 0	ton	...	...	
							Rivets	...	0	2	1	23	...	...	9 0 0	,,	...	...	
							Service bolts, hookbolts, and washers. ...		0	3	0	16	...	...	13 18 0	,,	...	...	
171	22nd December 1885 ...	,, ...	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	24	9	7	0	11	388	630	92 6 5	Span	32	K	
							Wrought-iron girderwork ...	...	9	4	0	17	...	...	9 15 0	Ton	...	...	
							Hookbolts, &c.	...	0	2	1	0	...	...	18 0 0	,,	...	...	
							Service bolts	...	0	0	2	22	...	...	15 0 0	,,	...	...	
155	7th August 1885 ...	2P.R. of 1885	Lucknow-Sitapur	60	Metre ...	Upper ...	Girders, Warren, complete ...	8	17	12	0	14	419	608-9	178 19 6	Span	23-1	B.	
							Wrought-iron girderwork ...	...	16	19	0	0	...	...	10 1 6	Ton	...	...	
							Bolts, nuts, service bolts, &c. ...	...	0	13	0	14	...	...	12 0 10	,,	...	...	
156	Ditto ...	63 of 1885	Cawnpore-Achnera	60	,, ...	,, ...	,, Warren, complete ...	6	18	9	2	2	419	610-1	180 9 3	Span	20	B.	

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section	60	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	23	7	3	22	389	535	257 7 5	Span	14-8	B.	
169	9th December 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	60	,, ...	,, ...	ditto	2	40	3	11	10	586	643	425 10 0	,,	20	B.	
142	5th February 1885 ...	3 of 1885.	Bilaspur-Etawah, Katni-Umaria Section.	80	5′ 6″ ...	Upper ...	Girders Plate complete ...	1	38	5	0	6	469	570-1	477 7 3	Span	27-6	B.	
							Iron-work	...	36	18	1	6	...	...	12 3 6	Ton	...	...	
							Bolts	...	1	6	3	0	...	...	20 17 6	,,	...	...	
168	2nd December 1885 ...	61 of 1885	Bilaspur-Etawah ...	80	...	Between ...	,, Plate, complete	1	61	13	1	3	585	616-7	707 16 6	Span	20	B.	
							Wrought-iron girderwork ...	...	61	5	3	4	...	...	11 10 0	Ton	...	...	
							Bolts, nuts and washers ...	...	0	4	1	27	...	...	22 0 0	,,	...	...	
							Service bolts, &c. ...	...	0	3	0	0	...	...	18 0 0	,,	...	...	
142	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section,	100	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	83	15	3	0	471	618 560-1	1,009 9 5	Span	17	B.	
							Wrought-iron girderwork ...	...	83	6	2	21	...	...	12 0 0	Ton	...	...	
							Bolts and nuts	...	0	9	0	7	...	...	20 17 6	,,	...	...	
148	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	100	5′ 6″ ...	Upper ...	,, Warren, complete ...	10	66	6	2	20	515	601-2	701 4 11	Span	21	K.	
							Girderwork	...	65	16	2	21	...	...	10 10 0	Ton	...	...	
							Bolts and nuts	...	0	5	0	2	...	...	20 0 0	,,	...	...	
							Service bolts	...	0	4	3	25	...	...	20 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
													A.	A.	£ s. d.		s.		
150	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manickpur	100	5′ 6″ ...	Upper ...	Girders, Warren, complete ...	32	67	0	0	14	515	567-8	758 3 4	Span	21	K.	
							Girderwork	...	66	11	2	18	...	...	11 5 0	Ton	...	...	
							Bolts and nuts	...	0	4	3	24	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	3	2	0	...	...	18 0 0	,,	...	...	
154	21st July 1885 ...	47 of 1885	Sind-Pishin ...	100	,, ...	Between ...	,, Warren, complete ...	8	83	9	2	16	471	618-9	900 7 7	Span	25	K.	
							Wrought-iron Girderwork ...	...	83	0	2	9	...	...	10 15 0	Ton	...	...	
							Bolts and nuts	...	0	4	2	7	...	...	17 5 0	,,	...	...	
							Service bolts	...	0	4	2	0	...	...	17 5 0	,,	...	...	
171	22nd December ...	36 of 1885	Sind-Sagar ...	100	,, ...	,, ...	,, Triangulated, complete ...	2	87	3	0	12	471	638-9	875 3 6	Span	24	K.	As per invoice.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ..	104*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	1	63	2	0	2	500	587	790 7 3	Span	25	C.	*Is the total length.
158	17th September 1885 ...	31 of 1885	Eastern Bengal ...	116	5′ 6″ ...	Between ...	Girders, Plate, complete, curved for double line of rails.	2	72	18	3	23	548	‡	793 6 0	Span†	Not yet received.		† Bearing girders not included. ‡ Drawing not received from India Office.
							Bearing girders	4	5	2	3	2	...	...	55 17 7	Two	24	C.	
136	7th January 1885 ...	37 of 1884	Rajputana-Malwa	§131′-2″	Metre ...	Upper ...	Girders, Whipple Murphy, complete	3	66 (Exclusive bolts.)	5	2 of service	8	494-5	555-7	1,041 6 8	Span	Not known		Invoice and Tonnage and Freight account not received.
							Steel girder work in girders and roadway.	...	63	8	2	0	...	...	15 10 0	Ton	...	...	§ This is the total length.
							Steel in rollers	...	0	5	2	0	...	...	30 0 0	,,	...	...	
							Cast-iron in bed plates, saddle and knuckle plates.	...	2	6	3	0	...	...	12 0 0	,,	...	...	
							Wrought-iron in roller frames...	...	0	1	3	0	...	...	25 0 0	,,	...	...	
							Bolts, nuts and washers	...	0	3	0	8	...	...	24 0 0	,,	...	...	
							Service bolts, &c.		Not known.						18 0 0	,,	...	...	

CLASS A.—IRON BRIDGR-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
													A.	A.	£ s. d.		s.		
140	3rd February 1885 ...	78 of 1885	Assam-Behar ...	150	Metre ...	Between ...	Girders, Triangulated, complete ...	14	96	9	2	10	204-5	590-2	1,135 14 5	Span	25	C.	Details not given in the Invoice.
							Wrought-iron girderwork and forgings	...	...	...	...	...	...	...	12 0 0	Ton			
							Steel	...	...	...	...	...	...	...	30 0 0	,,			
							Bolts nuts, washers and service bolts	...	...	...	...	...	...	...	18 0 0	,,			
152	10th June 1885 ...	47 of 1885	Sind-Pishin ...	150	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	150	15	2	20	472-3	603-5	1,717 16 11	Span	17	K.	
							Wrought-iron girderwork ...	...	145	3	0	5	...	...	11 5 0	Ton			
							Forgings	...	0	5	3	0	...	...	25 0 0	,,			
							Cast iron work	...	4	0	2	14	...	...	12 0 0	,,			
							Steel rollers	...	0	10	3	0	...	...	25 0 0	,,			
							Bolts and nuts	...	0	8	2	0	...	...	24 0 0	,,			
							Service bolts	...	0	7	0	1	...	...	18 0 0	,,			
162	12th October 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	170	5′ 6″ ...	Between ...	Girders, Whipple Murphy, complete	6	164	9	0	23	572-3	...	1,994 10 9	Span	...	...	Girder not yet received.
							Steel work in girders, bracings, curbs, &c.	...	...	...	...	...	...	...	12 0 0	Ton			
							Steel in corrugated Floor Plates	...	...	...	...	...	...	...	12 0 0	,,			
							Steel in rollers	...	...	...	...	...	...	...	34 10 0	,,			
							Cast iron in bed plates, saddle and knuckle plates.	...	...	...	...	...	...	...	9 10 0	,,			
							Wrought-iron in roller frames	...	...	...	...	...	...	...	18 0 0	,,			
							Bolts, nuts, washers and coach screw	...	...	...	...	...	...	...	16 0 0	,,			
							Service bolts, &c. ...	...	...	...	...	...	...	...	14 0 0	,,			

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
163	21st October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	Between ...	Girders, Triangulated, complete ...	4	312	11	3	14	A 575-7	A. 626-9 and photo.	£ s. d. 3,990 15 6	Span	s. 19-6	C.	
							Subsequently paid to the contractors for riveting flange plates to booms.	...	...	...	...	...	...	...	49 10 0	,,			
															4,040 5 6				
164	23rd October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	,, ...	,, Triangulated, complete	4	314	5	3	20	575-7	Photos.	3,946 4 5	Span	17	C.	
							Steel in girders bracings, loose rivets, &c.	...	206	17	1	0	...		12 15 0	Ton	...		
							Steel in connecting plates ...	...	1	7	2	0	...	...	12 15 0	,,	...		
							Wrought-iron in floor plates, toes, overhead, cross and rail girders diaphragms, &c., angle bar, rail guard, cantilevers, &c. ...	...	85	17	0	7	...	...	11 15 0	,,	...		
							Steel in rollers and knuckles ...	...	2	18	1	0	...	...	22 10 0	,,	...		
							Cast-iron in bed, saddle and knuckle plates.	...	13	7	2	0	...	...	11 0 0	,,	...		
							Wrought-iron in roller frames ...	...	0	11	3	0	...	...	20 10 0	,,	...		
							Bolts, nuts, &c.	...	1	0	2	27	...	...	18 0 0	,,	...		
							Service bits	...	2	5	3	14	...	...	17 0 0	,,	...		
146	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″	Between ...	Steel and iron work for two cantilevers each 310′ long.	...	2,876	16	0	0	437-55	Photos.	98,806 9 5	Total	Contract not yet completed.		The Central girder span (of 200 feet) connecting these two cantilevers is not included in this contract. Separate contract will be let for this span.
							The weights of the steel and iron work in the different parts of each cantilever are as follow :—												
							Summary of Bukkur Cantilever.												
							No. I Struts (steel)	...	17	5	0	10							For detailed rates per ton, see Appendix A.
							No. II Struts (steel)	...	44	3	3	12							
							No. III Struts (steel)	...	220	1	0	12							
							No. III Struts (wrought-iron) ...	...	1	16	2	16							

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
							Summary of Bukkur Cantilever—contd.		Tons.	cwt.	qrs.	lbs.	A.	A.	£ s. d.		s.		
146—contd.	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	Large pillars (steel)	...	166	11	1	12							For detailed rates per ton, see Appendix A.
							Large pillars (wrought-iron) ...	...	1	16	2	16							
							Small pillars (steel)	...	6	16	1	17							
							No. IV Struts (steel)	...	7	5	2	26							
							Inclined tie (steel)	...	76	18	1	14							
							Horizontal tie (steel)	...	76	14	2	24							
							Connections at ends of ditto ...	...	9	10	0	17							
							Secondary tie (steel)	...	6	6	0	10							
							Guys (steel)	...	200	5	1	22							
							No. I supports for Guys (steel) ...	...	6	9	0	24							
							Foundation bolts and washers (wrought-iron).	...	0	14	0	15							
							No. II supports for Guys (steel) ...	...	6	8	0	10							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							No. III supports for Guys (steel)	...	13	1	2	16							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							Anchors (steel)	...	29	15	2	18							
							Booms (steel)	...	147	19	2	14							
							No. I Vertical and Raker (steel) ...	...	4	6	0	17							
							No. II Vertical (steel)	...	3	18	2	15							
							No. III Vertical and Raker (steel)	...	14	6	1								
							No. II Vertical and Raker (steel)	...	58	12	0	6							

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
146—*contd.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between	*Summary of Bukkur Cantilever—concld.*						A.	A.	£ s. d.		s.		
							Large bed plates (steel)		49	15	2	10							For detailed rates per ton, see Appendix A.
							Foundation bolts and washer plates (wrought-iron). ...		5	9	0	22							
							Small bed plates (steel)		3	17	0	24							
							Foundation bolts and washers (wrought iron). ...		0	7	0	14							
							Trimmers (steel)		73	11	1	14							
							Bed plates and bolts for trimmers (wrought-iron). ...		0	2	3	2							
							Trusses under trimmers (steel)		12	15	0	20							
							Distance girders (steel)		19	18	2	13							
							Wind ties (steel)		19	6	2	5							
							Cross girders (steel)		30	15	2	4							
							Roadway—												
							Corrugated plates (steel)		30	3	0	5							
							Road beams curbs, &c., (steel) ...		43	0	2	22							
							Bolts, screws &c. (wrought-iron) ...		2	3	0	6							
							Hand railing (steel)		10	2	0	18							
							Bolts, screws, &c., (wrought-iron) ...		0	11	2	8							
							Hand rail standards (steel)		6	18	1	26							
							Total steel and iron in cantilever on Bukkur side of Pass. ...		1,430	5	1	9							
							NOTE—This total is made up of—												
							Steel		1,417	0	0	16							
							Wrought-iron		13	5	0	21							
							...		1,430	5	1	9							

INDIAN STATE RAILWAYS.

CLASS A—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office. Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
146—*concld.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	*Summary of Haji Motu Cantilever.*						A.	A.	£ s. d.		s.		
							Steel as in Bukkur Cantilever ...	...	1,417	0	0	16							For detailed rates per ton, see Appendix A.
							Iron as in ditto	...	13	5	0	21							
							Additional Steel in Guy of Haji Motu Cantilever.	...	16	5	1	10							
							Total steel and iron in Cantilever on Haji Motu side of Pass.	...	1,446	10	2	19							
							Total quantities in two cantilevers—												
							Total steel and iron in Bukkur Cantilever.	...	1,430	5	1	9							
							Total steel and iron in Haji Motu Cantilever.	...	1,446	10	2	19							
							Grand Total ...	...	2,876	16	0	0							

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK,

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date.	Number of Indent.	For what railway indented for.	Detail.	Quantity Contracted for. Number.	Quantity Contracted for. Weight. Tons.	cwt.	qrs.	lbs.	Number of India Office Drawings. Original.	Completion.	F. O. B. in England. Contract Rate. Amount. £ s. d.	Unit.	Entire Sea Freight per ton to Port. Rate. s.	Port.	Remarks.
151	30th April 1885	108 of 1884	Rajputana-Malwa, Metre gauge.	Hook bolts 8½" long × ¾" diameter screwed for lengths of three inches.	...	2	0	0	0	...	...	15 17 6	Ton	...	B.	
				Ditto screwed for lengths of 4 inches	...	1	0	0	0	...	...	15 17 6	,,	...	,,	
161	12th October 1885	39 of 1885	Indus Valley, 5′ 6″ gauge	Hook bolts 9½" × ¾" with nuts and washers.	2,000	2	5	1	3	...	...	17 0 0	,,	17-6	K.	
159	17th September 1885	31 of 1885	Eastern Bengal, 5′ 6″ gauge	Piers, wrought iron, for bridges, broad gauge :—												
				Cast iron cylinders, top lengths marked A.	14	4	19	0	0	551	612	5 15 0	Ton	20	C.	
				Ditto for ditto ...	14	3	13	0	0	...	...	5 15 0	,,	,,	,,	
				Cast iron cylinders intermediate lengths marked C.	56	10	0	0	0	...	...	5 15 0	,,	,,	,,	

NOTE.—B.—Bombay; C.—Calcutta; K.—Karachi; M.—Madras; R.—Rangoon.
For rates for landing State Railway Stores, see Director General of Railways' Circular No. 22, dated 16th December 1885.

G. F. WILSON, Captain, R.E.,
for Director General.

Accompaniment to Director General of Railways' Circular No. 12 of 1886.

Rate list class A—Iron Bridge-work.

Appendix A.

(Detailed rates of Iron and Steel work in Sukkur Bridge Cantilevers. Contract No. A. 146.)

Description of Work.	Rate Delivered free along side in the Port of London. £ s. d.	Port of Liverpool or Birkenhead. £ s. d.
For all Steelwork in Booms ... ... per ton	34 5 0	35 15 0
Ditto in Inclined Ties and Bracing ... ... ,,	39 5 0	40 15 0
Ditto in Horizontal Ties and Bracing ... ... ,,	39 5 0	
Ditto in Guys and Bracing ... ... ,,	24 5 0	25 15 0
Ditto in Anchors ... ... ,,	24 5 0	
Ditto in Bed Plates ... ... ,,	30 0 0	31 10 0
Ditto in Pillars and No. 3 Struts ... ... ,,	39 5 0	40 15 0
Ditto in No. 2 Struts and Bracing ... ... ,,	39 5 0	
Ditto in No. 1 Struts ... ... ,,	39 5 0	
Ditto in Verticals and Rakers ... ... ,,	39 5 0	
Ditto in Trimmers ... ... ,,	34 5 0	35 15 0
Ditto in Cross and Distance Girders ... ... ,,		
Ditto in Road Beams and Curbs ... ... ,,		
Ditto in Currugated Floor Plates ... ... ,,	19 0 0	20 10 0
Ditto in other portions ... ... ,,	34 5 0	35 15 0
For all Plate Ironwork ... ... ,,	24 5 0	25 15 0
For all Iron Bars ... ... ,,	24 5 0	25 15 0
For all Wrought Iron in Tubes ... ... ,,	39 5 0	40 15 0
For all Bolts, Nuts, and Washers ... ... ,,	25 0 0	26 10 0
For all Coach and Wood Screws ... ... ,,	35 0 0	36 10 0
For Spike Nails ... ... ,,	35 0 0	
For Service Bolts, &c. ... ... ,,	18 0 0	19 0 0

Note.—All the above prices include Rivets and Spare Rivets.

G. C. B. Press, Simla.—No. 376 D. G. R.—1-12-86—2,009.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
138	3rd February 1885 ...	54 of 1884	Assam-Behar ...	...	Metre ...	...	Curbs, wrought-iron, for wells, 12′ 6″ diameter.	52	3	19	0	1	492	569	46 3 1	Each	15-6	C.	
139	3rd February 1885 ...	54 of 1884	Ditto ...	...	,, ...	...	Ditto, 15′ diameter	50	5	11	0	19	493	559	63 2 3	,,	12-9	C.	
							Wrought-iron work ...	...	4	16	2	5	...	...	10 12 6	Ton	...	...	
							Bond rings and covers ...	...	0	6	3	4	...	...	11 14 6	,,	...	...	
							Vertical tie rods and bolts...	...	0	7	0	10	...	...	20 12 6	,,	...	...	
							Service bolts and nuts ...	...	0	0	3	0	...	...	14 7 0	,,	...	...	
160	8th October 1885 ...	71 of 1885	Sind-Sagar ...	...	5′ 6″ ...	...	Curbs, wrought-iron, for wells, 12′ 6″ diameter.	50	3	17	2	10	492	594	64 0 9	Each set	18	K.	
							Bond rings for ditto	100											
							Lower vertical tie rods with bolts	300											
							Upper ditto	300											
157	2nd September 1885 ...	43 of 1885	Ferozepore Bridge Works.	...	,, ...	...	Curbs, wrought-iron for wells; spare parts of—												
							Bond rings 10′ radius	57	36	9	2	6	...	593	16 10 0 or 601 17 0	Ton Total	18	K.	
							Tie rods each 14′ long ...	456	24	16	0	1	...	...	13 10 0 or 334 16 1	Ton Total			
							Ditto 9′ long	228											
148	4th April 1885 ...	Tel. dated 3rd January 1885.	Jhansi-Manickpur	6	5′ 6″ ...	Upper ...	Girders, Plate	10	0	15	2	10	514	565	7 12 10	Span	20	C.	
							Girderwork	...	0	14	3	4	...	...	9 5 0	Ton	...	...	
							Hook bolts	...	0	0	3	6	...	...	20 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	6	5′ 6″ ...	Upper ...	Girders, Plate	37	0	15	2	0	514	622	£ s. d. 7 2 0	Span	s. 16	K.	
							Girderwork	...	0	14	3	0	...	...	8 15 0	Ton	...	...	
							Hook bolts and washers ...	...	0	0	2	6	...	...	18 0 0	,,	...	...	
							Service bolts and washers...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
155	7th August 1885 ...	2 P. R. of 1885.	Lucknow-Sitapur	10	Metre ...	Upper ...	Girders, Plate, complete ...	20	0	18	3	13	342	410	8 14 8	Span	18	B.	
							Wrought-iron Girderwork ...	...	0	17	2	0	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, service bolts, &c.	...	0	1	1	13	...	...	12 10 0	,,	...	...	
152	10th June 1885 ...	47 of 1885	Sind-Pishin ...	10	5′6″ ...	Upper ...	Girders, Plate, complete ...	25	1	4	0	14	529	584	12 2 8	Span	21	K.	
							Wrought-iron Girderwork ...	...	1	3	3	21	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	0	21	...	...	18 0 0	,,	...	...	
166	26th November 1885 ...	40 of 1885	Ferozepore Bridge Works.	10	,, ...	,, ...	,, Plate, complete ...	3	1	4	0	14	529	615	12 5 0	Span	...	K.	
135	6th January 1885 ...	54 and 56 of 1884.	Assam-Behar and Tirhoot.	12	Metre ...	Upper ...	Girders, Plate, complete ...	73	1	5	0	6	337	525	12 17 6	Span	...	...	
							Wrought-iron Girderwork ...	...	1	3	2	4	...	...	9 16 0	Ton	...	...	
							Bolts	...	0	1	1	9	...	...	18 3 0	,,	...	...	
							Service Bolts	...	0	0	0	21	...	...	14 3 0	,,	...	...	
41	3rd February 1885 ...	77 of 1884	Burma ...	12	,, ...	,, ...	,, Plate, complete ...	19	1	4	2	24	337	541	11 19 2	Span	25	R.	
							Wrought-iron Girderwork ...	...	1	3	0	22	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	2	2	...	...	20 0 0	,,	...	...	

CLASS A.—IRON BRIDGE-WORK.

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	No. of spans contracted for.	Weight of each spans. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
147	31st March 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	12	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	15	1	8	3	25	513	546	£ s. d. 13 18 11	Span	s. 16	B.	
							Girderwork	...	1	7	3	23	...	...	9 5 0	Ton	...	...	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	12	,, ...	,, ...	Hookbolts, &c.	...	0	1	0	2	...	...	20 0 0	,,	...	...	
							,, Plate, complete	50	1	9	3	0	513	623	13 8 6	Span	16	K.	
							Girderwork	...	1	8	3	6	...	...	8 15 0	Ton	...	...	
							Hookbolts and washers ...	...	0	0	3	0	...	...	18 0 0	,,	...	...	
							Service bolts and washers ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
141	3rd February 1885 ...	77 of 1884	Burma ...	14	Metre ...	Upper ...	Girders, Plate, complete ...	4	1	10	1	7	413	542	14 12 9	Span	25	R.	
							Wrought-iron Girderwork ...	...	1	8	2	...	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	3	7	...	...	20 0 0	,,	...	...	
135	6th January 1885 ...	54 of 1884	Assam-Behar ...	20	Metre ...	Upper ...	Girders, Plate, complete ...	112	2	10	3	1	336	536	27 6 1	Span	17-6	C.	
							Wrought-iron Girderwork ...	...	2	8	1	27	...	...	10 8 0	Ton	...	...	
							Hookbolts	...	0	2	0	9	...	...	18 15 0	,,	...	...	
							Service bolts	...	0	0	0	21	...	...	14 15 0	,,	...	...	
140	3rd February 1885 ...	78 of 1884	Assam-Behar ...	20	,, ...	,, ...	,, Plate, complete	5	2	10	1	20	336	540	30 18 11	Span	15-6	C.	
141	3rd February 1885 ...	77 of 1884	Burma ...	20	,, ...	,, ...	,, Plate, complete	52	2	9	1	7	336	543	23 16 6	,,	25	R.	
							Wrought-iron Girderwork ...	...	2	7	3	9	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	1	26	...	...	20 0 0	,,	...	...	
155	7th August 1885 ...	2PR. of 1885	Lucknow-Sitapur	20	,, ...	,, ...	,, Plate, complete	12	2	10	1	20	336	* Photo.	23 18 7	Span	18	B.	* Drawing not received from the India Office.
							Wrought-iron Girderwork ...	...	2	8	0	20	...	...	9 7 0	Ton	...	...	
							Bolts, nuts, service bolts, &c.	...	0	2	1	0	...	...	12 10 0	,,	...	...	

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of Spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £. s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	20	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	3	8	3	15	387	533	37 17 9	Span	20	K.	
147	31st March 1885 ...	Ditto ...	Ditto ...	20	,, ...	,, ...	Ditto	4	3	4	0	14	387	547	31 5 1	,,	20	K.	
							Girder work	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
148	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manikpur	20	,, ...	,, ...	,, Plate, complete	33	3	4	0	14	387	566	31 5 1	Span	24	K.	
							Girderwork	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah	20	,, ...	,, ...	,, Plate, complete	1	3	5	1	21	387	613	32 5 4	Span	17	B.	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	20	,, ...	,, ...	,, Ditto	47	3	4	0	14	387	624	29 2 0	Span	16	K.	
							Girderwork	...	3	2	2	16	...	...	8 17 6	Ton	...	...	
							Hookbolts and washers ...	...	0	1	1	4	...	...	18 0 0	,,	...	...	
							Service bolts and washers. ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30	5′ 6″ ...	Between ...	Girders, Plate, complete ...	10	1	17	0	1	449 & 500	562 and photo.	24 2 9	Span	17-6	C.	Of these 10 girders, are end and 6 intermediate.
							Wrought-iron Girderwork ...	...	1	16	3	8	...	...	13 0 0	Ton	...	...	
							Service bolts and washers ...	...	0	0	0	21	...	...	21 0 0	,,	...	...	
158	17th September 1885 ...	31 of 1885	Eastern Bengal ...	30	,, ...	,, ...	,, Plate, complete ...	2	8	5	0	10	549	621	83 11 6	Span	24	C.	The weight and cost of this span have been taken from the Invoice of S. S. *Brindisi*, which sailed on 23rd March 1886.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30*	,, ...	,, ...	,, Plate, complete	1	2	8	2	14	497	563	31 17 0	,,	17-6	C.	* 35′ is the total length.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway. indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £. s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	37′ 6″*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	4	2	10	3	14	498	564	33 1 5	Span	17-6	C.	* 37′ 6″ is the total length.
135	6th January 1885 ...	54 of 1884	Assam-Behar ...	40	Metre ...	Upper ...	Girders, Plate, complete ...	31	7	18	3	1	341	558	82 6 7	Span	18	C.	
							Wrought-iron girderwork ...	...	7	14	0	20	...	...	10 3 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	14 10 0	,,	...	...	
							Hookbolts	...	0	3	3	9	...	...	18 10 0	,,	...	...	
145	2nd March 1885 ...	31 of 1884	Tirhoot ...	40	,, ...	,, ...	,, Plate, complete	7	7	17	3	22	341	545	93 8 10	Span	21	C.	
							Wrought-iron girderwork ...	...	7	13	1	27	...	...	11 10 0	Ton	...	...	
							Service bolts	...	0	0	3	2	...	...	20 0 0	,,	...	...	
							Hookbolts	...	0	3	2	21	...	...	24 0 0	,,	...	...	
153	14th July 1885 ...	29 of 1885	Cawnpore-Achnera	40	,, ...	,, ..	,, Plate, complete	3	8	0	0	0	341	606	83 13 2	Span	18	B.	
155	7th August 1885 ...	2 P. R. of 1885.	Lucknow-Sitapur	40	,, ...	,, ...	,, Plate, complete	8	8	0	0	9	341	607	76 14 7	Span	17-6	B.	
							Wrought-iron girderwork ...	...	7	15	2	0	...	...	9 10 0	Ton	...	...	
							,, Bolts, nuts, service bolts, &c....	...	0	4	2	9	...	...	12 10 0	,,	...	...	
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Kutni-Umaria Section.	40	5′ 6″ ...	,, ...	Girders, Plate, complete ...	12	9	18	3	20	388	534	109 0 4	Span	{ 20 / 17	K. / B.	
143	25th February 1885 ...	4 of 1885	Sind-Pishin ...	40	,, ...	,, ...	,, Plate, complete	12	9	11	3	21	388	544	110 6 9	,,	18	K.	

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date.	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount. £ s. d.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate. s.	Port.	Remarks.
149	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	40	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	76	9	10	3	12	388	581	96 9 4	Span	22	K.	
							Girderwork	...	9	7	2	24	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	15 15 0	,,	...	...	
							Hookbolts, &c.	...	0	2	1	16	...	...	16 15 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah ...	40	,, ...	...	,, Plate, complete	3	10	1	0	10	388	614	110 12 0	Span	17	B.	
							Girderwork	...	9	16	0	18	...	...	11 0 0	Ton	...	...	
							Bolts and nuts	...	0	2	1	20	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	2	2	0	...	...	18 0 0	,,	...	...	
170	22nd December 1885 ...	36 of 1885	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	30	9	9	0	14	388	625	85 17 6	span	21-3	K.	
							Main girders, covers and bracings.	...	9	3	2	3	...	...	9 0 0	ton	...	...	
							Rivets	...	0	2	1	23	...	...	9 0 0	,,	...	...	
							Service bolts, hookbolts, and washers.	...	0	3	0	16	...	...	13 18 0	,,	...	...	
171	22nd December 1885 ...	,, ...	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	24	9	7	0	11	388	630	92 6 5	Span	32	K	
							Wrought-iron girderwork ...	...	9	4	0	17	...	...	9 15 0	Ton	...	...	
							Hookbolts, &c.	...	0	2	1	0	...	...	18 0 0	,,	...	...	
							Service bolts	...	0	0	2	22	...	...	15 0 0	,,	...	...	
155	7th August 1885 ...	2P.R. of 1885	Lucknow-Sitapur	60	Metre ...	Upper ...	Girders, Warren, complete ...	8	17	12	0	14	419	608-9	178 19 6	Span	23-1	B.	
							Wrought-iron girderwork ...	...	16	19	0	0	...	...	10 1 6	Ton	...	...	
							Bolts, nuts, service bolts, &c. ...	...	0	13	0	14	...	...	12 0 10	,,	...	...	
156	Ditto ...	63 of 1885	Cawnpore-Achnera	60	,, ...	,, ...	,, Warren, complete ...	6	18	9	2	2	419	610-1	180 9 3	Span	20	B.	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount. £ s. d.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section	60	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	23	7	3	22	389	535	257 7 5	Span	14-8	B.	
169	9th December 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	60	,, ...	,, ...	ditto	2	40	3	11	10	586	643	425 10 0	,,	20	B.	
142	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	80	5′ 6″ ...	Upper ...	Girders Plate complete ...	1	38	5	0	6	469	570-1	477 7 3	Span	27-6	B.	
							Iron-work	...	36	18	1	6	...	...	12 3 6	Ton	...	...	
							Bolts	...	1	6	3	0	...	...	20 17 6	,,	...	...	
168	2nd December 1885 ...	61 of 1885	Bilaspur-Etawah ...	80	...	Between ...	,, Plate, complete	1	61	13	1	3	585	616-7	707 16 6	Span	20	B.	
							Wrought-iron girderwork ...	...	61	5	3	4	...	...	11 10 0	Ton	...	...	
							Bolts, nuts and washers ...	...	0	4	1	27	...	...	22 0 0	,,	...	...	
							Service bolts, &c. ...	...	0	3	0	0	...	...	18 0 0	,,	...	...	
142	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	100	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	83	15	3	0	471	618 560-1	1,009 9 5	Span	17	B.	
							Wrought-iron girderwork ...	...	83	6	2	21	...	...	12 0 0	Ton	...	...	
							Bolts and nuts	...	0	9	0	7	...	...	20 17 6	,,	...	...	
148	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	100	5′ 6″ ...	Upper ...	,, Warren, complete ...	10	66	6	2	20	515	601-2	701 4 11	Span	21	K.	
							Girderwork	...	65	16	2	21	...	...	10 10 0	Ton	...	...	
							Bolts and nuts	...	0	5	0	2	...	...	20 0 0	,,	...	...	
							Service bolts	...	0	4	3	25	...	...	20 0 0	,,	...	...	

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CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
150	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manickpur	100	5′ 6″ ...	Upper ...	Girders, Warren, complete ...	32	67	0	0	14	515	567-8	758 3 4	Span	21	K.	
							Girderwork	...	66	11	2	18	...	...	11 5 0	Ton	...	...	
							Bolts and nuts	...	0	4	3	24	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	3	2	0	...	...	18 0 0	,,	...	...	
154	21st July 1885 ...	47 of 1885	Sind-Pishin ...	100	,, ...	Between ...	,, Warren, complete ...	8	83	9	2	16	471	618-9	900 7 7	Span	25	K.	
							Wrought-iron Girderwork ...	...	83	0	2	9	...	...	10 15 0	Ton	...	...	
							Bolts and nuts	...	0	4	2	7	...	...	17 5 0	,,	...	...	
							Service bolts	...	0	4	2	0	...	...	17 5 0	,,	...	...	
171	22nd December ...	36 of 1885	Sind-Sagar ...	100	,, ...	,, ...	,, Triangulated, complete ...	2	87	3	0	12	471	638-9	875 3 6	Span	24	K.	As per invoice.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ..	104*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	1	63	2	0	2	500	587	700 7 3	Span	25	C.	*Is the total length.
158	17th September 1885 ...	31 of 1885	Eastern Bengal ...	116	5′ 6″ ...	Between ...	Girders, Plate, complete, curved for double line of rails.	2	72	18	3	23	548	‡	793 6 0	Span†	Not yet received.		† Bearing girders not included. ‡ Drawing not received from India Office.
							Bearing girders	4	5	2	3	2	...	...	55 17 7	Two	24	C.	
136	7th January 1885 ...	37 of 1884	Rajputana-Malwa	§131′-2″	Metre ...	Upper ...	Girders, Whipple Murphy, complete	3	66 (Exclusive bolts.)	5	2 of service	8	494-5	555-7	1,041 6 8	Span	Not known		Invoice and Tonnage and Freight account not received.
							Steel girder work in girders and roadway. ...		63	8	2	0	...	...	15 10 0	Ton	...	...	§ This is the total length.
							Steel in rollers	...	0	5	2	0	...	...	30 0 0	,,	...	...	
							Cast-iron in bed plates, saddle and knuckle plates. ...		2	6	3	0	...	...	12 0 0	,,	...	...	
							Wrought-iron in roller frames... ...		0	1	3	0	...	...	25 0 0	,,	...	...	
							Bolts, nuts and washers		0	3	0	8	...	...	24 0 0	,,	...	...	
							Service bolts, &c.		Not known.						18 0 0	,,	...	...	

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CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
140	3rd February 1885 ...	78 of 1885	Assam-Behar ...	150	Metre ...	Between ...	Girders, Triangulated, complete ...	14	96	9	2	10	204-5	590-2	1,135 14 5	Span	25	C.	Details not given in the Invoice.
							Wrought-iron girderwork and forgings ...		...	...	...	...	...	...	12 0 0	Ton			
							Steel	...	...	...	...	...	...	...	30 0 0	,,			
							Bolts nuts, washers and service bolts ...		...	...	...	...	...	...	18 0 0	,,			
152	10th June 1885 ...	47 of 1885	Sind-Pishin ...	150	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	150	15	2	20	472-3	603-5	1,717 16 11	Span	17	K.	
							Wrought-iron girderwork ...	...	145	3	0	5	...	...	11 5 0	Ton			
							Forgings	...	0	5	3	0	...	...	25 0 0	,,			
							Cast iron work	...	4	0	2	14	...	...	12 0 0	,,			
							Steel rollers	...	0	10	3	0	...	...	25 0 0	,,			
							Bolts and nuts	...	0	8	2	0	...	...	24 0 0	,,			
							Service bolts	...	0	7	0	1	...	...	18 0 0	,,			
162	12th October 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	170	5′ 6″ ...	Between ...	Girders, Whipple Murphy, complete	6	164	9	0	23	572-3	...	1,994 10 9	Span	...	...	Girder not yet received.
							Steel work in girders, bracings, curbs, &c. ...		...	...	...	...	...	...	12 0 0	Ton			
							Steel in corrugated Floor Plates ...		...	...	...	...	...	...	12 0 0	,,			
							Steel in rollers	...	...	...	...	...	...	...	34 10 0	,,			
							Cast iron in bed plates, saddle and knuckle plates. ...		...	...	...	...	...	...	9 10 0	,,			
							Wrought-iron in roller frames ...		...	...	...	...	...	...	18 0 0	,,			
							Bolts, nuts, washers and coach screw ...		...	...	...	...	...	...	16 0 0	,,			
							Service bolts, &c.		...	...	...	...	...	...	14 0 0	,,			

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CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
163	21st October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre	Between ...	Girders, Triangulated, complete ...	4	312	11	3	14	575-7	626-9 and photo.	£ s. d. 3,990 15 6	Span	s. 19-6	C.	
							Subsequently paid to the contractors for riveting flange plates to booms.	...	...	...	...	...	...	...	49 10 0	,,			
															4,040 5 6				
164	23rd October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	,, ...	,, Triangulated, complete... ...	4	314	5	3	20	575-7	Photos.	3,946 4 5	Span	17	C.	
							Steel in girders bracings, loose rivets, &c.	...	206	17	1	0	...		12 15 0	Ton	...		
							Steel in connecting plates ...	...	1	7	2	0	...		12 15 0	,,	...		
							Wrought-iron in floor plates, tees, overhead, cross and rail girders diaphragms, &c., angle bar, rail guard, cantilevers, &c. ...	...	85	17	0	7	...		11 15 0	,,	...		
							Steel in rollers and knuckles ...	...	2	18	1	0	...		22 10 0	,,	...		
							Cast-iron in bed, saddle and kunckle plates.	...	13	7	2	0	...		11 0 0	,,	...		
							Wrought-iron in roller frames ...	...	0	11	3	0	...		20 10 0	,,	...		
							Bolts, nuts, &c.	...	1	0	2	27	...		18 0 0	,,	...		
							Service bits	...	2	5	3	14	...		17 0 0	,,	...		
146	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″	Between ...	Steel and iron work for two cantilevers each 310′ long.	...	2,876	16	0	0	437-55	Photos.	98,806 9 5	Total	Contract not yet completed.		The Central girder span (of 200 feet) connecting these two cantilevers is not included in this contract. Separate contract will be let for this span.
							The weights of the steel and iron work in the different parts of each cantilever are as follow :—												
							Summary of Bukkur Cantilever.												For detailed rates per ton, see Appendix A.
							No. I Struts (steel)	...	17	5	0	10							
							No. II Struts (steel)	...	44	3	3	12							
							No. III Struts (steel)	...	220	1	0	12							
							No. III Struts (wrought-iron) ...	...	1	16	2	16							

CLASS A.—IRON BRIDGE-WORK.

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CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to Port. Rate.	Port.	Remarks.
							Summary of Bukkur Cantilever—contd.		Tons.	cwt.	qrs.	lbs.	A.	A.	£ s. d.		s.		
146—contd.	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	Large pillars (steel)	...	166	11	1	12							For detailed rates per ton, see Appendix A.
							Large pillars (wrought-iron) ...	...	1	16	2	16							
							Small pillars (steel)	...	6	16	1	17							
							No. IV Struts (steel)	...	7	5	2	26							
							Inclined tie (steel)	...	76	18	1	14							
							Horizontal tie (steel)	...	76	14	2	24							
							Connections at ends of ditto ...	...	9	10	0	17							
							Secondary tie (steel)	...	6	6	0	10							
							Guys (steel)	...	200	5	1	22							
							No. I supports for Guys (steel) ...	...	6	9	0	24							
							Foundation bolts and washers (wrought-iron).	...	0	14	0	15							
							No. II supports for Guys (steel) ...	...	6	8	0	10							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							No. III supports for Guys (steel)	...	13	1	2	16							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							Anchors (steel)	...	29	15	2	18							
							Booms (steel)	...	147	19	2	14							
							No. I Vertical and Raker (steel) ...	...	4	6	0	17							
							No. II Vertical (steel)	...	3	18	2	15							
							No. III Vertical and Raker (steel)	...	14	6	1								
							No. II Vertical and Raker (steel)	...	58	12	0	6							

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

CONTRACT. No. A.	CONTRACT. Date.	Number of indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span.				NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	Port.	Remarks.
							Summary of Bukkur Cantilever—concld.		Tons.	cwt.	qrs.	lbs.	A.	A.	£ s. d.		s.		
146—*contd.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between	Large bed plates (steel) ...	...	49	15	2	10							For detailed rates per ton, see Appendix A.
							Foundation bolts and washer plates (wrought-iron).	...	5	9	0	22							
							Small bed plates (steel) ...	...	3	17	0	24							
							Foundation bolts and washers (wrought iron).	...	0	7	0	14							
							Trimmers (steel)	...	73	11	1	14							
							Bed plates and bolts for trimmers (wrought-iron).	...	0	2	3	2							
							Trusses under trimmers (steel) ...	...	12	15	0	20							
							Distance girders (steel) ...	...	19	18	2	13							
							Wind ties (steel)	...	19	6	2	5							
							Cross girders (steel)	...	30	15	2	4							
							Roadway—												
							Corrugated plates (steel) ...	...	30	3	0	5							
							Road beams curbs, &c., (steel)	...	43	0	2	22							
							Bolts, screws &c. (wrought-iron)	...	2	3	0	6							
							Hand railing (steel)	...	10	2	0	18							
							Bolts, screws, &c., (wrought-iron)	...	0	11	2	8							
							Hand rail standards (steel) ...	...	6	18	1	26							
							Total steel and iron in cantilever on Bukkur side of Pass.	...	1,430	5	1	9							
							NOTE—This total is made up of—												
							Steel ...	...	1,417	0	0	16							
							Wrought-iron ...	...	13	5	0	21							
								...	1,430	5	1	9							

INDIAN STATE RAILWAYS.

CLASS A—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A—IRON BRIDGE-WORK.

CONTRACT. No. A.	CONTRACT. Date.	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span.				NUMBER OF INDIA OFFICE. DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	Port.	Remarks.
							Summary of Haji Motu Cantilever.		Tons	cwt.	qrs.	lbs.	A.	A.	£ s. d.		s.		
146—*concld.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	Steel as in Bukkur Cantilever ...	...	1,417	0	0	16							For detailed rates per ton, see Appendix A.
							Iron as in ditto	...	13	5	0	21							
							Additional Steel in Guy of Haji Motu Cantilever.	...	16	5	1	10							
							Total steel and iron in Cantilever on Haji Motu side of Pass.	...	1,446	10	2	19							
							Total quantities in two cantilevers—												
							Total steel and iron in Bukkur Cantilever.	...	1,430	5	1	9							
							Total steel and iron in Haji Motu Cantilever.	...	1,446	10	2	19							
							Grand Total ...	...	2,876	16	0	0							

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. Date.	Number of Indent.	For what railway indented for.	Detail.	QUANTITY CONTRACTED FOR. Number.	Weight. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	Port.	Remarks.
									A.	A.	£ s. d.		s.		
61 30th April 1885 ...	108 of 1884 ...	Rajputana-Malwa, Metre gauge.	Hook bolts 8½″ long × ⅞″ diameter screwed for lengths of three inches.	...	2	0	0	0	...	...	15 17 6	Ton	...	B.	
			Ditto screwed for lengths of 4 inches	...	1	0	0	0	...	..	15 17 6	,,	...	,,	
61 12th October 1885 ...	39 of 1885 ...	Indus Valley, 5′ 6″ gauge	Hook bolts 9½″ × ¾″ with nuts and washers.	2,000	2	5	1	3	...	...	17 0 0	,,	17-6	K.	
59 17th September 1885 ...	31 of 1885 ...	Eastern Bengal, 5′ 6″ gauge	Piers, wrought iron, for bridges, broad gauge :—												
			Cast iron cylinders, top lengths marked A.	14	4	19	0	0	551	612	5 15 0	Ton	20	C.	
			Covers for ditto ...	14	3	13	0	0	...	...	5 15 0	,,	,,	,,	
			Cast iron cylinders intermediate lengths marked C.	56	55	10	0	0	...	...	5 15 0	,,	,,	,,	

NOTE.—B.—Bombay; C.—Calcutta; K.—Karachi; M.—Madras; R.—Rangoon.
For rates for landing State Railway Stores, see Director General of Railways' Circular No. 22, dated 16th December 1885.

G. F. WILSON, Captain, R.E.,
for Director General.

Accompaniment to Director General of Railways' Circular No. 12 of 1886.

Rate list class A—Iron Bridge-work.

Appendix A.

(*Detailed rates of Iron and Steel work in Sukkur Bridge Cantilevers. Contract No. A. 146.*)

Description of Work.	RATE DELIVERED FREE ALONG SIDE IN THE Port of London.		Port of Liverpool or Birkenhead.	
	£ s. d.		£ s. d.	
For all Steelwork in Booms ... ... per ton	34 5 0		35 15 0	
Ditto in Inclined Ties and Bracing ... ... ,,	29 5 0	}	40 15 0	
Ditto in Horizontal Ties and Bracing ... ... ,,	39 5 0	}		
Ditto in Guys and Bracing ... ... ,,	24 5 0	}	25 15 0	
Ditto in Anchors ... ... ,,	24 5 0	}		
Ditto in Bed Plates ... ... ,,	30 0 0		31 10 0	
Ditto in Pillars and No. 3 Struts ... ... ,,	39 5 0			
Ditto in No. 2 Struts and Bracing ... ... ,,	39 5 0	}	40 15 0	
Ditto in No. 1 Struts ... ... ,,	39 5 0	}		
Ditto in Verticals and Rakers ... ... ,,	39 5 0	}		
Ditto in Trimmers ... ... ,,	34 5 0	}	35 15 0	
Ditto in Cross and Distance Girders ... ... ,,		}		
Ditto in Road Beams and Curbs ... ... ,,	19 0 0		20 10 0	
Ditto in Corrugated Floor Plates ... ... ,,	34 5 0		35 15 0	
Ditto in other portions ... ... ,,	24 5 0		25 15 0	
For all Plate Ironwork ... ... ,,	24 5 0		25 15 0	
For all Iron Bars ... ... ,,	39 5 0		40 15 0	
For all Wrought Iron in Tubes ... ... ,,	25 0 0		26 10 0	
For all Bolts, Nuts, and Washers ... ... ,,	35 0 0	}	36 10 0	
For all Coach and Wood Screws ... ... ,,	35 0 0	}		
For Spike Nails ... ... ,,	18 0 0		19 0 0	
For Service Bolts, &c. ... ... ,,				

Note.—All the above prices include Rivets and Spare Rivets.

C. E. B. Press, Simla.—No. 374 D. G. R.—1-12-86—2,000.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
167	1st December 1885	36 of 1885	Sind-Sagar	6	5′ 6″	Upper	Girders, Plate	37	0	15	2	0	514	622	£ 7 2 0	Span	16	K.	
							Girderwork		0	14	3	0			8 15 0	Ton			
							Hook bolts and washers		0	0	2	6			18 0 0	,,			
							Service bolts and washers		0	0	0	22			15 0 0	,,			
155	7th August 1885	2 P. R. of 1885.	Lucknow-Sitapur	10	Metre	Upper	Girders, Plate, complete	20	0	18	3	13	342	410	8 14 8	Span	18	B.	
							Wrought-iron Girderwork		0	17	2	0			9 0 0	Ton			
							Bolts, nuts, service bolts, &c.		0	1	1	13			12 10 0	,,			
152	10th June 1885	47 of 1885	Sind-Pishin	10	5′6″	Upper	Girders, Plate, complete	25	1	4	0	14	529	584	12 2 8	Span	21	K.	
							Wrought-iron Girderwork		1	3	3	21			10 0 0	Ton			
							Service bolts		0	0	0	21			18 0 0	,,			
166	26th November 1885	40 of 1885	Ferozepore Bridge Works.	10	,,	,,	,, Plate, complete	3	1	4	0	14	529	615	12 5 0	Span		K.	
135	6th January 1885	54 and 56 of 1884.	Assam-Behar and Tirhoot.	12	Metre	Upper	Girders, Plate, complete	73	1	5	0	6	337	525	12 17 6	Span			
							Wrought-iron Girderwork		1	3	2	4			9 16 0	Ton			
							Bolts		0	1	1	9			18 3 0	,,			
							Service Bolts		0	0	0	21			14 3 0	,,			
41	3rd February 1885	77 of 1884	Burma	12	,,	,,	,, Plate, complete	19	1	4	2	24	337	541	11 19 2	Span	25	R.	
							Wrought-iron Girderwork		1	3	0	22			9 0 0	Ton			
							Bolts, nuts, washers and service bolts.		0	1	2	2			20 0 0	,,			

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail	No. of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
147	31st March 1885	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	12	5′ 6″	Upper	Girders, Plate, complete	15	1	8	3	25	513	546	£ 13 18 11	Span	16	B.	
							Girderwork		1	7	3	23			9 5 0	Ton			
							Hookbolts, &c.		0	1	0	2			20 0 0	,,			
167	1st December 1885	36 of 1885	Sind-Sagar	12	,,	,,	,, Plate, complete	50	1	9	3	0	513	623	13 8 6	Span	16	K.	
							Girderwork		1	8	3	6			8 15 0	Ton			
							Hookbolts and washers		0	0	3	0			18 0 0	,,			
							Service bolts and washers		0	0	0	22			15 0 0	,,			
141	3rd February 1885	77 of 1884	Burma	14	Metre	Upper	Girders, Plate, complete	4	1	10	1	7	413	542	14 12 9	Span	25	R.	
							Wrought-iron Girderwork		1	8	2				9 0 0	Ton			
							Bolts, nuts, washers and service bolts.		0	1	3	7			20 0 0	,,			
135	6th January 1885	54 of 1884	Assam-Behar	20	Metre	Upper	Girders, Plate, complete	112	2	10	3	1	336	536	27 6 1	Span	17-6	C.	
							Wrought-iron Girderwork		2	8	1	27			10 8 0	Ton			
							Hookbolts		0	2	0	9			18 15 0	,,			
							Service bolts		0	0	0	21			14 15 0	,,			
140	3rd February 1885	78 of 1884	Assam-Behar	20	,,	,,	,, Plate, complete	5	2	10	1	20	336	540	30 18 11	Span	15-6	C.	
141	3rd February 1885	77 of 1884	Burma	20	,,	,,	,, Plate, complete	52	2	9	1	7	336	543	23 16 6	,,	25	R.	
							Wrought-iron Girderwork		2	7	3	9			9 0 0	Ton			
							Bolts, nuts, washers and service bolts.		0	1	1	26			20 0 0	,,			
155	7th August 1885	2PR. of 1885	Lucknow-Sitapur	20	,,	,,	,, Plate, complete	12	2	10	1	20	336	Photo.*	23 18 7	Span	18	B.	* Drawing not received from the India Office.
							Wrought-iron Girderwork		2	8	0	20			9 7 0	Ton			
							Bolts, nuts, service bolts, &c.		0	2	1	0			12 10 0	,,			

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of Spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	20	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	3	8	3	15	387	533	37 17 9	Span	20	K.	
147	31st March 1885 ...	Ditto ...	Ditto ...	20	,, ...	,, ...	Ditto	4	3	4	0	14	387	547	31 5 1	,,	20	K.	
							Girder work	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
148	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manikpur	20	,, ...	,, ...	,, Plate, complete	33	3	4	0	14	387	566	31 5 1	Span	24	K.	
							Girderwork	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah	20	,, ...	,, ...	,, Plate, complete	1	3	5	1	21	387	613	32 5 4	Span	17	B.	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	20	,, ...	,, ...	,, Ditto	47	3	4	0	14	387	624	29 2 0	Span	16	K.	
							Girderwork	...	3	2	2	16	...	...	8 17 6	Ton	...	...	
							Hookbolts and washers ...	...	0	1	1	4	...	...	18 0 0	,,	...	...	
							Service bolts and washers ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30	5′ 6″ ...	Between ...	Girders, Plate, complete ...	10	1	17	0	1	449 & 500	562 and photo.	24 2 9	Span	17-6	C.	Of these 10 girders, are end and 6 intermediate.
							Wrought-iron Girderwork ...	...	1	16	3	8	...	...	13 0 0	Ton	...	...	
							Service bolts and washers ...	...	0	0	0	21	...	...	21 0 0	,,	...	...	
138	17th September 1885 ...	31 of 1885	Eastern Bengal ...	30	,, ...	,, ...	,, Plate, complete	2	8	5	0	10	549	621	83 11 6	Span	24	C.	The weight and cost of this span have been taken from the Invoice of S. S. *Brindisi*, which sailed on 23rd March 1886.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30*	,, ...	,, ...	,, Plate, complete	1	2	8	2	14	497	563	31 17 0	,,	17-6	C.	*35′ is the total length.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	37′ 6″*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	4	2	10	3	14	498	564	33 1 5	Span	17-6	C.	* 37′ 6″ is the total length.
135	6th January 1885 ...	54 of 1884	Assam-Behar ...	40	Metre ...	Upper ...	Girders, Plate, complete ...	31	7	18	3	1	341	558	82 6 7	Span	18	C.	
							Wrought-iron girderwork ...	...	7	14	0	20	...	...	10 3 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	14 10 0	,,	...	...	
							Hookbolts	...	0	3	3	9	...	...	18 10 0	,,	...	...	
145	2nd March 1885 ...	31 of 1884	Tirhoot ...	40	,, ...	,, ...	,, Plate, complete	7	7	17	3	22	341	545	93 8 10	Span	21	C.	
							Wrought-iron girderwork ...	...	7	13	1	27	...	...	11 10 0	Ton	...	...	
							Service bolts	...	0	0	3	2	...	...	20 0 0	,,	...	...	
							Hookbolts	...	0	3	2	21	...	...	24 0 0	,,	...	...	
153	14th July 1885 ...	29 of 1885	Cawnpore-Achnera	40	,, ..	,, ..	,, Plate, complete	3	8	0	0	0	341	606	83 13 2	Span	18	B.	
155	7th August 1885 ...	2 P. R. of 1885.	Lucknow-Sitapur	40	,, ...	,, ...	,, Plate, complete	8	8	0	0	9	341	607	76 14 7	Span	17-6	B.	
							Wrought-iron girderwork ...	...	7	15	2	0	...	...	9 10 0	Ton	...	...	
							,, Bolts, nuts, service bolts, &c....	...	0	4	2	9	...	...	12 10 0	,,	...	...	
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Kutni-Umaria Section.	40	5′ 6″ ...	,, ...	Girders, Plate, complete ...	12	9	18	3	20	388	534	109 0 4	Span	20 17	K. B.	
143	25th February 1885 ...	4 of 1885	Sind-Pishin ...	40	,, ...	,, ...	,, Plate, complete	12	9	11	3	21	388	544	110 6 9	,,	18	K.	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
149	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	40	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	76	9	10	3	12	388	581	96 9 4	Span	22	K.	
							Girderwork	...	9	7	2	24	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	15 15 0	,,	...	...	
							Hookbolts, &c.	...	0	2	1	16	...	...	16 15 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah ...	40	,, ...	...	,, Plate, complete	3	10	1	0	10	388	614	110 12 0	Span	17	B.	
							Girderwork	...	9	16	0	18	...	...	11 0 0	Ton	...	...	
							Bolts and nuts	...	0	2	1	20	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	2	2	0	...	...	18 0 0	,,	...	...	
170	22nd December 1885 ...	36 of 1885	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	30	9	9	0	14	388	625	85 17 6	span	21-3	K.	
							Main girders, covers and bracings. ...	...	9	3	2	3	...	...	9 0 0	ton	...	...	
							Rivets	...	0	2	1	23	...	...	9 0 0	,,	...	...	
							Service bolts, hookbolts, and washers. ...	...	0	3	0	16	...	...	13 18 0	,,	...	...	
171	22nd December 1885 ...	,, ...	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	24	9	7	0	11	388	630	92 6 5	Span	32	K	
							Wrought-iron girderwork	...	9	4	0	17	...	...	9 15 0	Ton	...	...	
							Hookbolts, &c.	...	0	2	1	0	...	...	18 0 0	,,	...	...	
							Service bolts	...	0	0	2	22	...	...	15 0 0	,,	...	...	
155	7th August 1885 ...	2P. R. of 1885	Lucknow-Sitapur	60	Metre ...	Upper ...	Girders, Warren, complete ...	8	17	12	0	14	419	608-9	178 19 6	Span	23-1	B.	
							Wrought-iron girderwork	...	16	19	0	0	...	...	10 1 6	Ton	...	...	
							Bolts, nuts, service bolts, &c.	...	0	13	0	14	...	...	12 0 10	,,	...	...	
156	Ditto ...	63 of 1885	Cawnpore-Achnera	60	,, ...	,, ...	,, Warren, complete ...	6	18	9	2	2	419	610-1	180 9 3	Span	20	B.	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section	60	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	23	7	3	22	389	535	257 7 5	Span	14-8	B.	
169	9th December 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	60	,, ...	,, ...	ditto	2	40	3	11	10	586	643	425 10 0	,,	20	B.	
142	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	80	5′ 6″ ...	Upper ...	Girders Plate complete ...	1	38	5	0	6	469	570-1	477 7 3	Span	27-6	B.	
							Iron-work	...	36	18	1	6	...	...	12 3 6	Ton	...	...	
							Bolts	...	1	6	3	0	...	...	20 17 6	,,	...	...	
168	2nd December 1885 ...	61 of 1885	Bilaspur-Etawah ...	80	...	Between ...	,, Plate, complete	1	61	13	1	3	585	616-7	707 16 6	Span	20	B.	
							Wrought-iron girderwork ...	...	61	5	3	4	...	...	11 10 0	Ton	...	...	
							Bolts, nuts and washers ...	...	0	4	1	27	...	...	22 0 0	,,	...	...	
							Service bolts, &c. ...	...	0	3	0	0	...	...	18 0 0	,,	...	...	
142	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	100	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	83	15	3	0	471	618 560-1	1,009 9 5	Span	17	B.	
							Wrought-iron girderwork ...	...	83	6	2	21	...	...	12 0 0	Ton	...	...	
							Bolts and nuts	...	0	9	0	7	...	...	20 17 6	,,	...	...	
148	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	100	5′ 6″ ...	Upper ...	,, Warren, complete ...	10	66	6	2	20	515	601-2	701 4 11	Span	21	K.	
							Girderwork	...	65	16	2	21	...	...	10 10 0	Ton	...	...	
							Bolts and nuts	...	0	5	0	2	...	...	20 0 0	,,	...	...	
							Service bolts	...	0	4	3	25	...	...	20 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	No. of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
150	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manickpur	100	5′ 6″ ...	Upper ...	Girders, Warren, complete ...	32	67	0	0	14	515	567-8	758 3 4	Span	21	K.	
							Girderwork	...	66	11	2	18	...	...	11 5 0	Ton	...	...	
							Bolts and nuts	...	0	4	3	24	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	3	2	0	...	...	18 0 0	,,	...	...	
154	21st July 1885 ...	47 of 1885	Sind-Pishin ...	100	,, ...	Between ...	,, Warren, complete ...	8	83	9	2	16	471	618-9	900 7 7	Span	25	K.	
							Wrought-iron Girderwork ...	...	83	0	2	9	...	...	10 15 0	Ton	...	...	
							Bolts and nuts	...	0	4	2	7	...	...	17 5 0	,,	...	...	
							Service bolts	...	0	4	2	0	...	...	17 5 0	,,	...	...	
171	22nd December ...	36 of 1885	Sind-Sagar ...	100	,, ...	,, ...	,, Triangulated, complete ...	2	87	3	0	12	471	638-9	875 3 6	Span	24	K.	As per invoice.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ..	104*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	1	63	2	0	2	500	587	790 7 3	Span	25	C.	*Is the total length.
158	17th September 1885 ...	31 of 1885	Eastern Bengal ...	116	5′ 6″ ...	Between ...	Girders, Plate, complete, curved for double line of rails.	2	72	18	3	23	548	‡	793 6 0	Span†	Not received yet.		† Bearing girders not included. ‡ Drawing not received from India Office.
							Bearing girders	4	5	2	3	2	...	...	55 17 7	Two	24	C.	
136	7th January 1885 ...	37 of 1884	Rajputana-Malwa	§ 131′-2″	Metre ...	Upper ...	Girders, Whipple Murphy, complete	3	66 (Exclusive bolts.)	5	2 of service	8	494-5	555-7	1,041 6 8	Span	Not known		Invoice and Tonnage and Freight account not received. § This is the total length.
							Steel girder work in girders and roadway.	...	63	8	2	0	...	...	15 10 0	Ton	...	...	
							Steel in rollers	...	0	5	2	0	...	...	30 0 0	,,	...	...	
							Cast-iron in bed plates, saddle and knuckle plates.	...	2	6	3	0	...	...	12 0 0	,,	...	...	
							Wrought-iron in roller frames...	...	0	1	3	0	...	...	25 0 0	,,	...	...	
							Bolts, nuts and washers ...	...	0	3	0	8	...	...	24 0 0	,,	...	...	
							Service bolts, &c, ...		Not known.						18 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	No. of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
140	3rd February 1885 ...	78 of 1885	Assam-Behar ...	150	Metre ...	Between ...	Girders, Triangulated, complete ...	14	96	9	2	10	204-5	590-2	1,135 14 5	Span	25	C.	Details not given in the Invoice.
							Wrought-iron girderwork and forgings	...	...	...	...	...	...	...	12 0 0	Ton			
							Steel	...	...	...	...	...	...	...	30 0 0	,,			
							Bolts nuts, washers and service bolts	...	...	...	...	...	...	...	18 0 0	,,			
152	10th June 1885 ...	47 of 1885	Sind-Pishin ...	150	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	150	15	2	20	472-3	603-5	1,717 16 11	Span	17	K.	
							Wrought-iron girderwork ...	...	145	3	0	5	...	...	11 5 0	Ton			
							Forgings	...	0	5	3	0	...	...	25 0 0	,,			
							Cast iron work	...	4	0	2	14	...	...	12 0 0	,,			
							Steel rollers	...	0	10	3	0	...	...	25 0 0	,,			
							Bolts and nuts	...	0	8	2	0	...	...	24 0 0	,,			
							Service bolts	...	0	7	0	1	...	...	18 0 0	,,			
162	12th October 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	170	5′ 6″ ...	Between ...	Girders, Whipple Murphy, complete	6	164	9	0	23	572-3	...	1,994 10 9	Span	...	...	Girder not yet received.
							Steel work in girders, bracings, curbs, &c.	...	...	...	...	...	...	...	12 0 0	Ton			
							Steel in corrugated Floor Plates	...	...	...	...	...	...	...	12 0 0	,,			
							Steel in rollers	...	...	...	...	...	...	...	34 10 0	,,			
							Cast iron in bed plates, saddle and knuckle plates.	...	...	...	...	...	...	...	9 10 0	,,			
							Wrought-iron in roller frames	...	...	...	...	...	...	...	18 0 0	,,			
							Bolts, nuts, washers and coach screw	...	...	...	...	...	...	...	16 0 0	,,			
							Service bolts, &c. ...	...	...	...	...	...	...	...	14 0 0	,,			

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
63	21st October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	Between ...	Girders, Triangulated, complete ...	4	312	11	3	14	575-7	626-9 and photo.	£ s. d. 3,990 15 6	Span	s. 19-6	C.	
							Subsequently paid to the contractors for riveting flange plates to booms.	...	...	...	...	...	...	...	49 10 0	,,			
															4,040 5 6				
164	23rd October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	,, ...	,, Triangulated, complete	4	314	5	3	20	575-7	Photos.	3,946 4 5	Span	17	C.	
							Steel in girders bracings, loose rivets, &c.	...	206	17	1	0	...		12 15 0	Ton	...		
							Steel in connecting plates ...	...	1	7	2	0	...	...	12 15 0	,,	...		
							Wrought-iron in floor plates, tees, overhead, cross and rail girders diaphragms, &c., angle bar, rail guard, cantilevers, &c. ...	...	85	17	0	7	...	...	11 15 0	,,	...		
							Steel in rollers and knuckles ...	...	2	18	1	0	...	...	22 10 0	,,	...		
							Cast-iron in bed, saddle and kunckle plates.	...	13	7	2	0	...	...	11 0 0	,,	...		
							Wrought-iron in roller frames ...	...	0	11	3	0	...	...	20 10 0	,,	...		
							Bolts, nuts, &c.	...	1	0	2	27	...	...	18 0 0	,,	...		
							Service bits	...	2	5	3	14	...	...	17 0 0	,,	...		
146	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″	Between ...	Steel and iron work for two cantilevers each 310′ long.	...	2,876	16	0	0	437-55	Photos.	98,806 9 5	Total	Contract not yet completed.		The Central girder span (of 200 feet) connecting these two cantilevers is not included in this contract. Separate contract will be let for this span.
							The weights of the steel and iron work in the different parts of each cantilever are as follow :—												
							Summary of Bukkur Cantilever.												For detailed rates per ton, see Appendix A.
							No. I Struts (steel)	...	17	5	0	10							
							No. II Struts (steel)	...	44	3	3	12							
							No. III Struts (steel)	...	220	1	0	12							
							No. III Struts (wrought-iron) ...	...	1	16	2	16							

CLASS A.—IRON BRIDGE-WORK.

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
							Summary of Bukkur Cantilever—contd.						A.	A.	£ s. d.		s.		
146—contd.	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	Large pillars (steel)	...	166	11	1	12							For detailed rates per ton, see Appendix A.
							Large pillars (wrought-iron)	...	1	16	2	16							
							Small pillars (steel)	...	6	16	1	17							
							No. IV Struts (steel)	...	7	5	2	26							
							Inclined tie (steel)	...	76	18	1	14							
							Horizontal tie (steel)	...	76	14	2	24							
							Connections at ends of ditto	...	9	10	0	17							
							Secondary tie (steel)	...	6	6	0	10							
							Guys (steel)	...	200	5	1	22							
							No. I supports for Guys (steel) ...	...	6	9	0	24							
							Foundation bolts and washers (wrought-iron).	...	0	14	0	15							
							No. II supports for Guys (steel) ...	...	6	8	0	10							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							No. III supports for Guys (steel)	...	13	1	2	16							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							Anchors (steel)	...	29	15	2	18							
							Booms (steel)	...	147	19	2	14							
							No. I Vertical and Raker (steel) ...	...	4	6	0	17							
							No. II Vertical (steel)	...	3	18	2	15							
							No. III Vertical and Raker (steel)	...	14	6	1								
							No. II Vertical and Raker (steel)	...	58	12	0	6							

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span.				Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
							Summary of Bukkur Cantilever—concld.		Tons.	cwt.	qrs.	lbs.	A.	A.	£ s. d.		s.		
146—*contd.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between	Large bed plates (steel) ...	...	49	15	2	10							For detailed rates per ton, see Appendix A.
							Foundation bolts and washer plates (wrought-iron).	...	5	9	0	22							
							Small bed plates (steel) ...	...	3	17	0	24							
							Foundation bolts and washers (wrought iron).	...	0	7	0	14							
							Trimmers (steel)	...	73	11	1	14							
							Bed plates and bolts for trimmers (wrought-iron).	...	0	2	3	2							
							Trusses under trimmers (steel) ...	...	12	15	0	20							
							Distance girders (steel) ...	...	19	18	2	13							
							Wind ties (steel)	...	19	6	2	5							
							Cross girders (steel)	...	30	15	2	4							
							Roadway—												
							Corrugated plates (steel) ...	...	20	3	0	5							
							Road beams curbs, &c., (steel)	...	43	0	2	22							
							Bolts, screws &c. (wrought-iron)	...	2	3	0	6							
							Hand railing (steel)	...	10	2	0	18							
							Bolts, screws, &c., (wrought-iron)	...	0	11	2	8							
							Hand rail standards (steel) ...	...	6	18	1	26							
							Total steel and iron in cantilever on Bukkur side of Pass.	...	1,430	5	1	9							
							NOTE—This total is made up of—												
							Steel ...	...	1,417	0	0	16							
							Wrought-iron ...	...	13	5	0	21							
								...	1,430	5	1	9							

INDIAN STATE RAILWAYS.

CLASS A—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span.				Number of India Office. drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
							Summary of Haji Motu Cantilever.		Tons	cwt.	qrs.	lbs.	A.	A.	£ s. d.		s.		
146—*concld.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	Steel as in Bukkur Cantilever ...	...	1,417	0	0	16							For detailed rates per ton, see Appendix A.
							Iron as in ditto	...	13	5	0	21							
							Additional Steel in Guy of Haji Motu Cantilever.	...	16	5	1	10							
							Total steel and iron in Cantilever on Haji Motu side of Pass.	...	1,446	10	2	19							
							Total quantities in two cantilevers—												
							Total steel and iron in Bukkur Cantilever.	...	1,430	5	1	9							
							Total steel and iron in Haji Motu Cantilever.	...	1,446	10	2	19							
							Grand Total ...	...	2,876	16	0	0							

INDIAN STATE RAILWAYS.

Class A.—Iron Bridge-work,

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Detail.	Quantity Contracted for. Number.	Quantity Contracted for. Weight. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
151	30th April 1885 ...	108 of 1884 ...	Rajputana-Malwa, Metre gauge.	Hook bolts 8½″ long × ¾″ diameter screwed for lengths of three inches.	...	2	0	0	0	...	...	15 17 6	Ton	...	B.	
				Ditto screwed for lengths of 4 inches	...	1	0	0	0	...	...	15 17 6	,,	...	,,	
161	12th October 1885 ...	39 of 1885 ...	Indus Valley, 5′ 6″ gauge	Hook bolts 9¼″ × ¾″ with nuts and washers.	2,000	2	5	1	3	...	...	17 0 0	,,	17-6	K.	
159	17th September 1885 ...	31 of 1885 ...	Eastern Bengal, 5′ 6″ gauge	Piers, wrought iron, for bridges, broad gauge :—												
				Cast iron cylinders, top lengths marked A.	14	4	19	0	0	551	612	5 15 0	Ton	20	C.	
				Covers for ditto ...	14	3	13	0	0	...	...	5 15 0	,,	,,	,,	
				Cast iron cylinders intermediate lengths marked C.	56	55	10	0	0	...	...	5 15 0	,,	,,	,,	

Note.—B.—Bombay; C.—Calcutta; K.—Karachi; M.—Madras; R.—Rangoon.
For rates for landing State Railway Stores, see Director General of Railways' Circular No. 22, dated 16th December 1885.

G. F. WILSON, Captain, R.E.,
for Director General.

Accompaniment to Director General of Railways' Circular No. 12 of 1886.

Rate list class A—Iron, Bridge-work.

Appendix A.

(Detailed rates of Iron and Steel work in Sukkur Bridge Cantilevers. Contract No. A. 146.)

Description of Work.		Rate Delivered free along side in the Port of London. £ s. d.	Port of Liverpool or Birkenhead. £ s. d.
For all Steelwork in Booms	per ton	34 5 0	35 15 0
Ditto in Inclined Ties and Bracing	,,	39 5 0	40 15 0
Ditto in Horizontal Ties and Bracing	,,	39 5 0	40 15 0
Ditto in Guys and Bracing	,,	24 5 0	25 15 0
Ditto in Anchors	,,	24 5 0	25 15 0
Ditto in Bed Plates	,,	30 0 0	31 10 0
Ditto in Pillars and No. 3 Struts	,,	39 5 0	40 15 0
Ditto in No. 2 Struts and Bracing	,,	39 5 0	40 15 0
Ditto in No. 1 Struts	,,	39 5 0	40 15 0
Ditto in Verticals and Rakers	,,		
Ditto in Trimmers	,,	34 5 0	35 15 0
Ditto in Cross and Distance Girders	,,		
Ditto in Road Beams and Curbs	,,	19 0 0	20 10 0
Ditto in Corrugated Floor Plates	,,	34 5 0	35 15 0
Ditto in other portions	,,	24 5 0	25 15 0
For all Plate Ironwork	,,	24 5 0	25 15 0
For all Iron Bars	,,	39 5 0	40 15 0
For all Wrought Iron in Tubes	,,	25 0 0	26 10 0
For all Bolts, Nuts, and Washers	,,	35 0 0	36 10 0
For all Coach and Wood Screws	,,	35 0 0	36 10 0
For Spike Nails	,,	18 0 0	19 0 0
For Service Bolts, &c.	,,		

Note.—All the above prices include Rivets and Spare Rivets.

C. G. P. Press, Simla.—No. 274 D. G. R.—1-12-86—2,000.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Enclosure to Director General of Railways' Circular No. 12, dated 23rd November 1886.

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date.	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet. Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount. £ s. d.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate. s.	Port.	Remarks.
138	3rd February 1885 ...	54 of 1884	Assam-Behar ...	...	Metre ...	...	Curbs, wrought-iron, for wells, 12′ 6″ diameter.	52	3	19	0	1	492	569	46 3 1	Each	15-6	C.	
139	3rd February 1885 ...	54 of 1884	Ditto ...	...	,, ...	...	Ditto, 15′ diameter	50	5	11	0	19	493	559	63 2 3	,,	12-9	C.	
							Wrought-iron work	...	4	16	2	5	...	...	10 12 6	Ton	...	...	
							Bond rings and covers	...	0	6	3	4	...	...	11 14 6	,,	...	...	
							Vertical tie rods and bolts... ...	...	0	7	0	10	...	...	20 12 6	,,	...	...	
							Service bolts and nuts	...	0	0	3	0	...	...	14 7 0	,,	...	...	
160	8th October 1885 ...	71 of 1885	Sind-Sagar ...	...	5′ 6″ ...	...	Curbs, wrought-iron, for wells, 12′ 6″ diameter.	50	3	17	2	10	492	594	64 0 9	Each set	18	K.	
							Bond rings for ditto	100											
							Lower vertical tie rods with bolts	300											
							Upper ditto	300											
157	2nd September 1885 ...	43 of 1885	Ferozepore Bridge Works.	...	,, ...	...	Curbs, wrought-iron for wells; spare parts of—												
							Bond rings 10′ radius	57	33	9	2	6	...	593	16 10 0 or 601 17 0	Ton Total	18	K.	
							Tie rods each 14′ long ...	456	24	16	0	1	...	...	13 10 0 or 334 16 1	Ton Total			
							Ditto 9′ long	228											
148	4th April 1885 ...	Tel. dated 3rd January 1885.	Jhansi-Manickpur	6	5′ 6″ ...	Upper ...	Girders, Plate	10	0	15	2	10	514	565	7 12 10	Span	20	C.	
							Girderwork	...	0	14	3	4	...	...	9 5 0	Ton	...	...	
							Hook bolts	...	0	0	3	6	...	...	20 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	No. of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	6	5′ 6″ ...	Upper ...	Girders, Plate	17	0	15	2	0	514	622	£ s. d. 7 2 0	Span	s. 16	K.	
							Girderwork	...	0	14	3	0	...	...	8 15 0	Ton	...	...	
							Hook bolts and washers ...	...	0	0	2	6	...	...	18 0 0	,,	...	...	
							Service bolts and washers...	...	0	0	0	22	...	...*	15 0 0	,,	...	...	
155	7th August 1885 ...	2 P. R. of 1885.	Lucknow-Sitapur	10	Metre ...	Upper ...	Girders, Plate, complete ...	20	0	18	3	13	342	410	8 14 8	Span	18	B.	
							Wrought-iron Girderwork ...	...	0	17	2	0	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, service bolts, &c. ...	...	0	1	1	13	...	...	12 10 0	,,	...	...	
102	10th June 1885 ...	47 of 1885	Sind-Pishin ...	10	5′6″ ...	Upper ...	Girders, Plate, complete ...	25	1	4	0	14	520	584	12 2 8	Span	21	K.	
							Wrought-iron Girderwork ...	...	1	3	3	21	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	0	21	...	...	18 0 0	,,	...	...	
106	26th November 1885 ...	40 of 1885	Ferozepore Bridge Works.	10	,, ...	,, ...	,, Plate, complete ...	3	1	4	0	14	529	615	12 5 0	Span	...	K.	
135	6th January 1885 ...	54 and 56 of 1884.	Assam-Behar and Tirhoot.	12	Metre ...	Upper ...	Girders, Plate, complete ...	73	1	5	0	6	337	525	12 17 6	Span	...	...	
							Wrought-iron Girderwork ...	...	1	3	2	4	...	...	9 16 0	Ton	...	...	
							Bolts	...	0	1	1	9	...	...	18 3 0	,,	...	...	
							Service Bolts	...	0	0	0	21	...	...	14 3 0	,,	...	...	
41	3rd February 1885 ...	77 of 1884	Burma ...	12	,, ...	,, ...	,, Plate, complete ...	19	1	4	2	24	337	541	11 19 2	Span	25	R.	
							Wrought-iron Girderwork ...	...	1	3	0	22	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	2	2	...	...	20 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or Lwer boom.	Detail.	No. of spans contracted for.	Weight of each spans. Tons.	cwt.	qrs.	lbs.	Number of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
147	31st March 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	12	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	15	1	8	3	25	513	546	13 18 11	Span	16	B.	
							Girderwork	...	1	7	3	23	...	...	9 5 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	0	2	...	...	20 0 0	,,	...	...	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	12	,, ...	,, ...	,, Plate, complete	50	1	9	3	0	513	623	13 8 6	Span	16	K.	
							Girderwork	...	1	8	3	6	...	...	8 15 0	Ton	...	...	
							Hookbolts and washers ...	...	0	0	3	0	...	...	18 0 0	,,	...	...	
							Service bolts and washers ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
141	3rd February 1885 ...	77 of 1884	Burma ...	14	Metre ...	Upper ...	Girders, Plate, complete ...	4	1	10	1	7	413	542	14 12 9	Span	25	R.	
							Wrought-iron Girderwork ...	...	1	8	2	...	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	3	7	...	...	20 0 0	,,	...	...	
135	6th January 1885 ...	54 of 1884	Assam-Behar ...	20	Metre ...	Upper ...	Girders, Plate, complete ...	112	2	10	3	1	336	536	27 6 1	Span	17-6	C.	
							Wrought-iron Girderwork ...	...	2	8	1	27	...	...	10 8 0	Ton	...	...	
							Hookbolts	...	0	2	0	9	...	...	18 15 0	,,	...	...	
							Service bolts	...	0	0	0	21	...	...	14 15 0	,,	...	...	
140	3rd February 1885 ...	73 of 1884	Assam-Behar ...	20	,, ...	,, ...	,, Plate, complete	5	2	10	1	20	336	540	30 18 11	Span	15-6	C.	
141	3rd February 1885 ...	77 of 1884	Burma ...	20	,, ...	,, ...	,, Plate, complete	52	2	9	1	7	336	543	23 16 6	,,	25	R.	
							Wrought-iron Girderwork ...	...	2	7	3	9	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	1	26	...	...	20 0 0	,,	...	...	
155	7th August 1885 ...	2PR. of 1885	Lucknow-Sitapur	20	,, ...	,, ...	,, Plate, complete	12	2	10	1	20	336	Photo.	23 18 7	Span	18	B.	* Drawing not received from the India Office.
							Wrought-iron Girderwork ...	...	2	8	0	20	...	...	9 7 0	Ton	...	...	
							Bolts, nuts, service bolts, &c.	...	0	2	1	0	...	...	12 10 0	,,	...	...	

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of Spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £. s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	20	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	3	8	3	15	387	533	37 17 9	Span	20	K.	
147	31st March 1885 ...	Ditto ...	Ditto ...	20	,, ...	,, ...	Ditto	4	3	4	0	14	387	547	31 5 1	,,	20	K.	
							Girder work	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
148	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manikpur	20	,, ...	,, ...	,, Plate, complete	33	3	4	0	14	387	566	31 5 1	Span	24	K.	
							Girderwork	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah	20	,, ...	,, ...	,, Plate, complete	1	3	3	1	21	387	613	32 5 4	Span	17	B.	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	20	,, ...	,, ...	,, Ditto	47	3	4	0	14	387	624	29 2 0	Span	16	K.	
							Girderwork	...	3	2	2	16	...	...	8 17 6	Ton	...	...	
							Hookbolts and washers ...	...	0	1	1	4	...	...	18 0 0	,,	...	...	
							Service bolts and washers ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30	5′ 6″ ...	Between ...	Girders, Plate, complete ...	10	1	17	0	1	449 & 500	562 and photo.	24 2 9	Span	17-6	C.	Of these 10 girders, are end and 6 intermediate.
							Wrought-iron Girderwork ...	...	1	16	3	8	...	...	13 0 0	Ton	...	...	
							Service bolts and washers ...	...	0	0	0	21	...	...	21 0 0	,,	...	...	
158	17th September 1885 ...	31 of 1885	Eastern Bengal ...	30	,, ...	,, ...	,, Plate, complete	2	8	5	0	10	549	621	83 11 6	Span	24	C.	The weight and cost of this span have been taken from the Invoice of S. S. *Brindisi*, which sailed on 23rd March 1886.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30*	,, ...	,, ...	,, Plate, complete	1	2	8	2	14	497	563	31 17 0	,,	17-6	C.	* 35′ is the total length.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £. s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	37′ 6″*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	4	2	10	3	14	498	564	33 1 5	Span	17-6	C.	* 37′ 6″ is the total length.
135	6th January 1885 ..	54 of 1884	Assam-Behar ...	40	Metre ...	Upper ...	Girders, Plate, complete ...	31	7	18	3	1	341	558	82 6 7	Span	18	C.	
							Wrought-iron girderwork ...	...	7	14	0	20	...	...	10 3 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	14 10 0	,,	...	...	
							Hookbolts	...	0	3	3	9	...	...	18 10 0	,,	...	...	
145	2nd March 1885 ..	31 of 1884	Tirhoot ...	40	,, ...	,, ...	,, Plate, complete	7	7	17	3	22	341	545	93 8 10	Span	21	C.	
							Wrought-iron girderwork ...	...	7	13	1	27	...	...	11 10 0	Ton	...	...	
							Service bolts	...	0	0	3	2	...	...	20 0 0	,,	...	...	
							Hookbolts	...	0	3	2	21	...	...	24 0 0	,,	...	...	
153	14th July 1885 ...	29 of 1885	Cawnpore-Achnera	40	,, ..	,, ..	,, Plate, complete	3	8	0	0	0	341	606	83 13 2	Span	18	B.	
155	7th August 1885 ..	2 P. R. of 1885.	Lucknow-Sitapur	40	,, ...	,, ...	,, Plate, complete	8	8	0	0	9	341	607	76 14 7	Span	17-6	B.	
							Wrought-iron girderwork ...	...	7	15	2	0	...	...	9 10 0	Ton	...	...	
							,, Bolts, nuts, service bolts, &c....	...	0	4	2	9	...	...	12 10 0	,,	...	...	
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	40	5′ 6″ ...	,, ...	Girders, Plate, complete ...	12	9	18	3	20	388	534	109 0 4	Span	20 17	K. B.	
143	25th February 1885 ..	4 of 1885	Sind-Pishin ...	40	,, ...	,, ...	,, Plate, complete	12	9	11	3	21	388	544	110 6 9	,,	18	K.	

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date.	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount. £ s. d.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate. s.	Port.	Remarks.
149	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	40	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	76	9	10	3	12	388	581	96 9 4	Span	22	K.	
							Girderwork	...	9	7	2	24	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	15 15 0	,,	...	...	
							Hookbolts, &c.	...	0	2	1	16	...	...	16 15 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah ...	40	,, ...	...	,, Plate, complete	3	10	1	0	10	388	614	110 12 0	Span	17	B.	
							Girderwork	...	9	16	0	18	...	...	11 0 0	Ton	...	...	
							Bolts and nuts	...	0	2	1	20	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	2	2	0	...	...	18 0 0	,,	...	...	
170	22nd December 1885 ...	36 of 1885	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	30	9	9	0	14	388	625	85 17 6	span	21-3	K.	
							Main girders, covers and bracings.	...	9	3	2	3	...	...	9 0 0	ton	...	...	
							Rivets	...	0	2	1	23	...	...	9 0 0	,,	...	...	
							Service bolts, hookbolts, and washers.	...	0	3	0	16	...	...	13 18 0	,,	...	...	
171	22nd December 1885 ...	,, ...	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	24	9	7	0	11	388	630	92 6 5	Span	32	K	
							Wrought-iron girderwork ...	...	9	4	0	17	...	...	9 15 0	Ton	...	...	
							Hookbolts, &c.	...	0	2	1	0	...	...	18 0 0	,,	...	...	
							Service bolts	...	0	0	2	22	...	...	15 0 0	,,	...	...	
155	7th August 1885 ...	2P.R. of 1885	Lucknow-Sitapur	60	Metre ...	Upper ...	Girders, Warren, complete ...	8	17	12	0	14	419	608-9	178 19 6	Span	23-1	B.	
							Wrought-iron girderwork ...	...	16	19	0	0	...	...	10 1 6	Ton	...	...	
							Bolts, nuts, service bolts, &c. ...	...	0	13	0	14	...	...	12 0 10	,,	...	...	
156	Ditto ...	63 of 1885	Cawnpore-Achnera	60	,, ...	,, ...	,, Warren, complete ...	6	18	9	2	2	419	610-1	180 9 3	Span	20	B.	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

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Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount. £. s. d.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section	60	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	23	7	3	22	389	535	257 7 5	Span	14-8	B.	
169	9th December 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	60	,, ...	,, ...	ditto	2	40	3	11	10	586	643	425 10 0	,,	20	B.	
142	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	80	5′ 6″ ...	Upper ...	Girders Plate complete ...	1	38	5	0	6	469	570-1	477 7 3	Span	27-6	B.	
							Iron-work	...	36	18	1	6	...	...	12 3 6	Ton	...	...	
							Bolts	...	1	6	3	0	...	...	20 17 6	,,	...	...	
168	2nd December 1885 ...	61 of 1885	Bilaspur-Etawah ...	80	...	Between ...	,, Plate, complete	1	61	13	1	3	585	616-7	707 16 6	Span	20	B.	
							Wrought-iron girderwork ...	...	61	5	3	4	...	...	11 10 0	Ton	...	...	
							Bolts, nuts and washers ...	...	0	4	1	27	...	...	22 0 0	,,	...	...	
							Service bolts, &c. ...	...	0	3	0	0	...	...	18 0 0	,,	...	...	
142	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	100	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	83	15	3	0	471	618 560-1	1,009 9 5	Span	17	B.	
							Wrought-iron girderwork ...	...	83	6	2	21	...	...	12 0 0	Ton	...	...	
							Bolts and nuts	...	0	9	0	7	...	...	20 17 6	,,	...	...	
148	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	100	5′ 6″ ...	Upper ...	,, Warren, complete ...	10	66	6	2	20	515	601-2	701 4 11	Span	21	K.	
							Girderwork	...	65	16	2	21	...	...	10 10 0	Ton	...	...	
							Bolts and nuts	...	0	5	0	2	...	...	20 0 0	,,	...	...	
							Service bolts	...	0	4	3	25	...	...	20 0 0	,,	...	...	

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CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
150	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manickpur	100	5′ 6″ ...	Upper ...	Girders, Warren, complete ...	32	67	0	0	14	515	567-8	758 3 4	Span	21	K.	
							Girderwork	...	66	11	2	18	...	...	11 5 0	Ton	...	...	
							Bolts and nuts	...	0	4	3	24	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	3	2	0	...	...	18 0 0	,,	...	...	
154	21st July 1885 ...	47 of 1885	Sind-Pishin ...	100	,, ...	Between ...	,, Warren, complete ...	8	83	9	2	16	471	618-9	900 7 7	Span	25	K.	
							Wrought-iron Girderwork ...	...	83	0	2	9	...	...	10 15 0	Ton	...	...	
							Bolts and nuts	...	0	4	2	7	...	...	17 5 0	,,	...	...	
							Service bolts	...	0	4	2	0	...	...	17 5 0	,,	...	...	
171	22nd December ...	36 of 1885	Sind-Sagar ...	100	,, ...	,, ...	,, Triangulated, complete ...	2	87	3	0	12	471	638-9	875 3 6	Span	24	K.	As per invoice.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	104*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	1	63	2	0	2	500	587	790 7 3	Span	25	C.	*Is the total length.
138	17th September 1885 ...	31 of 1885	Eastern Bengal ...	116	5′ 6″ ...	Between ...	Girders, Plate, complete, curved for double line of rails.	2	72	18	3	23	548	‡	793 6 0	Span†	Not yet received.		† Bearing girders not included. ‡ Drawing not received from India Office.
							Bearing girders	4	5	2	3	2	...	...	55 17 7	Two	24	C.	
136	7th January 1885 ...	37 of 1884	Rajputana-Malwa	§131′-2″	Metre ...	Upper ...	Girders, Whipple Murphy, complete	3	66 (Exclusive of service bolts.)	5	2	8	494-5	553-7	1,041 6 8	Span	Not known		Invoice and Tonnage and Freight account not received.
							Steel girder work in girders and roadway. ...		63	8	2	0	...	...	15 10 0	Ton	...	...	§ This is the total length.
							Steel in rollers	...	0	5	2	0	...	...	30 0 0	,,	...	...	
							Cast-iron in bed plates, saddle and knuckle plates. ...		2	6	3	0	...	...	12 0 0	,,	...	...	
							Wrought-iron in roller frames... ...		0	1	3	0	...	...	25 0 0	,,	...	...	
							Bolts, nuts and washers		0	3	0	8	...	...	24 0 0	,,	...	...	
							Service bolts, &c.		Not known.						18 0 0	,,	...	...	

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CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
140	3rd February 1885 ...	78 of 1885	Assam-Behar ...	150	Metre ...	Between ...	Girders, Triangulated, complete ...	14	96	9	2	10	204-5	590-2	1,135 14 5	Span	25	C.	Details not given in the Invoice.
							Wrought-iron girderwork and forgings ...		...	...	...	...	...	...	12 0 0	Ton			
							Steel		...	...	...	...	...	...	30 0 0	,,			
							Bolts nuts, washers and service bolts ...		...	...	...	...	...	...	18 0 0	,,			
152	10th June 1885 ...	47 of 1885	Sind-Pishin ...	150	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	150	15	2	20	472-3	603-5	1,717 16 11	Span	17	K.	
							Wrought-iron girderwork ...	...	145	3	0	5	...	...	11 5 0	Ton			
							Forgings	...	0	5	3	0	...	...	25 0 0	,,			
							Cast iron work	...	4	0	2	14	...	...	12 0 0	,,			
							Steel rollers	...	0	10	3	0	...	...	25 0 0	,,			
							Bolts and nuts	...	0	8	2	0	...	...	24 0 0	,,			
							Service bolts	...	0	7	0	1	...	...	18 0 0	,,			
162	12th October 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	170	5′ 6″ ...	Between ...	Girders, Whipple Murphy, complete	6	164	9	0	23	572-3	...	1,994 10 9	Span	...	...	Girder not yet received
							Steel work in girders, bracings, curbs, &c. ...		...	...	...	...	...	...	12 0 0	Ton			
							Steel in corrugated Floor Plates ...		...	...	...	...	...	...	12 0 0	,,			
							Steel in rollers	...	...	...	...	...	...	...	34 10 0	,,			
							Cast iron in bed plates, saddle and knuckle plates. ...		...	...	...	...	...	...	9 10 0	,,			
							Wrought-iron in roller frames ...		...	...	...	...	...	...	18 0 0	,,			
							Bolts, nuts, washers and coach screw ...		...	...	...	...	...	...	16 0 0	,,			
							Service bolts, &c.		...	...	...	...	...	...	14 0 0	,,			

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CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
163	21st October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	Between ...	Girders, Triangulated, complete ...	4	312	11	3	14	A 575-7	A. 626-9 and photo.	£ s. d. 3,990 15 6	Span	s. 19-6	C.	
							Subsequently paid to the contractors for riveting flange plates to booms.	...	...	...	...	...	...	...	49 10 0	,,			
															4,040 5 6				
164	23rd October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	,, ...	,, Triangulated, complete	4	314	5	3	20	575-7	Photos.	3,946 4 5	Span	17	C.	
							Steel in girders bracings, loose rivets, &c.	...	206	17	1	0	...		12 15 0	Ton	...		
							Steel in connecting plates ...	...	1	7	2	0	...	...	12 15 0	,,	...		
							Wrought-iron in floor plates, toes, overhead, cross and rail girders diaphragms, &c., angle bar, rail guard, cantilevers, &c. ...	...	85	17	0	7	...	....	11 15 0	,,	...		
							Steel in rollers and knuckles ...	...	2	18	1	0	...	...	22 10 0	,,	...		
							Cast-iron in bed, saddle and knuckle plates.	...	13	7	2	0	...	...	11 0 0	,,	...		
							Wrought-iron in roller frames ...	...	0	11	3	0	...	...	20 10 0	,,	...		
							Bolts, nuts, &c.	...	1	0	2	27	...	...	18 0 0	,,	...		
							Service bits	...	2	5	3	14	...	...	17 0 0	,,	...		
146	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″	Between ...	Steel and iron work for two cantilevers each 310′ long.	...	2,876	16	0	0	437-55	Photos.	98,806 9 5	Total	Contract not yet completed.		The Central girder span (of 200 feet) connecting these two cantilevers is not included in this contract. Separate contract will be let for this span.
							The weights of the steel and iron work in the different parts of each cantilever are as follow :—												
							Summary of Bukkur Cantilever.												
							No. I Struts (steel)	...	17	5	0	10							For detailed rates per ton, see Appendix A.
							No. II Struts (steel)	...	44	3	3	12							
							No. III Struts (steel)	...	220	1	0	12							
							No. III Struts (wrought-iron) ...	...	1	16	2	16							

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CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
146—contd.	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	*Summary of Bukkur Cantilever—contd.*		Tons.	cwt.	qrs.	lbs.	A.	A.	£ s. d.		s.		
							Large pillars (steel)	...	166	11	1	12							For detailed rates per ton, see Appendix A.
							Large pillars (wrought-iron) ...	...	1	16	2	16							
							Small pillars (steel)	...	6	16	1	17							
							No. IV Struts (steel)	...	7	5	2	26							
							Inclined tie (steel)	...	76	18	1	14							
							Horizontal tie (steel)	...	76	14	2	24							
							Connections at ends of ditto ...	...	9	10	0	17							
							Secondary tie (steel)	...	6	6	0	10							
							Guys (steel)	...	200	5	1	22							
							No. I supports for Guys (steel) ...	...	6	9	0	24							
							Foundation bolts and washers (wrought-iron).	...	0	14	0	15							
							No. II supports for Guys (steel) ...	...	6	8	0	10							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							No. III supports for Guys (steel)	...	13	1	2	16							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							Anchors (steel)	...	29	15	2	18							
							Booms (steel)	...	147	19	2	14							
							No. I Vertical and Raker (steel) ...	...	4	6	0	17							
							No. II Vertical (steel)	...	3	18	2	15							
							No. III Vertical and Raker (steel)	...	14	6	1								
							No. II Vertical and Raker (steel)	...	58	12	0	6							

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to Port. Rate. s.	Port.	Remarks.
146—contd.	27th February 1885 ...	36 of 1883	Sukkur Bridge	790	5′ 6″ ...	Between	*Summary of Bukkur Cantilever—concld.*						A.	A.					For detailed rates per ton, see Appendix A.
							Large bed plates (steel) ...	...	49	15	2	10							
							Foundation bolts and washer plates (wrought-iron).	...	5	9	0	23							
							Small bed plates (steel) ...	...	3	17	0	24							
							Foundation bolts and washers (wrought iron).	...	0	7	0	14							
							Trimmers (steel)	...	73	11	1	14							
							Bed plates and bolts for trimmers (wrought-iron).	...	0	2	3	2							
							Trusses under trimmers (steel) ...	...	12	15	0	20							
							Distance girders (steel) ...	...	19	18	2	13							
							Wind ties (steel)	...	19	6	2	5							
							Cross girders (steel)	...	30	15	2	4							
							Roadway—												
							Corrugated plates (steel) ...	...	30	3	0	5							
							Road beams curbs, &c., (steel)	...	43	0	2	22							
							Bolts, screws &c. (wrought-iron)	...	2	3	0	6							
							Hand railing (steel)	...	10	2	0	18							
							Bolts, screws, &c., (wrought-iron)	...	0	11	2	8							
							Hand rail standards (steel) ...	...	6	18	1	23							
							Total steel and iron in cantilever on Bukkur side of Pass.	...	1,430	5	1	9							
							NOTE—This total is made up of—												
							Steel ...	...	1,417	0	0	16							
							Wrought-iron ...	...	13	5	0	21							
								...	1,430	5	1	9							

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to Port. Rate. s.	Port.	Remarks.
146—concld.	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	*Summary of Haji Motu Cantilever.*						A.	A.					For detailed rates per ton, see Appendix A.
							Steel as in Bukkur Cantilever ...	...	1,417	0	0	16							
							Iron as in ditto	...	13	5	0	21							
							Additional Steel in Guy of Haji Motu Cantilever.	...	16	5	1	10							
							Total steel and iron in Cantilever on Haji Motu side of Pass.	...	1,446	10	2	19							
							Total quantities in two cantilevers—												
							Total steel and iron in Bukkur Cantilever.	...	1,430	5	1	9							
							Total steel and iron in Haji Motu Cantilever.	...	1,446	10	2	19							
							Grand Total		2,876	16	0	0							

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Detail.	Quantity Contracted for. Number.	Quantity Contracted for. Weight. Tons.	cwt.	qrs.	lbs.	Number of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £ s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
151	30th April 1885 ...	103 of 1884 ...	Rajputana-Malwa, Metre gauge.	Hook bolts 8½" long × ¾" diameter screwed for lengths of three inches.	...	2	0	0	0	...	...	15 17 6	Ton	...	B.	
				Ditto screwed for lengths of 4 inches	...	1	0	0	0	...	..	15 17 6	,,	...	,,	
161	12th October 1885 ...	39 of 1885 ...	Indus Valley, 5' 6" gauge	Hook bolts 9¼" × ¾" with nuts and washers.	2,000	2	5	1	3	...	...	17 0 0	,,	17-6	K.	
139	17th September 1885 ...	31 of 1885 ...	Eastern Bengal, 5' 6" gauge	Piers, wrought iron, for bridges, broad gauge :—												
				Cast iron cylinders, top lengths marked A.	14	4	19	0	0	551	612	5 15 0	Ton	20	C.	
				Covers for ditto ...	14	3	13	0	0	...	...	5 15 0	,,	,,	,,	
				Cast iron cylinders intermediate lengths marked C.	56	53	10	0	0	...	...	5 15 0	,,	,,	,,	

NOTE.—B.—Bombay; C.—Calcutta; K.—Karachi; M.—Madras; R.—Rangoon.
For rates for landing State Railway Stores, see Director General of Railways' Circular No. 22, dated 16th December 1885.

G. F. WILSON, Captain, R.E.,
for Director General.

Accompaniment to Director General of Railways' Circular No. 12 of 1886.

Rate list class A—Iron Bridge-work.

Appendix A.

(Detailed rates of Iron and Steel work in Sukkur Bridge Cantilevers. Contract No. A. 146.)

Description of Work.	Rate Delivered Free Along Side in the Port of London. £ s. d.	Rate Delivered Free Along Side in the Port of Liverpool or Birkenhead. £ s. d.
For all Steelwork in Booms ... ... per ton	34 5 0	35 15 0
Ditto in Inclined Ties and Bracing ... ... ,,	30 5 0	40 15 0
Ditto in Horizontal Ties and Bracing ... ... ,,	39 5 0	
Ditto in Guys and Bracing ... ... ,,	24 5 0	25 15 0
Ditto in Anchors ... ... ,,	24 5 0	
Ditto in Bed Plates ... ... ,,	30 0 0	31 10 0
Ditto in Pillars and No. 3 Struts ... ... ,,	39 5 0	
Ditto in No. 2 Struts and Bracing ... ... ,,	39 5 0	40 15 0
Ditto in No. 1 Struts ... ... ,,	39 5 0	
Ditto in Verticals and Rakers ... ... ,,	39 5 0	
Ditto in Trimmers ... ... ,,	34 5 0	35 15 0
Ditto in Cross and Distance Girders ... ... ,,		
Ditto in Road Beams and Curbs ... ... ,,	19 0 0	20 10 0
Ditto in Curraghed Floor Plates ... ... ,,	34 5 0	35 15 0
Ditto in other portions ... ... ,,	24 5 0	25 15 0
For all Plate Ironwork ... ... ,,	24 5 0	25 15 0
For all Iron Bars ... ... ,,	39 5 0	40 15 0
For all Wrought Iron in Tubes ... ... ,,	25 0 0	26 10 0
For all Bolts, Nuts, and Washers ... ... ,,	35 0 0	36 10 0
For all Couch and Wood Screws ... ... ,,	35 0 0	
For Spike Nails ... ... ,,	13 0 0	19 0 0
For Service Bolts, &c. ... ... ,,		

Note.—All the above prices include Rivets and Spare Rivets.

G. E. R. Press, Sialia.—No. 874 D. G. R.—1-12-86.—2,000.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Enclosure to Director General of Railways' Circular No. 12 of 1886.

RATE LIST.

CLASS A.

IRON BRIDGE-WORK.

FOR 1885.

Enclosure to Director General of Railways' Circular No. 12, dated 23rd November 1886.

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date.	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet. Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount. £ s. d.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate. s.	Port.	Remarks.
138	3rd February 1885 ...	54 of 1884	Assam-Behar ...	...	Metre ...	...	Curbs, wrought-iron, for wells, 12′ 6″ diameter.	52	3	19	0	1	492	569	46 3 1	Each	15-6	C.	
139	3rd February 1885 ...	54 of 1884	Ditto ...	...	,, ...	...	Ditto, 15′ diameter	50	5	11	0	19	493	559	63 2 3	,,	12-9	C.	
							Wrought-iron work	...	4	16	2	5	...	...	10 12 6	Ton	...	...	
							Bond rings and covers ...	...	0	6	3	4	...	...	11 14 6	,,	...	...	
							Vertical tie rods and bolts...	...	0	7	0	10	...	...	20 12 6	,,	...	...	
							Service bolts and nuts ...	...	0	0	3	0	...	...	14 7 0	,,	...	...	
160	8th October 1885 ...	71 of 1885	Sind-Sagar ...	...	5′ 6″ ...	...	Curbs, wrought-iron, for wells, 12′ 6″ diameter.	50	3	17	2	10	492	594	64 0 9	Each set	18	K.	
							Bond rings for ditto	100											
							Lower vertical tie rods with bolts	300											
							Upper ditto	300											
157	2nd September 1885 ...	43 of 1885	Ferozepore Bridge Works.	...	,, ...	...	Curbs, wrought-iron for wells; spare parts of—												
							Bond rings 10′ radius	57	36	9	2	6	...	593	16 10 0 or 601 17 0	Ton Total	18	K.	
							Tie rods each 14′ long ...	456	24	16	0	1	...	...	13 10 0 or 334 16 1	Ton Total			
							Ditto 9′ long	228											
148	4th April 1885 ...	Tel. dated 3rd January 1885.	Jhansi-Manickpur	6	5′ 6″ ...	Upper ...	Girders, Plate	10	0	15	2	10	514	565	7 12 10	Span	20	C.	
							Girderwork	...	0	14	3	4	...	...	9 5 0	Ton	...	...	
							Hook bolts	...	0	0	3	6	...	...	20 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet. Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	No. of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	6	5′ 6″ ...	Upper ...	Girders, Plate	37	0	15	2	0	514	622	£ s. d. 7 2 0	Span	s. 16	K.	
							Girderwork	...	0	14	3	0	...	...	8 15 0	Ton	...	...	
							Hook bolts and washers ...	...	0	0	2	6	...	...	18 0 0	,,	...	...	
							Service bolts and washers...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
155	7th August 1885 ...	2 P. R. of 1885.	Lucknow-Sitapur	10	Metre ...	Upper ...	Girders, Plate, complete ...	20	0	18	3	13	342	410	8 14 8	Span	18	B.	
							Wrought-iron Girderwork ...	...	0	17	2	0	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, service bolts, &c.	...	0	1	1	13	...	...	12 10 0	,,	...	...	
152	10th June 1885 ...	47 of 1885	Sind-Pishin ...	10	5′6″ ...	Upper ...	Girders, Plate, complete ...	25	1	4	0	14	529	584	12 2 8	Span	21	K.	
							Wrought-iron Girderwork ...	...	1	3	3	21	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	0	21	...	...	18 0 0	,,	...	...	
166	26th November 1885 ...	40 of 1885	Ferozepore Bridge Works.	10	,, ...	,, ...	,, Plate, complete ...	3	1	4	0	14	529	615	12 5 0	Span	...	K.	
135	6th January 1885 ...	54 and 56 of 1884.	Assam-Behar and Tirhoot.	12	Metre ...	Upper ...	Girders, Plate, complete ...	73	1	5	0	6	337	525	12 17 6	Span	...	...	
							Wrought-iron Girderwork ...	...	1	3	2	4	...	...	9 16 0	Ton	...	...	
							Bolts	...	0	1	1	9	...	...	18 3 0	,,	...	...	
							Service Bolts	...	0	0	0	21	...	...	14 3 0	,,	...	...	
41	3rd February 1885 ...	77 of 1884	Burma ...	12	,, ...	,, ...	,, Plate, complete ...	19	1	4	2	24	337	541	11 19 2	Span	25	R.	
							Wrought-iron Girderwork ...	...	1	3	0	22	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	2	2	...	...	20 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet. Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	No. of spans contracted for.	Weight of each spans. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea Freight per ton to port. Rate.	Port.	Remarks.
147	31st March 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	12	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	15	1	8	3	25	513	546	£ s. d. 13 18 11	Span	s. 16	B.	
							Girderwork	...	1	7	3	23	...	...	9 5 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	0	2	...	...	20 0 0	,,	...	...	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	12	,, ...	,, ...	,, Plate, complete	50	1	9	3	0	513	623	13 8 6	Span	16	K.	
							Girderwork	...	1	8	3	6	...	...	8 15 0	Ton	...	...	
							Hookbolts and washers ...	...	0	0	3	0	...	...	18 0 0	,,	...	...	
							Service bolts and washers ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
141	3rd February 1885 ...	77 of 1884	Burma ...	14	Metre ...	Upper ...	Girders, Plate, complete ...	4	1	10	1	7	413	542	14 12 9	Span	25	R.	
							Wrought-iron Girderwork ...	...	1	8	2	...	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	3	7	...	...	20 0 0	,,	...	...	
135	6th January 1885 ...	54 of 1884	Assam-Behar ...	20	Metre ...	Upper ...	Girders, Plate, complete ...	112	2	10	3	1	336	536	27 6 1	Span	17-6	C.	
							Wrought-iron Girderwork ...	...	2	8	1	27	...	...	10 8 0	Ton	...	...	
							Hookbolts	...	0	2	0	9	...	...	18 15 0	,,	...	...	
							Service bolts	...	0	0	0	21	...	...	14 15 0	,,	...	...	
140	3rd February 1885 ...	78 of 1884	Assam-Behar ...	20	,, ...	,, ...	,, Plate, complete	5	2	10	1	20	336	540	30 18 11	Span	15-6	C.	
141	3rd February 1885 ...	77 of 1884	Burma ...	20	,, ...	,, ...	,, Plate, complete	52	2	9	1	7	336	543	23 16 6	,,	25	R.	
							Wrought-iron Girderwork ...	...	2	7	3	9	...	...	9 0 0	Ton	...	...	
							Bolts, nuts, washers and service bolts.	...	0	1	1	26	...	...	20 0 0	,,	...	...	
155	7th August 1885 ...	2PR. of 1885	Lucknow-Sitapur	20	,, ...	,, ...	,, Plate, complete	12	2	10	1	20	336	Photo.*	23 18 7	Span	18	B.	* Drawing not received from the India Office.
							Wrought-iron Girderwork ...	...	2	8	0	20	...	...	9 7 0	Ton	...	...	
							Bolts, nuts, service bolts, &c.	...	0	2	1	0	...	...	12 10 0	,,	...	...	

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of Spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £. s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	20	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	3	8	3	15	387	533	37 17 9	Span	20	K.	
147	31st March 1885 ...	Ditto ...	Ditto ...	20	,, ...	,, ...	Ditto	4	3	4	0	14	387	547	31 5 1	,,	20	K.	
							Girder work	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c.	...	0	1	2	2	...	...	20 0 0	,,	...	...	
148	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manikpur	20	,, ...	,, ...	,, Plate, complete	33	3	4	0	14	387	566	31 5 1	Span	24	K.	
							Girderwork	...	3	2	2	12	...	...	9 10 0	Ton	...	...	
							Hookbolts, &c. ...	...	0	1	2	2	...	...	20 0 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah	20	,, ...	,, ...	,, Plate, complete	1	3	5	1	21	387	613	32 5 4	Span	17	B.	
167	1st December 1885 ...	36 of 1885	Sind-Sagar ...	20	,, ...	,, ...	,, Ditto	47	3	4	0	14	387	624	29 2 0	Span	16	K.	
							Girderwork	...	3	2	2	16	...	...	8 17 6	Ton	...	...	
							Hookbolts and washers ...	...	0	1	1	4	...	...	18 0 0	,,	...	...	
							Service bolts and washers ...	...	0	0	0	22	...	...	15 0 0	,,	...	...	
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30	5′ 6″ ...	Between ..	Girders, Plate, complete ...	10	1	17	0	1	449 & 500	562 and photo.	24 2 9	Span	17-6	C.	Of these 10 girders, are end and 6 intermediate.
							Wrought-iron Girderwork ...	...	1	16	3	8	...	...	13 0 0	Ton	...	...	
							Service bolts and washers ...	...	0	0	0	21	...	...	21 0 0	,,	...	...	
158	17th September 1885 ...	31 of 1885	Eastern Bengal ...	30	,, ...	,, ...	,, Plate, complete	2	8	5	0	10	549	621	83 11 6	Span	24	C.	The weight and cost of this span have been taken from the invoice of S. S. *Brindisi*, which sailed on 23rd March 1886.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ...	30*	,, ...	,, ...	,, Plate, complete	1	2	8	2	14	497	563	31 17 0	,,	17-6	C.	* 35′ is the total length.

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount. £. s. d.	Unit.	Entire sea freight per ton to port. Rate. s.	Port.	Remarks.
144	25th February 1885	80 of 1884	Eastern Bengal ...	37′ 6″*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	4	2	10	3	14	498	564	33 1 5	Span	17-6	C.	* 37′ 6″ is the total length.
135	6th January 1885 ..	54 of 1884	Assam-Behar ...	40	Metre ...	Upper ...	Girders, Plate, complete ...	31	7	18	3	1	341	558	82 6 7	Span	18	C.	
							Wrought-iron girderwork ...	...	7	14	0	20	...	...	10 3 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	14 10 0	,,	...	...	
							Hookbolts	...	0	3	3	9	...	...	18 10 0	,,	...	...	
145	2nd March 1885 ...	31 of 1884	Tirhoot ...	40	,, ...	,, ...	,, Plate, complete	7	7	17	3	22	341	545	93 8 10	Span	21	C.	
							Wrought-iron girderwork ...	...	7	13	1	27	...	...	11 10 0	Ton	...	...	
							Service bolts	...	0	0	3	2	...	...	20 0 0	,,	...	...	
							Hookbolts	...	0	3	2	21	...	...	24 0 0	,,	...	...	
153	14th July 1885 ...	29 of 1885	Cawnpore-Achnera	40	,, ..	,, ..	,, Plate, complete	3	8	0	0	0	341	606	83 13 2	Span	18	B.	
155	7th August 1885 ..	2 P. R. of 1885.	Lucknow-Sitapur	40	,, ...	,, ...	,, Plate, complete	8	8	0	0	9	341	607	76 14 7	Span	17-6	B.	
							Wrought-iron girderwork ...	...	7	15	2	0	...	...	9 10 0	Ton	...	...	
							,, Bolts, nuts, service bolts, &c....	...	0	4	2	9	...	...	12 10 0	,,	...	...	
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	40	5′ 6″ ...	,, ...	Girders, Plate, complete ...	12	9	18	3	20	388	534	109 0 4	Span	20 17	K. B.	
143	25th February 1885 ..	4 of 1885	Sind-Pishin ...	40	,, ...	,, ...	,, Plate, complete	12	9	11	3	21	388	544	110 6 9	,,	18	K.	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK. CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date.	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	DESCRIPTION. Gauge.	DESCRIPTION. Roadway on upper or lower boom.	DESCRIPTION. Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount. £ s. d.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate. s.	Port.	Remarks.
149	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	40	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	76	9	10	3	12	388	581	96 9 4	Span	22	K.	
							Girderwork	...	9	7	2	24	...	...	10 0 0	Ton	...	...	
							Service bolts	...	0	0	3	0	...	...	15 15 0	,,	...	...	
							Hookbolts, &c.	...	0	2	1	16	...	...	16 15 0	,,	...	...	
165	5th November 1885 ...	61 of 1885	Bilaspur-Etawah ...	40	,, ...	...	,, Plate, complete	3	10	1	0	10	388	614	110 12 0	Span	17	B.	
							Girderwork	...	9	16	0	18	...	...	11 0 0	Ton	...	...	
							Bolts and nuts	...	0	2	1	20	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	2	2	0	...	...	18 0 0	,,	...	...	
170	22nd December 1885 ...	36 of 1885	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	30	9	9	0	14	388	625	85 17 6	span	21-3	K.	
							Main girders, covers and bracings. ...		9	3	2	3	...	...	9 0 0	ton	...	...	
							Rivets	...	0	2	1	23	...	...	9 0 0	,,	...	...	
							Service bolts, hookbolts, and washers. ...		0	3	0	16	...	...	13 18 0	,,	...	...	
171	22nd December 1885 ...	,, ...	Sind-Sagar ...	40	,, ...	,, ...	,, Plate, complete	24	9	7	0	11	388	630	92 6 5	Span	32	K	
							Wrought-iron girderwork		9	4	0	17	...	...	9 15 0	Ton	...	...	
							Hookbolts, &c.	...	0	2	1	0	...	...	18 0 0	,,	...	...	
							Service bolts	...	0	0	2	22	...	...	15 0 0	,,	...	...	
155	7th August 1885 ...	2P.R. of 1885	Lucknow-Sitapur	60	Metre ...	Upper ...	Girders, Warren, complete ...	8	17	12	0	14	419	608-9	178 19 6	Span	23-1	B.	
							Wrought-iron girderwork ...	...	16	19	0	0	...	...	10 1 6	Ton	...	...	
							Bolts, nuts, service bolts, &c. ...	...	0	13	0	14	...	...	12 0 10	,,	...	...	
156	Ditto ...	63 of 1885	Cawnpore-Achnera	60	,, ...	,, ...	,, Warren, complete ...	6	18	9	2	2	419	610-1	180 9 3	Span	20	B.	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK. CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	DESCRIPTION. Gauge.	DESCRIPTION. Roadway on upper or lower boom.	DESCRIPTION. Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount. £ s. d.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate. s.	Port.	Remarks.
137	19th January 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section	60	5′ 6″ ...	Upper ...	Girders, Plate, complete ...	4	23	7	3	22	389	535	257 7 5	Span	14-8	B.	
169	9th December 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	60	,, ...	,, ...	ditto	2	40	3	11	10	586	643	425 10 0	,,	20	B.	
142	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	80	5′ 6″ ...	Upper ...	Girders Plate complete ...	1	38	5	0	6	469	570-1	477 7 3	Span	27-6	B.	
							Iron-work	...	36	18	1	6	...	...	12 3 6	Ton	...	...	
							Bolts	...	1	6	3	0	...	...	20 17 6	,,	...	...	
168	2nd December 1885 ...	61 of 1885	Bilaspur-Etawah ...	80	...	Between ...	,, Plate, complete	1	61	13	1	3	585	616-7	707 16 6	Span	20	B.	
							Wrought-iron girderwork ...	...	61	5	3	4	...	...	11 10 0	Ton	...	...	
							Bolts, nuts and washers ...	...	0	4	1	27	...	...	22 0 0	,,	...	...	
							Service bolts, &c. ...	...	0	3	0	0	...	...	18 0 0	,,	...	...	
142	5th February 1885 ...	3 of 1885	Bilaspur-Etawah, Katni-Umaria Section.	100	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	83	15	3	0	471	618 560-1	1,009 9 5	Span	17	B.	
							Wrought-iron girderwork ...	...	83	6	2	21	...	...	12 0 0	Ton	...	...	
							Bolts and nuts	...	0	9	0	7	...	...	20 17 6	,,	...	...	
148	4th April 1885 ...	Telegram, dated 3rd January 1885.	Jhansi-Manikpur ...	100	5′ 6″ ...	Upper ...	,, Warren, complete ...	10	66	6	2	20	515	601-2	701 4 11	Span	21	K.	
							Girderwork	...	65	16	2	21	...	...	10 10 0	Ton	...	...	
							Bolts and nuts	...	0	5	0	2	...	...	20 0 0	,,	...	...	
							Service bolts	...	0	4	3	25	...	...	20 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
													A.	A.	£ s. d.		s.		
150	4th April 1885 ...	Telegram dated 3rd January 1885.	Jhansi-Manickpur	100	5′ 6″ ...	Upper ...	Girders, Warren, complete ...	32	67	0	0	14	515	567-8	758 3 4	Span	21	K.	
							Girderwork	...	66	11	2	18	...	...	11 5 0	Ton	...	...	
							Bolts and nuts	...	0	4	3	24	...	...	24 0 0	,,	...	...	
							Service bolts	...	0	3	2	0	...	...	18 0 0	,,	...	...	
154	21st July 1885 ...	47 of 1885	Sind-Pishin ...	100	,, ...	Between ...	,, Warren, complete ...	8	83	9	2	16	471	618-9	900 7 7	Span	25	K.	
							Wrought-iron Girderwork ...	...	83	0	2	9	...	...	10 15 0	Ton	...	...	
							Bolts and nuts	...	0	4	2	7	...	...	17 5 0	,,	...	...	
							Service bolts	...	0	4	2	0	...	...	17 5 0	,,	...	...	
171	22nd December ...	36 of 1885	Sind-Sagar ...	100	,, ...	,, ...	,, Triangulated, complete ...	2	87	3	0	12	471	638-9	875 3 6	Span	24	K.	As per invoice.
144	25th February 1885 ...	80 of 1884	Eastern Bengal ..	104*	5′ 6″ ...	Between ...	Girders, Plate, complete ...	1	63	2	0	2	500	587	790 7 3	Span	25	C.	*Is the total length.
158	17th September 1885 ...	31 of 1885	Eastern Bengal ...	116	5′ 6″ ...	Between ...	Girders, Plate, complete, curved for double line of rails.	2	72	18	3	23	548	‡	793 6 0	Span†	Not yet received.		† Bearing girders not included. ‡ Drawing not received from India Office.
							Bearing girders	4	5	2	3	2	...	...	55 17 7	Two	24	C.	
136	7th January 1885 ...	37 of 1884	Rajputana-Malwa	§131′-2″	Metre ...	Upper ...	Girders, Whipple Murphy, complete	3	66 (Exclusive bolts.)	5	2 of service	8	494-5	555-7	1,041 6 8	Span	Not known		Invoice and Tonnage and Freight account not received.
							Steel girder work in girders and roadway. ...		63	8	2	0	...	...	15 10 0	Ton	...	...	§ This is the total length.
							Steel in rollers		0	5	2	0	...	...	30 0 0	,,	...	...	
							Cast-iron in bed plates, saddle and knuckle plates. ...		2	6	3	0	...	...	12 0 0	,,	...	...	
							Wrought-iron in roller frames... ...		0	1	3	0	...	...	25 0 0	,,	...	...	
							Bolts, nuts and washers		0	3	0	8	...	...	24 0 0	,,	...	...	
							Service bolts, &c.		Not known.						18 0 0	,,	...	...	

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

Contract. No. A.	Contract. Date.	Number of Indent.	For what railway indented for.	Description. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	Number of India Office drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Entire sea freight per ton to port. Rate.	Port.	Remarks.
													A.	A.	£ s. d.		s.		
140	3rd February 1885 ...	78 of 1885	Assam-Behar ...	150	Metre ...	Between ...	Girders, Triangulated, complete ...	14	96	9	2	10	204-5	590-2	1,135 14 5	Span	25	C.	Details not given in the Invoice.
							Wrought-iron girderwork and forgings ...		...	...	...	...	...	...	12 0 0	Ton			
							Steel		...	...	...	...	...	...	30 0 0	,,			
							Bolts nuts, washers and service bolts ...		...	...	...	...	...	...	18 0 0	,,			
152	10th June 1885 ...	47 of 1885	Sind-Pishin ...	150	5′ 6″ ...	Between ...	Girders, Warren, complete ...	4	150	15	2	20	472-3	603-5	1,717 16 11	Span	17	K.	
							Wrought-iron girderwork ...		145	3	0	5	...	...	11 5 0	Ton			
							Forgings		0	5	3	0	...	...	25 0 0	,,			
							Cast iron work		4	0	2	14	...	...	12 0 0	,,			
							Steel rollers		0	10	3	0	...	...	25 0 0	,,			
							Bolts and nuts		0	8	2	0	...	...	24 0 0	,,			
							Service bolts		0	7	0	1	...	...	18 0 0	,,			
162	12th October 1885 ...	6 of 1885	Kanhan Bridge, Nagpur-Chhattisgarh.	170	5′ 6″ ...	Between ...	Girders, Whipple Murphy, complete	6	164	9	0	23	572-3	...	1,994 10 9	Span	...	...	Girder not yet received.
							Steel work in girders, bracings, curbs, &c. ...		...	...	...	...	...	...	12 0 0	Ton			
							Steel in corrugated Floor Plates ...		...	...	...	...	...	...	12 0 0	,,			
							Steel in rollers		...	...	...	...	...	...	34 10 0	,,			
							Cast iron in bed plates, saddle and knuckle plates. ...		...	...	...	...	...	...	9 10 0	,,			
							Wrought-iron in roller frames ...		...	...	...	...	...	...	18 0 0	,,			
							Bolts, nuts, washers and coach screw ...		...	...	...	...	...	...	16 0 0	,,			
							Service bolts, &c.		...	...	...	...	...	...	14 0 0	,,			

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date.	Number of indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	DESCRIPTION. Gauge.	DESCRIPTION. Roadway on upper or lower boom.	DESCRIPTION. Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	NUMBER OF INDIA OFFICE DRAWINGS. Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount.	CONTRACT RATE F. O. B. IN ENGLAND. Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	ENTIRE SEA FREIGHT PER TON TO PORT. Port.	Remarks.
163	21st October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	Between ...	Girders, Triangulated, complete ...	4	312	11	3	14	A 575-7	A. 626-9 and photo.	£ s. d. 3,990 15 6	Span	s. 19-6	C.	
							Subsequently paid to the contractors for riveting flange plates to booms.	...	...	...	...	...	...	...	49 10 0	,,			
															4,040 5 6				
164	23rd October 1885 ...	97 of 1884	Gunduk Bridge ...	250	Metre ...	,, ...	,, Triangulated, complete	4	314	5	3	20	575-7	Photos.	3,946 4 5	Span	17	C.	
							Steel in girders bracings, loose rivets, &c.	...	206	17	1	0	...		12 15 0	Ton	...		
							Steel in connecting plates ...	...	1	7	2	0	...	...	12 15 0	,,	...		
							Wrought-iron in floor plates, tees, overhead, cross and rail girders diaphragms, &c., angle bar, rail guard, cantilevers, &c. ...	...	85	17	0	7	...	...	11 15 0	,,	...		
							Steel in rollers and knuckles ...	...	2	18	1	0	...	...	22 10 0	,,	...		
							Cast-iron in bed, saddle and kunckle plates.	...	13	7	2	0	...	...	11 0 0	,,	...		
							Wrought-iron in roller frames ...	...	0	11	3	0	...	...	20 10 0	,,	...		
							Bolts, nuts, &c.	...	1	0	2	27	...	...	18 0 0	,,	...		
							Service bits	...	2	5	3	14	...	...	17 0 0	,,	...		
146	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″	Between ...	Steel and iron work for two cantilevers each 310′ long.	...	2,876	16	0	0	437-55	Photos.	98,806 9 5	Total	Contract not yet completed.		The Central girder span (of 200 feet) connecting these two cantilevers is not included in this contract. Separate contract will be let for this span.
							The weights of the steel and iron work in the different parts of each cantilever are as follow :—												
							Summary of Bukkur Cantilever.												
							No. I Struts (steel)	...	17	5	0	10							For detailed rates per ton, see Appendix A.
							No. II Struts (steel)	...	44	3	3	12							
							No. III Struts (steel)	...	220	1	0	12							
							No. III Struts (wrought-iron) ...	...	1	16	2	16							

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT. No. A.	CONTRACT. Date.	Number of indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	DESCRIPTION. Gauge.	DESCRIPTION. Roadway on upper or lower boom.	DESCRIPTION. Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	NUMBER OF INDIA OFFICE DRAWINGS. Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount.	CONTRACT RATE F. O. B. IN ENGLAND. Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	ENTIRE SEA FREIGHT PER TON TO PORT. Port.	Remarks.
146—contd.	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	*Summary of Bukkur Cantilever—contd.*		Tons.	cwt.	qrs.	lbs.	A.	A.	£ s. d.		*		
							Large pillars (steel)		166	11	1	12							For detailed rates per ton, see Appendix A.
							Large pillars (wrought-iron)		1	16	2	16							
							Small pillars (steel)		6	16	1	17							
							No. IV Struts (steel)		7	5	2	26							
							Inclined tie (steel)		76	18	1	14							
							Horizontal tie (steel)		76	14	2	24							
							Connections at ends of ditto		9	10	0	17							
							Secondary tie (steel)		6	6	0	10							
							Guys (steel)		200	5	1	22							
							No. I supports for Guys (steel) ...	...	6	9	0	24							
							Foundation bolts and washers (wrought-iron).	...	0	14	0	15							
							No. II supports for Guys (steel) ...	...	6	8	0	10							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							No. III supports for Guys (steel)	...	13	1	2	16							
							Foundation bolts and washers (wrought-iron).	...	0	2	0	3							
							Anchors (steel)	...	29	15	2	18							
							Booms (steel)	...	147	19	2	14							
							No. I Vertical and Raker (steel) ...	...	4	6	0	17							
							No. II Vertical (steel)	...	3	18	2	15							
							No. III Vertical and Raker (steel)	...	14	6	1								
							No. II Vertical and Raker (steel)	...	58	12	0	6							

INDIAN STATE RAILWAYS.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

CONTRACT. No. A.	CONTRACT. Date.	Number of indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons.	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	Port.	Remarks.
146—*contd.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between	*Summary of Bukkur Cantilever—concld.*		Tons.	cwt.	qrs.	lbs.	A.	A.	£ s. d.		s.		
							Large bed plates (steel) ...	...	49	15	2	10							For detailed rates per ton, see Appendix A.
							Foundation bolts and washer plates (wrought-iron).	...	5	9	0	22							
							Small bed plates (steel) ...	...	3	17	0	24							
							Foundation bolts and washers (wrought iron).	...	0	7	0	14							
							Trimmers (steel)	...	73	11	1	14							
							Bed plates and bolts for trimmers (wrought-iron).	...	0	2	3	2							
							Trusses under trimmers (steel) ...	...	12	15	0	20							
							Distance girders (steel) ...	...	19	18	2	13							
							Wind ties (steel)	...	19	6	2	5							
							Cross girders (steel)	...	30	15	2	4							
							Roadway—												
							Corrugated plates (steel) ...	...	30	3	0	5							
							Road beams curbs, &c., (steel)	...	43	0	2	22							
							Bolts, screws &c. (wrought-iron)	...	2	3	0	6							
							Hand railing (steel)	...	10	2	0	18							
							Bolts, screws, &c., (wrought-iron)	...	0	11	2	8							
							Hand rail standards (steel) ...	...	6	18	1	26							
							Total steel and iron in cantilever on Bukkur side of Pass.	...	1,430	5	1	9							
							NOTE—This total is made up of—												
							Steel ...	...	1,417	0	0	16							
							Wrought-iron ...	...	13	5	0	21							
								...	1,430	5	1	9							

INDIAN STATE RAILWAYS.

CLASS A—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CLASS A.—IRON BRIDGE-WORK.

CONTRACT. No. A.	CONTRACT. Date.	Number of Indent.	For what railway indented for.	DESCRIPTION. Feet, Clear.	Gauge.	Roadway on upper or lower boom.	Detail.	Number of spans contracted for.	Weight of each span. Tons	cwt.	qrs.	lbs.	NUMBER OF INDIA OFFICE DRAWINGS. Original.	Completion.	CONTRACT RATE F. O. B. IN ENGLAND. Amount.	Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	Port.	Remarks.
146—*contd.*	27th February 1885 ...	36 of 1883	Sukkur Bridge ...	790	5′ 6″ ...	Between ...	*Summary of Haji Motu Cantilever.*		Tons	cwt.	qrs.	lbs.	A.	A.	£ s. d.		s.		For detailed rates per ton, see Appendix A.
							Steel as in Bukkur Cantilever ...	...	1,417	0	0	16							
							Iron as in ditto	...	13	5	0	21							
							Additional Steel in Guy of Haji Motu Cantilever.	...	16	5	1	10							
							Total steel and iron in Cantilever on Haji Motu side of Pass.	...	1,446	10	2	19							
							Total quantities in two cantilevers—												
							Total steel and iron in Bukkur Cantilever.	...	1,430	5	1	9							
							Total steel and iron in Haji Motu Cantilever.	...	1,446	10	2	19							
							Grand Total ...	...	2,876	16	0	0							

CLASS A.—IRON BRIDGE-WORK.

INDIAN STATE RAILWAYS.

CLASS A.—IRON BRIDGE-WORK.

Statement showing the cost of Bridge-work contracted for by the India Office from January to December 1885.

CONTRACT.			QUANTITY CONTRACTED FOR.				NUMBER OF INDIA OFFICE DRAWINGS.		CONTRACT RATE F. O. B. IN ENGLAND			ENTIRE SEA FREIGHT PER TON TO PORT.		Remarks.
No.	Date.	For what railway indented for.	Number of Indent.	Number.	Weight.				Amount.	Unit.	Rate.	Port.		
A.					Tons.	cwt.	qrs.	lbs.	Original.	Completion.	£ s. d.		s.	
151	30th April 1885	Rajputana-Malwa, Metre gauge.	108 of 1884	...	...	...	...	...	...	...	...			
					2	0	0	0	...	...	15 17 6	Ton	15	B.
		Ditto screwed for lengths of 4 inches		...	1	0	0	0	...	..	15 17 6	,,	...	,,
161	12th October 1885	Indus Valley, 5′ 6″ gauge	39 of 1885	...	2	5	1	3	...	...	17 0 0	,,	17-6	K.
		Hook bolts 8½″ × ¾″ diameter with nuts and washers.		2,000										
159	17th September 1885	Eastern Bengal, 5′ 6″ gauge	31 of 1885	...	...	...	...	...	...	...	...			
		Piers, wrought iron, for bridges, broad gauge :—												
		Cast iron cylinders, top lengths marked A.		14	4	19	0	0	551	612	5 15 0	Ton	20	C.
		Covers for ditto		14	3	13	0	0	...	...	5 15 0	,,	,,	,,
		Cast iron cylinders, intermediate lengths marked C.		56	55	10	0	0	...	...	5 15 0	,,	,,	,,

NOTE.—B.—Bombay; C.—Calcutta; K.—Karachi; M.—Madras; R.—Rangoon.
For rates for landing State Railway Stores, see Director General of Railways' Circular No. 22, dated 16th December 1885.

G. F. WILSON, Captain, R.E.,
for Director General.

Accompaniment to Director General of Railways' Circular No. 12 of 1886.

Rate list class A—Iron Bridge-work.

Appendix A.

(Detailed rates of Iron and Steel work in Sukkur Bridge Cantilevers. Contract No. A. 146.)

Description of Work.		RATE DELIVERED FREE ALONG SIDE IN THE	
		Port of London.	Port of Liverpool or Birkenhead.
		£ s. d.	£ s. d.
For all Steelwork in Booms	per ton	34 5 0	35 15 0
Ditto in Inclined Ties and Bracing	,,	39 5 0	40 15 0
Ditto in Horizontal Ties and Bracing	,,	39 5 0	
Ditto in Guys and Bracing	,,	24 5 0	25 15 0
Ditto in Anchors	,,	24 5 0	
Ditto in Bed Plates	,,	30 0 0	31 10 0
Ditto in Pillars and No. 3 Struts	,,	39 5 0	40 15 0
Ditto in No. 2 Struts and Bracing	,,	39 5 0	
Ditto in No. 1 Struts	,,	39 5 0	
Ditto in Verticals and Rakers	,,	39 5 0	
Ditto in Trimmers	,,		
Ditto in Cross and Distance Girders	,,	34 5 0	35 15 0
Ditto in Road Beams and Curbs	,,		
Ditto in Corrugated Floor Plates	,,	19 0 0	20 10 0
Ditto in other portions	,,	34 5 0	35 15 0
For all Plate Ironwork	,,	24 5 0	25 15 0
For all Iron Bars	,,	24 5 0	25 15 0
For all Wrought Iron in Tubes	,,	39 5 0	40 15 0
For all Bolts, Nuts, and Washers	,,	25 0 0	26 10 0
For all Coach and Wood Screws	,,	35 0 0	36 10 0
For Spike Nails	,,	35 0 0	
For Service Bolts, &c.	,,	18 0 0	19 0 0

Note.—All the above prices include Rivets and Spare Rivets.

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