(1) பக்கங்களின் எண்ணிக்கை 18

(2) புதுக்கித் திருப்பிய நாள் OCT 1990

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

(191)

தமிழ்நாடு அரசு

P. W. D. துறை

அரசாணை எண். / மு. கோப்புத் தாள் எண். 2301	அச்சகம் பலவகை
நாள் : 26-8-1891	198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

Sheets

ஆவண. கா-1—18,000—15-6-87.

2301
1

Enclosure to Director General of Railways' Circular No. 11 of 1890.

RATE LIST.

CLASS A.

IRON BRIDGEWORK

FOR 1890.

Statement shewing the average rates per ton for entire Sea Freight on Iron Bridgework sent out from England to the several ports in India for State Railways of both gauges during 1890.

Description of girders.	Bombay.	Calcutta.	Karachi.	Rangoon.	Remarks.
	s. d.	s. d.	s. d.	s. d.	
Clear span 6 feet	...	13 0	...	...	Where rates have not been quoted, it should be understood that girders of the dimensions specified, were not imported during the year.
„ 10 „	...	13 0	...	...	
„ 12 „	...	13 0	...	...	
„ 20 „	...	17 8	...	35 0	
„ 40 „	...	23 4	30 0	...	
„ 60 „	...	...	...	...	
„ 100 „	...	...	...	35 0	
„ 150 „	...	...	...	...	
„ 200 „	...	...	...	...	

CLASS OF STORES. A.—IRON BRIDGEWORK.

5′ 6″ GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount £	s.	d.	Cult.	Remarks.
		Ft.												
4077	4-11-90	6	5′ 6″	Upper ...	Girders, plate, complete	0	17	2	2	9	16	7	Span.	
					For all steel in girder work including rivets, rivet rods, and spare rivets.	0	16	3	14	10	12	6	Ton.	
					For all bolts, nuts, and washers, except service bolts	0	0	2	3	28	0	0	„	
					For all service bolts, nuts, and washers	0	0	0	7	16	0	0	„	
4077	4-11-90	12	„	„ ...	Girders, plate, complete	1	11	3	20	17	14	8	Span	
					For all steel in girder work, including rivets, rivet rods, and spare rivets	1	11	0	0	10	12	6	Ton.	
					For all bolts, nuts, and washers, except service bolts	0	0	3	13	28	0	0	„	
					For all service bolts, nuts, and washers	0	0	0	7	16	0	0	„	
4077	4-11-90	20	„	„ ...	Girders, plate, complete	3	8	3	24	37	17	7	Span	
					For all steel in girder work, including rivets, rivet rods, and spare rivets	3	7	1	27	10	12	6	Ton.	
					For all bolts, nuts, and washers, except service bolts	0	1	1	18	28	0	0	„	
					For all service bolts, nuts and washers	0	0	0	7	16	0	0	„	
4058	31-10-90	39	„	„ ...	Girders, plate, complete	8	12	2	6	105	12	6	Span.	For Mulir Bridge, North-Western Railway.
					For all steel in girder work, including rivets and spare rivets ...	8	10	2	6	12	2	6	Ton.	
					For all bolts, nuts and washers, except service bolts	0	2	0	6	22	0	0	„	
					For all service bolts, nuts and washers									

CLASS OF STORES. A.—IRON BRIDGEWORK—*contd.*

5′ 6″ GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Ft.												
4075	3-11-90	40	5′ 6″	Upper ...	Girders, plate, complete	9	1	2	19	104	13	6	Span.	
					For all steel and girder work, including rivets, rivet rods, and spare rivets	8	18	3	18	11	7	0	Ton.	
					For all bolts, nuts, and washers, except service bolts	0	2	2	8	21	2	6	„	
					For all service bolts, nuts, and washers	0	0	0	21					
4192	16-12-90	40	„	„ ...	Girders, plate, complete	16	3	3	18	182	2	4	Span.	
					For all steel in girder work, including rivets, spare rivets, and rivet rods	16	0	0	0	11	2	0	Ton.	
					For all galvanized hook bolts, nuts, and washers	0	2	1	18	1	14	4½	Cwt.	
					For all service bolts, &c.	0	1	2	0	0	18	4½	„	
3402	5-1-90	43′ 8″	„	„ ...	Girders, plate, complete	11	4	1	21	165	0	1	Span.	
					For all steel in girder work, including rivets, rivet rods, and spare rivets.	11	1	0	0	14	10	0	Ton.	
					For all bolts, nuts, and washers, (*Hook bolts*)	0	2	3	21	30	0	0	„	
					For all service bolts, nuts and washers	0	0	3	0	20	0	0	„	
3808	2-9-90	43′ 8″	„	„ ...	Girders, plate, complete	11	4	1	21	165	0	0	Span.	
					For all steel in girder work, including rivets, rivet rods, and spare rivets.	11	1	0	0	14	10	0	Ton.	
					For all bolts, nuts and washers, except service bolts	0	2	2	21	30	0	0	„	
					For all service bolts, nuts, and washers	0	0	3	0	20	0	0	„	

CLASS OF STORES. A.—IRON BRIDGEWORK—*contd.*

5′ 6″ GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Ft.												
4058	31-10-90	47 (over all)	5′ 6″	Upper ...	Girders, plate, complete	11	5	3	16	138	3	0	Span.	For Malir Bridge, North-Western Railway.
					For all steel in girder work, including rivets, and spare rivets ...	11	3	2	0	12	2	6	Ton.	
					For all bolts, nuts, and washers, except service bolts	0	0	3	16	22	0	0	„	
					For all service bolts, nuts and washers	0	1	2	0					
4075	3-11-90	60	„	„ ...	Girders, plate, complete	23	18	1	14	276	6	5	Span.	
					For all steel in girder work, including rivets, rivet rods, and spare rivets	23	9	2	20	11	7	6	Ton.	
					For all bolts, nuts and washers, except service bolts	0	7	0	22	21	2	6	„	
					For all service bolts, nuts and washers	0	1	2	0					
4184	6-12-90	60	„	„ ...	Girders, plate, complete	23	18	1	14	304	6	5	Span.	
					For all steel in girder work including rivets, rivet rods, and spare rivets	28	9	2	20	12	10	0	Ton.	
					For all bolts and nuts, and washers, except service bolts ...	0	7	0	22	25	2	0	„	
					For all service bolts, nuts and washers	0	1	2	0	22	2	0	„	

CLASS OF STORES. A.—IRON BRIDGEWORK—*contd.*

5′ 6″ GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Ft.												
4058	31-10-90	81′ 5″ (centres)	5′ 6″	Upper ...	Girders, triangulated, complete	27	6	1	10	337	15	0	Span.	For Malir Bridge, North-Western Railway.
					For all steel in girder work, including rivets, and rivet rods, and spare rivets.	27	0	0	0	12	5	0	Ton.	
					For all bolts, nuts and washers, except service bolts	0	3	1	10	22	0	0	,,	
					For all service bolts, nuts and washers	0	3	0	0					
3402	5-4-90	86 (over all)	,,	,,	Girders, plate, complete	48	11	1	14	669	6	8	Span.	
					For all steel in girder work, including rivets, rivet rods, and spare rivets	48	7	1	0	13	15	0	Ton.	
					For all bolts, nuts and washers, except service bolts, *Foundation bolts*	0	1	0	14	24	0	0	,,	
					For all service bolts, nuts and washers	0	3	0	0	20	0	0	,,	
4196	19-12-90	100	5′ 6″	Between	Girders, triangulated, complete	70	19	3	0	813	13	8	Span.	
					For all steel in girder work, including rivets, spare rivets, and rivet rods.	70	12	3	0	11	8	6	Ton.	
					For all steel in bolts and nuts	0	2	3	0	19	7	0	,,	
					For all wrought-iron or steel in service bolts, nuts and washers ...	0	1	2	0	15	7	0	,,	

CLASS OF STORES. A.—IRON BRIDGEWORK—*contd.*

5′ 6″ GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
					Alterations in Alexandra Bridge over the Chenab River which consists of 28 spans of 40 metres in the clear.									
		Metres												
3710	12-7-90	40	5′ 6″	Between	*Supposed quantities required for span—*									
					13 ordinary cross girders, and cantilevers	19	6	2	0					The alterations required for new cross girders with cantilevers to carry foot ways and with connections to the main girders; and new longitudinal rail girders and hand-railings.
					2 end cross girders and cantilevers	2	16	0	0					
					26 sets of suspending apparatus	0	3	1	0					
					Rail girders	12	3	3	0					
					Outer handrails (exclusive of wire rope)	2	13	3	0					
					Rivet heads, spare rivets, and rivet rods	3	11	3	0					
					Total weight of steel required for alteration of one span, exclusive of wire ropes.	45	15	0	0	11	3	0	Ton.	Exclusive of wire ropes.
					Bed plates and bearing girders only.									
4058	31-10-90	5′ 6″	...	...	For each bed plate 6 ft. 3 in. long	0	6	0	8	3	13	7	Each.	For Malir Bridge, North-Western Railway.
					For all steel in bed plates, including rivets...					12	2	6	Ton.	
					For each bed plate 2 ft. 6 in. long	0	2	1	18	1	9	3	Each.	
					For all steel in bed plates, including rivets					12	2	6	Ton.	
					For each bearing girder	4	17	3	6	59	6	0	Each.	
					For all steel in bearing girders, including rivets					12	2	6	Ton.	

CLASS OF STORES. A.—IRON BRIDGEWORK—*contd.*

METRE GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span.				Rate—Free on Board. Amount.			Unit.	Remarks.
		Ft.				Tons.	cwt.	qr.	lbs.	£	s.	d.		
3604	23-6-90	6	Metre	Upper ...	Girders, plate, complete	0	16	2	22	6	7	4	Span.	
					For all steel in girder work, including rivets and spare rivets ...	0	8	2	14	11	0	0	Ton.	
					For all bolts and nuts, except service bolts	0	0	2	8	20	0	0	,,	
					For all service bolts, nuts and washers	0	0	1	0	20	0	0	,,	
,,	,,	10	,,	,,	... Girders, plate, complete	0	18	3	17	11	0	6	Span.	
					For all steel in girder work, including rivets and spare rivets ...	0	17	2	0	11	0	0	Ton.	
					For all bolts and nuts, except service bolts	0	1	0	24	20	0	0	,,	
					For all service bolts, nuts and washers	0	0	0	21	20	0	0	,,	
					Girders, plate, complete	1	2	2	21	14	12	9	Span.	
					For all steel in girder work, including rivets and spare rivets ...	1	1	1	24	12	4	0	Ton.	
					For all bolts, nuts, and washers, except service bolts	0	1	0	18	25	0	0	,,	
					For all service bolts, nuts and washers	0	0	0	7					

CLASS OF STORES. A.—IRON BRIDGEWORK—*contd.*

METRE GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span.				Rate—Free on Board. Amount.			Unit.	Remarks.
		Ft.				Tons.	cwt.	qr.	lbs.	£	s.	d.		
3604	23-6-90	12	Metre.	Upper ..	Girders, plate, complete	1	4	3	0	14	6	3	Span.	
					For all steel in girder work, including rivets, and spare rivets ...	1	3	0	22	11	0	0	Ton.	
					For all bolts and nuts, except service bolts	0	1	1	13	20	0	0	,,	
					For all service bolts, nuts, and washers	0	0	0	21	20	0	0	,,	
						2	10	2	0	28	16	3	Span.	
,,	,,	20	,,	,,	... Girders, plate, complete	2	8	0	21	11	0	0	Ton.	
					For all steel in girder work, including rivets, and spare rivets ...	0	2	0	14	20	0	0	,,	
					For all bolts and nuts, except service bolts	0	0	0	21	20	0	0	,,	
					For all service bolts, nuts and washers									
4076	4-11-90	20	,,	,,	... Girders, plate, complete	2	18	0	19	38	1	0	Span.	
					For all steel in girder work, including rivets and spare rivets ...	2	16	0	8	12	12	6	Ton.	
					For all bolts, nuts and washers, except service bolts	0	2	0	4	25	0	0	,,	
					For all service bolts, nuts and washers	0	0	0	7					

CLASS OF STORES. A.—IRON BRIDGEWORK—*contd.*

METRE GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Ft.												
3604	23-6-90	40	Metre	Upper ...	Girders, plate, complete	7	2	1	21	21	0	10	Span.	
					For all steel in girder work, including rivets, and spare rivets ...	7	6	1	9	12	10	0	Ton.	
					For all bolts, and nuts, except service bolts	0	8	3	22	20	0	0	,,	
					For all service bolts, nuts, and washers	0	0	0	21	20	0	0	,,	
3156	3-1-90	40	,,	,,	... Girders, plate, complete	3	15	2	0	112	2	7	Span.	
					For all steel and iron in girder work, including rivets, spare rivets, and rivet rods	8	10	2	0	12	12	6	Ton.	
					For all steel in bolts, and nuts	0	4	1	0	18	0	0	,,	
					For all wrought iron in service bolts, nuts and washers ...	0	0	3	0	15	0	0	,,	
4076	4-11-90	40	,,	,,	... Girders, plate, complete	0	1	3	13	127	8	6	Span.	
					For all steel in girder work, including rivets, and spare rivets ...	8	17	2	13	13	15	0	Ton.	
					For all bolts, nuts, and washers, except service bolts	0	2	2	0	25	0	0	,,	
					For all service bolts, nuts, and washers	0	0	3	0					
3157	3-1-90	100	,,	Between ...	Girders, triangulated, complete	71	11	2	5	999	16	9	Span.	
					For all steel and iron in girder work including rivets, and spare rivets	Steel ... 67	6	2	0	12	17	6	Ton.	
						Iron ... 0	9	1	0	13	0	0	,,	

CLASS OF STORES. A.—IRON BRIDGEWORK—*concld.*

METRE GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Ft.												
3157	3-1-90	100	Metre	Between ...	For all cast iron in bed plates	2	11	3	0	12	0	0	To	
					For all steel in expansion rollers	0	7	0	0	32	0	0	,,	
					For all wrought-iron in roller frames	0	3	1	0	30	0	0	,,	
					For all steel in bolts and nuts ... ... { Turned bolts ...	0	1	0	23	28	0	0	,,	
					{ Plain ,, ...	0	8	0	10	18	0	0	,,	
					For all wrought-iron in service bolts, nuts and washers ...	0	4	2	0	18	0	0	,,	
3756	2-8-90	109′ 6″	Metre	Between ...	Girders, triangulated, complete	81	0	3	7	1,035	13	0	Span.	
					For all steel in girder work, including rivets, and spare rivets ...	80	13	0	0	12	15	0	Ton.	
					For all steel in bolts and nuts	0	3	1	7	20	0	0	,,	
					For all wrought-iron or steel, in service bolts, nuts and washers ...	0	4	2	0	18	0	0	,,	

[*For General Distribution.*]

2301/86

Circular No. 11.

From

THE DIRECTOR GENERAL OF RAILWAYS,

To

THE MANAGER, NORTH WESTERN RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND RAILWAY.
THE SUPERINTENDENT OF WORKS, CHAMAN EXTENSION.
THE SUPERINTENDENT OF WORKS, HYDERABAD-UMARKOT RAILWAY.
THE ENGINEER-IN-CHIEF, EAST-COAST RAILWAY.
THE ENGINEER-IN-CHIEF, KISTNA BRIDGE.
THE ENGINEER-IN-CHIEF, MU VALLEY RAILWAY.
THE ENGINEER-IN-CHIEF, MOGHAL SERAI-HOWRAH RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, MOGHAL SERAI-DALTONGUNGE SECTION OF THE MOGHAL SERAI-HOWRAH RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, FRONTIER RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, KASHMIR RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, ZHOB VALLEY RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, JEYPORE-CHUMBAL RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, GOONA-BINA RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, UJAIN-BHOPAL RAILWAY SURVEY.
THE PORT STOREKEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Rate List, Class A.—Iron Bridgework for 1890

Simla, the 26th June 1891.

SIR,

I have the honour to forward herewith, for information and guidance, a printed statement showing the actual English rates, *free on board* in England, for A. Class, State Railway Stores, *viz.*, "Iron Bridgework," contracted for by the Stores Department of the India Office during the year 1890.

2. A statement showing the average rates per ton for entire sea freight, on Iron Bridgework sent out from England to the several ports in India during 1890, is prefixed to the Rate List.

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

I have the honour to be,

SIR,

Your most obedient Servant,

R. A. SARGEAUNT, Lieut.-Col., R.E.,
Offg. Director General of Railways.

8

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

Lieut.-Col. R.T.
Offg. Director General of Railways.

To The Joint Secretary to the Govt of Madras (Railway Branch)
Public Works Department

FROM

THE DIRECTOR GENERAL
OF RAILWAYS.

To

Circular No. 11.

Dated Simla, 26th June 1891.

Received

RATE LIST, CLASS A.

Iron Bridgework for 1890.

G. C. Press, Simla.—No. 1587 P. W. D.—6-7-91—1,160.