(1) பக்கங்களின் எண்ணிக்கை 72

(2) புதுக்கித் திருப்பிய நாள் 05.89

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் [illegible]

தமிழ்நாடு ஆவணக் காப்பகம்.

(26) தமிழ்நாடு அரசு

P.W.D துறை

அரசாணை எண். மு. கோப்புத் தாள் எண். 983	அச்சகம் பலவகை
நாள் : 5-4-1889	198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

36 ✓ 257

37 Sheets

இவண. அர-1—18,000—15-6-87.

Enclosure to Director General of Railways' Circular No. 2 of 1889.

983

RATE LIST.

CLASS A.

IRON BRIDGEWORK.

FOR 1887.

983

Enclosure to Director General of Railways' Circular No. 2 of 1889.

RATE LIST.

CLASS A.

IRON BRIDGEWORK.

FOR 1887.

2

Enclosure to Director General of Railways' Circular No. 2 of 1889.

Statement shewing the latest average rates per ton for sea-freight on Bridgework sent out from England to the several ports in India for State Railways of both gauges.

Description of girders.	Port of Bombay.	Port of Calcutta.	Port of Kurrachee.	Port of Rangoon.	Remarks.
	s. d.	*s. d.*	*s. d.*	*s. d.*	
Clear span 6 feet	26 3	...	25 0	...	
„ 10 „	...	...	30 0	37 6	
„ 12 „	26 3	...	26 8	...	
„ 20 „	35 0	26 3	29 2	35 0	
„ 40 „	50 0	32 6	30 8	28 2	
„ 60 „	40 0	28 0	31 3	25 0	
„ 100 „	...	...	...	27 6	
„ 150 „	...	...	20 7	33 4	
„ 200 „	...	...	30 0	...	

NOTE.—It will be observed that freights vary greatly according to the state of the Freight market.—This table has been drawn up merely as a rough guide, from which it may be seen within what limits freights have varied during the past twelve months.

DATED SIMLA;
The 25th February 1889.

E. H. STONE,
for Director General of Railways.

Enclosure to Director General of Railways' Circular No. 2 of 1889.

CLASS OF STORES A.—IRON BRIDGEWORK.

For 5′ 6″ Gauge Railways.

Contracted for in 1887.

Contract Number.	Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. T.	c.	qr.	lbs.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
516	12 feet ...	5′ 6″ ...	Upper	Girders, plate, complete	1	10	1	2	13	13	6	Span.	
				For wrought iron work	1	10	0	9	8	15	0	Ton.	
				„ bolts, nuts and washers	0	0	0	21	18	0	0	„	
				„ service bolts, &c.					16	0	0	„	
516	20 feet ...	5′ 6″ ...	Upper	Girders, plate, complete	3	5	1	25	29	14	0	Span.	
				For wrought iron work	3	3	3	20	8	17	6	Ton.	
				„ bolts, nuts and washers	0	1	1	12	18	0	0	„	
				„ service bolts, &c.	0	0	0	21	16	0	0	„	
A195	40 feet ...	5′ 6″ ...	Lower	Girders, plate, complete, with cross girders, rail girders, &c., main girders to be 44 feet in length	15	13	2	5	141	2	0	Span.	
				For wrought iron work	15	12	0	5	9	0	0	Ton.	
				„ bolts, nuts and washers	0	1	2	0					
				„ service bolts, &c.									
516	40 feet ...	5′ 6″ ...	Upper	Girders, plate, complete	9	19	1	10	92	5	9	Span.	
				For wrought iron work	9	16	0	18	9	2	6	Ton.	
				„ bolts, nuts and washers	0	2	1	10	18	0	0	„	
				„ service bolts, &c.	0	0	3	0	16	0	0	„	

CLASS OF STORES A.—IRON BRIDGEWORK.

For 5′ 6″ Gauge Railways—*concld.*

Contracted for in 1887.

Contract Number.	Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. T.	c.	qr.	lbs.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
516	60 feet ...	5′ 6″ ...	Upper, cart road at rail level.	Girders, plate, complete	23	10	2	21	222	0	9	Span.	
				For wrought iron work	22	19	2	13	9	5	0	Ton.	
				„ bolts, nuts and washers	0	6	0	8	18	0	0	„	
				„ service bolts, &c.	0	5	0	0	16	0	0	„	
195	...	5′ 6″ ...	...	*Tension bars, &c., between large bed plates*—(Sukkur Bridge).									
				20 Flat bars 4″ × ⅞″ with eye at each end bored out for 3″ diameter bolts	0	54	2	16	1	10	0	Cwt.	
				5 Flat bars 4″ × 1¾″ ditto	0	22	1	8	1	10	0	„	
				2 Flat bars 8″ × 1″ with 3½″ diameter screwed bar at one end	0	8	3	20	4	4	0	„	
				2 Flat bars attached to L. B. P.	0	6	3	8	1	0	0	„	
				4 Flat bars 8″ × ⅝″	0	8	3	0	1	0	0	„	
				10 Round bars 3″ diameter screwed at one end with eye at other	0	41	2	2	1	10	0	„	
				10 Nuts for screwed ends 3½″ diameter	0	1	3	14	1	10	0	„	
				10 Turned bolts and nuts 3″ diameter...	0	2	1	8	2	0	0	„	
				10 Ditto ditto 3″ „	0	2	0	16	2	0	0	„	
				1 Screw coupling	0	0	3	6	5	12	0	„	
				2 Cast iron washers to take 2 bolts	0	7	0	16	1	0	0	„	
				6 Ditto 1 „	0	9	3	12	1	0	0	„	
				20 Bore out 20 holes, 4″ diameter, through 1½″ steel plates in yard				0	10	0	Each		
				4 Bore out 4 holes 4″ diameter in small pillars				0	3	6	„		
				1 Cutaway 6′ × 6″ × ½ A. S. on end plate of large bed plates.				0	2	6	„		
A 190	...	5′ 6″	...	*Hook bolts for holding down sleepers.*									
				Galvanized hook bolts, nuts and washers, No. 7,000. Each bolt with its nut and washer to weigh 2·9 lb. before galvanizing.	9	3	3	24	16	7	6	Ton.	

CLASS OF STORES A.—IRON BRIDGEWORK.

For Metre Gauge Railways.

Contracted for in 1887.

Contract Number.	Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. T.	c.	qr.	lbs.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
466	6 feet ...	Metre ...	Upper	Girders, plate, complete	0	10	2	19	5	0	0	Span.	
				For wrought iron work	0	9	2	14	8	10	0	Ton.	
				„ bolts, nuts and washers	0	1	0	5	16	0	0	„	
				„ service bolts, &c.									
A 192	10 feet ...	Metre ...	Upper	Girders, plate, complete	0	18	3	13	8	7	9	Span.	
				For wrought iron work	0	17	2	0	8	5	0	Ton.	
				„ bolts, nuts and washers	0	1	0	20	16	0	0	„	
				„ service bolts, &c.	0	0	0	21	14	0	0	„	
16	10 feet ...	Metre ...	Upper with military road.	Girders, plate, complete, road at rail level to carry horses and artillery	2	14	3	23	22	18	6	Span.	
				For wrought iron work	2	11	0	17	8	5	0	Ton.	
				„ bolts, nuts and washers	0	3	3	6	20	0	0	„	
				„ service bolts, &c.									
466	12 feet ...	Metre ...	Upper	Girders, plate, complete	1	4	2	24	11	1	6	Span.	
				For wrought iron work	1	3	0	22	8	10	0	Ton.	
				„ bolts, nuts and washers	0	1	2	2	16	0	0	„	
				„ service bolts, &c.									

CLASS OF STORES A.—IRON BRIDGEWORK.

FOR METRE GAUGE RAILWAYS—*contd.*

Contracted for in 1887.

Contract Number.	Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. T.	c.	qr.	lbs.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
A 192	20 feet ...	Metre ...	Upper	Girders, plate, complete	2	10	1	20	22	2	6	Span.	
				For wrought iron work	2	8	0	20	8	7	6	Ton.	
				„ bolts, nuts and washers	0	2	0	7	16	0	0	„	
				„ service bolts, &c.	0	0	0	21	14	0	0	„	
A 197	20 feet ...	Metre ...	Upper	Girders, plate, complete	2	10	1	20	20	1	0	Span.	
				For wrought iron work	2	8	0	20	7	15	0	Ton.	
				„ bolts, nuts and washers	0	2	1	0	12	0	0	„	
				„ service bolts, &c.									
16	20 feet ...	Metre ...	Upper with military road.	Girders, plate, complete, road at rail level to carry horses and artillery	6	0	1	14	51	1	6	Span.	
				For wrought iron work	5	12	0	12	8	7	6	Ton.	
				„ bolts, nuts and washers	0	8	1	2	20	0	0	„	
				„ service bolts, &c.									
457	20 feet ...	Metre ...	Upper	Girders, plate, complete	2	10	1	20	21	1	1	Span.	
				For wrought iron work	2	8	0	20	8	15	0	Ton.	
				„ bolts, nuts and washers	0	2	1	0	18	0	0	„	
				„ service bolts, &c.					14	0	0	„	

CLASS OF STORES A.—IRON BRIDGEWORK.

FOR METRE GAUGE RAILWAYS—*contd.*

Contracted for in 1887.

Contract Number.	Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. T.	c.	qr.	lbs.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
A198	40 feet ...	Metre ...	Upper	Girders, plate, complete	8	0	0	9	69	13	7	Span.	
				For wrought iron work	7	15	2	0	8	10	0	Ton.	
				„ bolts, nuts and washers	0	4	2	9	16	0	0	„	
				„ service bolts, &c.					14	0	0	„	
16	40 feet ...	Metre ...	Upper with military road.	Girders, plate, complete, road at rail level to carry horses and artillery	15	10	3	12	137	4	2	Span.	
				For wrought iron work	15	9	2	15	8	15	0	Ton.	
				„ bolts, nuts and washers	0	1	0	25	20	0	0	„	
				„ service bolts, &c.									
30	40 feet ...	Metre ...	Upper	Girders, plate, complete	15	10	3	12	137	1	0	Span.	
				For wrought iron work	14	12	0	13	8	15	0	Ton.	
				„ bolts, nuts and washers	0	18	2	27	16	7	6	„	
				„ service bolts, &c.					15	7	6	„	
157	40 feet ...	Metre ...	Upper with military road.	Girders, plate, complete, same as on contract No. 16 of 1887 ...	15	10	3	12	137	17	8	Span.	
				For wrought iron work	15	9	2	15	8	15	0	Ton.	
				„ bolts, nuts and washers	0	1	0	25	20	0	0	„	
				„ service bolts, &c.									

CLASS OF STORES A.—IRON BRIDGEWORK.

FOR METRE GAUGE RAILWAYS—*contd.*

Contracted for in 1887.

Contract Number.	Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. T.	c.	qr.	lbs.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
301	40 feet ...	Metre ...	Upper	Girders, plate, complete	15	10	3	12	131	5	0	Span.	
				For wrought iron work	14	12	0	13	8	7	6	Ton.	
				„ bolts, nuts and washers	0	18	2	27	16	0	0	„	
				„ service bolts, &c.									
457	40 feet ...	Metre ...	Upper	Girders, plate, complete	8	0	0	9	68	15	2	Span.	
				For wrought iron work	7	15	2	0	8	15	0	Ton.	
				„ bolts, nuts and washers	0	4	2	9	18	0	0	„	
				„ service bolts, &c.					14	0	0	„	
A192	60 feet ...	Metre ...	Upper	Girders, plate, complete	24	10	3	5	236	2	8	Span.	
				For wrought iron work	24	9	1	5	9	10	0	Ton.	
				„ bolts, nuts and washers	0	0	2	0	16	0	0	„	
				„ service bolts, &c.	0	1	0	0	14	0	0	„	
A194	60 feet ...	Metre ...	Upper	Girders, plate, complete	20	12	1	6	200	17	10	Span.	
				For wrought iron work	20	10	3	6	9	12	6	Ton.	
				„ bolts, nuts and washers	0	0	2	0	16	0	0	„	
				„ service bolts, &c.	0	1	0	0	14	0	0	„	

CLASS OF STORES A.—IRON BRIDGEWORK.

FOR METRE GAUGE RAILWAYS—*contd.*

Contracted for in 1887.

Contract Number.	Description. Clear span.	Gauge.	Roadway on upper or lower boom.	Details.	Estimated weight of each span. T.	c.	qr.	lbs.	Rate—Free on board. Amounts. £	s.	d.	Unit.	Remarks.
A196	60 feet ...	Metre ...	Lower	Girders, triangulated, complete, with foot ways outside ...	35	19	0	9	441	12	0	Span.	
				For wrought iron work	35	14	3	22	12	5	0	Ton.	
				„ bolts, nuts and washers	0	4	0	15	17	17	6	„	
				„ service bolts, &c.									
30	60 feet ...	Metre ...	Upper	Girders, plate, complete	27	1	3	5	257	16	6	Span.	
				For wrought iron work	25	7	1	17	9	8	6	Ton.	
				„ bolts, nuts and washers	1	14	1	16	16	7	6	„	
				„ service bolts, &c.					15	7	6	„	
429	60 feet ...	Metre ...	Lower, cart road on rail level.	Girders, triangulated, complete	37	0	1	18	390	16	6	Span.	
				For wrought iron work	34	14	1	15	10	12	6	Ton.	
				„ bolts, nuts and washers	2	6	0	3	15	15	0	„	
				„ service bolts, &c.					15	0	0	„	
38	100 ft. ...	Metre ...	Lower	Girders, triangulated, complete, with foot ways outside ..	73	14	2	0	734	2	6	Span.	
				For wrought iron work	*				9	17	6	Ton.	* Not given in Contract.
				„ bolts, nuts and washers					18	0	0	„	
				„ service bolts, &c.					16	0	0	„	

CLASS OF STORES A.—IRON BRIDGEWORK.

FOR METRE GAUGE RAILWAYS—*contd.*

Contracted for in 1887.

Contract Number.	Description. Clear span.	Gauge.	Roadway on upper or lower boom.	Details.	Estimated weight of each span. T.	c.	qr.	lbs.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
156	100 feet ...	Metre ...	Lower ...	For additional iron work involved in the substitution of the design with footways, &c.					721	9	0	Total.	
				For wrought iron work	*								
				„ bolts, nuts and washers									
				„ service bolts, &c.									
428	100 feet ...	Metre ..	Lower	Girders, triangulated, complete	73	16	2	26	745	1	2	Span.	
				For wrought iron work					10	0	0	Ton.	
				„ bolts, nuts and washers	*				18	0	0	„	* Not given in Contract.
				„ service bolts, &c.					16	0	0	„	
A 193	150 feet ...	Metre ...	Lower ...	*Girders, triangulated, complete, roadway between girders* ...	126	3	2	16	1,249	13	10	Span.	
				For wrought iron work					9	17	6	Ton.	
				„ bolts, nuts and washers	*				16	7	6	„	
				„ service bolts, &c.					14	17	6	„	
56	...	Metre ...	...	*Girder spans for Bridges.*—Spare parts of—									
				22 Girders, cross, complete, for one span of 150 feet triangulated girder.	*	...	...	...	12 or 378	0 0	0 0	Ton. Total.	
				1 set Flooring plates for one span of 150 feet									

CLASS OF STORES A.—IRON BRIDGEWORK.

FOR METRE GAUGE RAILWAYS—*concld.*

Contracted for in 1887.

Contract Number.	Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. T.	c.	qr.	lbs.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
78	Piers 15 feet between centres, 3 feet diameter.	Metre ...	...	*Piers, iron, for bridges.*									
				15 Bridge piers consisting of cast iron cylinders 3 feet diameter, caps, screw lengths and wrought iron bracings, &c....					1680	9	2	Total.	
				1 Capstan head for sinking piers									
				5 Spare cylinders, intermediate lengths									
				1 Spare cylinder, screw length									
				The above sum is made up from the following rates :—									
				For all cast iron work in piers					5	2	6	Ton.	
				For all wrought iron work in piers and Capstan head ...					10	10	0	„	
				For bolts and nuts					23	5	0	„	
				For service bolts, &c.					16	3	0	„	
128	...	Metre ...	...	Capping girders to piers for 40 feet spans, No. 15 ...					367	19	6	Total.	
				Length 17 feet, centres of piers 15 feet ...					or 24	10	7	Each.	
6	...	Metre ...	...	*Spikes for temporary bridges.*									
				10 Cwt. spikes, iron, 10″ × $\frac{1}{4}$″ square					9	15	0	Ton.	
„		„		10 „ „ „ 8″ × $\frac{3}{8}$″ „					9	15	0	„	
„		„		10 „ „ „ 6″ × $\frac{3}{8}$″ „					10	5	0	„	
				To be of forged wrought iron									

E. H. STONE,

for Director General of Railways.

Vide C82,3047/89

983

Enclosure to Director General of Railways' Circular No. 3 of 1889.

RATE LIST.

CLASS B.

ENGINEERS' PLANT

(EXCLUDING PETTY TOOLS).

FOR 1887.

10

983

Enclosure to Director General of Railways' Circular No. 3 of 1889.

RATE LIST.

CLASS B.

ENGINEERS' PLANT

(EXCLUDING PETTY TOOLS).

FOR 1887.

11

Enclosure to Director General of Railways' Circular No. 3 of 1889.

CLASS OF STORES B.—ENGINEERS' PLANT (EXCLUDING PETTY TOOLS).

Contracted for in 1887.

Contract Number.	Articles.	Details.	Approximate gross weight. Weight. Tons.	cwt.	qr.	lbs.	Unit.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
258	Anchor, bower.	Wrought iron, length 5′ 3″	0	4	0	0	Each	1	8	0	Cwt.	
258		Ditto 5′ 0″	0	3	2	0	„	1	8	0	„	
202	Blocks.	Differential pulley (Weston's patent) to lift 30 cwts. and are fitted with hooks, chains and guides complete.	...	...	...	...	Not given	2	0	0	Each.	
478a		Differential pulley, to lift 4 tons, complete	...	...	...	...	„	4	10	0	„	
413		Travelling pulley, with 3″ journals	...	...	...	...	...	16	0	0	„	
413		Travelling pulley, with 4″ journals	...	...	...	...	...	16	10	0	„	
332	Crane.	Portable, hand, to lift 3 tons. Suitable for a 2 feet gauge railway. The radius of the jib to be 10 feet with a height of not less than 15 feet.	6	13	0	0	Each	165	0	0	Each	Tracings 15 0 per set. Photos 2 6 „ copy.
112	Engines, steam, portable; spare parts of—	200 Ferrules, steel, to suit boiler tubes 9′ 9″ long × 2¼″ inside diameter.										
		200 ditto ditto 9′ 5″ × 2¼″ inside diameter.										
		50 Tubes, boiler, steel, 9′ 9″ long × 2¼″ inside diameter ...	...	...	...	...	...	118	0	0	Total	Cost grouped together.
		50 ditto 9′ 5″ „ × 2¼″ ditto										

CLASS OF STORES B.—ENGINEERS' PLANT (EXCLUDING PETTY TOOLS)—contd.

Contracted for in 1887—contd.

Contract Number.	Articles.	Details.	Approximate gross weight. Weight. Tons.	cwt.	qr.	lbs.	Unit.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
108	Engines, steam, portable; spare parts of—*concld.*	Glasses, gauge, 14″ × 5/8″	...	...	...	...	...	0	0	4	Each.	
		Ditto 14″ × 5/8″	...	...	...	...	...	0	0	3·61	„	
		Ditto 12″ × 5/8″	...	...	...	...	...	0	0	3·2	„	
		For Colliery Plant.										
403	Engine, pumping ...	One horizontal compound differential surface condensing pumping Engine, complete.	...	...	...	...	...	1,000	0	0	Each	Tracings per set £ 10-0-0. Photos per copy £ 0-5-0.
		Two plunger pumps with quadrants, wrought iron spear rods and flanged delivery pipes to suit a depth of 240 feet.	...	...	...	...	...	820	0	0	„	
		Three locomotive type multitubular semi-portable boilers, each 30-H.P. with all fittings and steam piping complete.	...	...	...	...	...	465	0	0	„	
		Extra for shells of best Yorkshire iron	...	...	...	...	...	45	0	0	Per boiler.	
		One steam feed pump, with steam and exhaust piping and steam stop valve complete.	...	...	...	...	...	86	0	0	Each.	
		Duplicate parts	...	...	...	...	...	230	0	0	Total.	
410	Engine, pumping (Davey's patent hydraulic dip pump and piping)	One Hydraulic Pumping Engine (Davey's patent), the power ram and piston to be of gun-metal 5″ and 7 5/8″ diameter × 1′ 6″ stroke; the power cylinder brasslined; the pump ram to be of gun-metal 6 1/2″ diameter × 1′ 6″ stroke; a spare ram 9″ diameter with suitable stuffing box and gland to be provided to enable the pump to raise double the quantity of water when working with the 9″ ram; gun-metal suction and delivery valves.						450	0	0	Each.	
354	Engines, steam ...	15 or 20 H. P. 10″ double cylinder Horizontal Engine with disengaging clutches and Starting gear, complete. *Boilers not required.*	...	...	...	...	...	420	10	0	Each.	
522	Engines, winding ...	30 H. P. piston speed 300 ft., speed of rope 175 ft. per minute. To lift a load of 7 tons direct from the winding drum. Each engine to be fitted with a winding drum and gearing and to be supplied with 1,000 ft. of plough steel wire rope suitable for the above load.	...	...	...	...	...	540	0	0	for the Engine and 1 rope of 1,000 ft.	Cost not shown separately.

OF STORES B.—ENGINEER'S PLANT (EXCLUDING PETTY TOOLS)—contd.

Contracted for in 1887—contd.

Contract Number.	Articles.	Details.	Approximate gross weight. Weight. Tons.	cwt.	qr.	lbs.	Unit.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
110	Engine, winding, semi-portable, Locomotive type; spare parts of—Makers—Robey and Company.	1 set of Bars slide with slide blocks, cross heads and all bolts complete.	...	...	...	...	...	6	17	9	Each set.	
		Brass connecting rod, large end	...	...	...	...	...	0	18	0	Each.	
		Ditto small „	...	...	...	...	...	0	7	2	„	
		Brass, main bearing	...	...	...	...	...	0	15	5	„	
		Eccentric strap	...	...	...	...	...	1	13	3	„	
		Gauge pressure, Bourdon's	...	...	...	...	...	1	3	9	„	
		1 set motion from eccentric rods to quadrant inclusive	...	...	...	...	...	19	0	0	„	
		1 pair pistons with rings and rods	...	...	...	...	...	5	14	0	„	
B177	Forges, portable ...	Allday's patent direct acting climax roots blower forge ...	...	...	...	...	...	8	14	6	Each.	
110	Injectors	Gresham's No. 4 /m self-starting. Made entirely of gun-metal ...	...	...	...	...	...	5	4	6	Each.	
B176	Jacks	Carriage lifting (6 ton Windlass Jack)	...	...	...	...	...	2	12	0	Each.	
202	Jacks, screw ...	Hayley's, to lift 10 tons	...	...	...	...	...	3	18	0	„	
B178	Ditto ...	Traversing to lift 10 tons (Bottle traversing)	...	...	...	...	...	3	16	6	„	
B180	Ditto ...	Ditto ditto	...	...	...	...	...	3	1	0	„	
55	Ditto ...	Ditto ditto	...	...	...	...	...	3	10	6	„	Each. Spare ratchet handles for 10 ton jacks 0 5 6 „ „ „ „ 12 „ „ 0 6 6
93	Ditto ...	Ditto ditto with ratchet of leg pattern, with four legs for J class Locomotives.	...	...	...	...	...	3	7	0	„	

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

Contracted for in 1887—contd.

Contract Number.	Articles.	Details.	Approximate Gross Weight. Weight. Tons	cwt.	qr.	lbs.	Unit.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
B180	Jacks, screw ...	Traversing, to lift 12 tons	...	...	...	...	...	3	4	0	Each.	
B180	Ditto ...	Ditto 15 „	...	...	...	...	...	3	13	0	„	
148	Ditto ...	Ditto 15 „	...	...	...	...	...	3	13	0	„	
202	Ditto ...	Ditto 10 „	...	...	...	...	...	3	1	0	„	
55	Ditto ...	Tripod, with double pawl, 10 tons	...	...	...	...	...	2	15	6	„	
490	Machines, dynamo-electric, for lighting.	Plant, electric light, with dynamos, arc lamps complete, with spare carbons, globes and insulated wire.	...	...	...	...	...	75	0	0	Set.	
		Each set consists of— *One Dynamo* for 3 arc lamps of 2,000 candle power, complete with 2 pairs of spare brushes. *Three arc lamps*—of 2,000 candle power (nominal) with ground glass globes; the lamps are perfectly steady and burn 16 hours with one pair of carbons. *Fifty pairs of 12″* carbons, half to be cored and the other half to be solid. *150 yards of high conductivity solid copper wire*—165″ diameter, insulated with the best quality vulcanized India rubber. *Two spare*—ground glass globes										
B181	Machines, rock drilling (or tunnel boring.)	Two sets of Tunnelling Apparatus, consisting of—	...	...	...	...	...	1,951	18	...	Total.	
		Two tunnel cars, each fitted for four rock drilling machines ...	3	3	0	0	Each	130	0	0	Each.	
		Eight "Inggersoll's" No. 5 Rock drilling machines ...	0	1	1	14	„	36	5	0	„	
		Two direct-acting Steam Air Compressing Engines, each fitted to a strong hollow cast-iron base plate, and mounted on four wheels.	6	1	0	0	„	317	10	0	„	
		Two Vertical Boilers, each mounted on a strong wrought-iron carriage with four wheels.	12	0	0	0	Total	430	0	0	Total.	
		Two wrought-iron Water tanks, each mounted on the same carriage as the boiler.										

CLASS OF STORES B.—ENGINEERS' PLANT (EXCLUDING PETTY TOOLS)—*contd.*

Contracted for in 1887—contd.

Contract Number.	Articles.	Details.	Approximate Gross Weight. Weight. Tons.	cwt.	qr.	lbs.	Unit.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
B181	Machines rock drilling (or tunnel boring)—*concld.*	3,000 lineal feet of Wrought-iron Air Piping, with all necessary flanges bolts, and india-rubber rings for connecting them; also necessary branches and gun-metal taps for connection to each drilling machine.	6	15	0	0	Total	245	0	0	Total.	
		96 Drills, in sets of 12, for the drilling machine	0	3	0	0	„	45	6	0	„	
		Four sets of duplicate parts for the drilling machines	0	2	0	0	„	4	15	0	Set.	
		3 sets Tracings	...	...	...	...	...	8	0	0	„	
		6 Photographs	...	...	...	...	...	0	12	0	Copy.	
493	Machines, rock drilling (or tunnel boring).	Schram's Tunnelling Plant complete, including engine, air compressor, drill carriage and drills.	...	...	...	...	...	1,879	8	0	Each.	
493	Ditto ditto	Ditto ditto without engine and air compressor.	...	...	...	...	...	1,399	8	0	„	
		For detailed Price see Appendix.										
182	Oars	Boat, ashwood, 12 feet	...	...	...	...	...	0	6	2	Each.	
225	Ditto	Ditto 12 „	...	...	...	...	...	0	6	2	„	
225	Ditto	Ditto 14 „	...	...	...	...	...	0	7	2	„	
182	Ditto	Ditto 15 „	...	...	...	...	...	0	7	8	„	
410*a*	Piping; spare flanges for—	1 pair 4″ pipe flanges	...	...	...	...	...	2	10	0	Total	Rate not quoted separately.
		4 pairs 3″ „ „	...	...	...	...	...					
		4 „ 2½″ „ „	...	...	...	...	...					

CLASS OF STORES B.—ENGINEERS' PLANT (EXCLUDING PETTY TOOLS)—*contd.*

Contracted for in 1887—contd.

Contract Number.	Articles.	Details.	Approximate gross weight. Weight. Tons.	cwt.	qr.	lbs.	Unit.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
483	Piping; tools for— ...	Tools, pipe screwing and cutting combined, hand power. *Similar to those supplied on Contract B 136 of 1885. See Rate List, class B, for 1885, Circular No. 14 of 1886.*	...	...	...	...	...	123	13	9	Each.	
292	Pump ...	One three-cylinder steam-power pump with gearing, girders, &c., complete, also duplicate parts, tracings and photos.	...	...	...	...	...	164	10	0	Each.	
350	Ditto ...	Single barrel horizontal pump with gearing and one fixed pulley, ram 8″, pumps 11″ diameter, stroke 12″, on iron frame with foot valve, with 200 feet delivery pipes, 2-T pieces, 4 quarter bends one set spare valves and brasses.	...	...	...	...	...	148	0	0	„	
63	Ramps ...	*Russell's*, cast steel, *Carriage*, double side pattern for 41¼ lb. steel flat-footed rails	...	...	...	...	...	7	0	0	Per set of 2.	
247	Ditto ...	Ditto ditto ditto ...	...	...	...	...	...	7	0	0	„	
G. 1675	Ditto ...	Ditto ditto ditto ...	...	...	...	...	...	7	0	0	„	
394	Ditto ...	*Stroudley's*, cast steel, suitable for 41¼ lb. rails and re-railing *Engines* weighing 22 tons, the heaviest load on any pair of wheels being 8 tons, each ramp to be 2′ 10″ long	...	...	...	...	...	8	10	0	Set	£ 1 for testing.
89	Ropes' wire, steel.	Craddock's plough steel, Lang's patent, 2¼″ circumference. Each rope 350 feet long	0	2	3	20	Each rope	3	7	0	Cwt	
312		Special steel wire rope 225 feet long, breaking strain 60 tons, thimble at both ends.	0	5	0	5	length	21	0	0	Length	
313		Torpedo rope 500 feet, thimble at one end, Ditto 36 „	0	7	0	11	„	25	5	6	„	
354		Plough 2½″ circumference, each 1,450′ long	4	3	2	0	For 10,220 ft	35	0	0	Each.	
354		Ditto ditto 3,660′ „						86	0	0	„	
372		250′ long 3″ circumference, thimbles at each end	0	2	3	19	length	10	4	2	Length	Thimbles and flemish eyes @ 10*s.* each.

CLASS OF STORES B.—ENGINEERS' PLANT (EXCLUDING PETTY TOOLS)—*contd.*

Contracted for in 1887—contd.

Contract Number.	Articles.	Details.	Approximate gross weight. Weight. Tons.	cwt.	qr.	lbs.	Unit.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
495	Ropes, wire, steel—*concld.*	Extra plough steel 4½″ circumference, each cable 300 fathoms	0	0	0	19	Fathom	2 or 113	5 15	0 0	Cwt. Each.	
524		Lang's plough steel, 2″ circumference, in lengths of 300 feet. Rope to have an eye or thimble spliced in.	0	0	0	3½	Fathom	3 or 6	12 0	0 0	Cwt. Each.	
54	Ropes, wire, steel; connections and fittings for—	Bullivant's flexible steel wire hawsers, ordinary quality, for working load of 3 ton, 3″ circumference, *viz*:										
		2 Lengths of 210 feet each						29	12	6	Total.	
		2 „ „ 500 „ „										
		8 Snatch blocks						10	10	0	Each.	
		4 Thimbles for 4½″ rope						0	2	6	„	
		4 „ „ 3½″ „						0	2	3	„	
		Fitting rope						1	10	0	Total.	
313		2 sets tackle ... ... Each set to consist of 1,000 feet—1¾″ flexible steel hawser (6 tons B. S.) with 2 double blocks, and 2 snatch blocks thimble at both ends. Hooks of blocks to lift 5 tons.	0	3	1	10	Set	42	5	0	Set.	
354 *a*		2 carrier pulleys for ropes (additional)		...	...	...	...	10	5	0	Each.	The carrier pulleys and snatch blocks having been ordered for a special purpose have been shown here instead of in their proper place under blocks as being more convenient.
354		Swivelling shackles for wire ropes		...	...	...	...	4	15	0	„	
354		Spring buffer stops to check the ropes and wagons		...	...	...	...	15	15	0	„	
354		Carrier pulleys with boxes, brasses, &c., complete 10″ diameter ...		...	...	...	...	1	7	6	„	

CLASS OF STORES B.— ENGINEERS' PLANT (EXCLUDING PETTY TOOLS)—*contd.*

Contracted for in 1887—contd.

Contract Number.	Articles.	Details.	Approximate gross weight. Weight. Tons	cwt.	qr.	lbs.	Unit.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
354	Ropes, wire, steel; connections and fittings for —*concld.*	Carrier pulleys for ropes, 4 feet diameter, with 4 ordinary and 4 high pedestals.	...	...	...	...	...	12	10	0	Each.	
354		Ditto ditto 3 „ „	...	...	...	...	...	10	10	0	„	
354		Pulleys Fowler's clip, 6 „ „ with brake gear complete ...	...	...	...	...	...	83	10	0	„	
354		Extra brake gear on one pulley	...	...	...	...	...	27	10	0	„	
496		Drums, clip (Fowler's) 10′ 6″ diameter at rope seat, suitable for a wire rope 4½″ circumference.	...	...	...	...	...	163	0	0	„	
354	Screens	With bevelled bar iron for spare screen bars say 10%	...	...	...	...	...	92	0	0	Each.	
144	Trollies, light, wheels and axles for—5′ 6″ gauge.	Set of 4 wheels, 2 axles, 8 nuts and 4 split pins	...	...	...	...	...	5	3	0	Set.	
377	Ditto ...	Wheels and axles for light trollies	...	...	...	...	...	2	11	0	Pair.	
354	Wagons, Coal ...	Or tubs, end tipping	...	...	...	...	...	6	15	0	Each.	
		Or tubs, side tipping	...	...	...	...	...	6	15	0	„	
81	Winches	Crab, hand-power, double purchase, 5 tons	1	17	0	0	Each	29	12	0	Each.	
81	ditto	Ditto ditto 3 „	1	1	0	0	„	17	0	0	„	
		6 sets tracings and 12 photos	...	...	...	...	...	5	2	0	Total.	
82	Ditto	Crab, hand-power, treble purchase, 10 tons	2	11	0	0	Each	48	0	0	Each.	
		3 sets tracings and 6 photos	...	...	..	...	...	2	5	0	Total.	
B179	Ditto	Steam, 5 tons	...	...	...	...	...	335	0	0	Each.	

8

Appendix.

CLASS OF STORES B.—ENGINEERS' PLANT (EXCLUDING PETTY TOOLS)—*contd.*

Contracted for in 1887—contd.

Contract Number.	Articles.	Details.	Approximate gross weight. Weight. Tons	cwt.	qr.	lbs.	Unit.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Detailed price of Schram's Tunnelling Plant.										
493	...	No. III, class B, direct acting air compressors with steam engines, cylinder 14″ diameter, 24″ stroke, placed side by side. Air cylinders fitted with Schram's patent inlet and outlet valves, and enclosed in cold water circulating tanks ... Pair 1.	...	...	...	...	...	480	0	0	Pair.	
		20-H. P. multitubular boilers with all necessary mountings and fittings complete, with Injectors and support under smoke box ends ... ... 2.	...	...	...	...	...	198	0	0	Each.	
		Vertical feed water pump with all fittings 1	...	...	...	...	...	20	10	0	„	
		Air receiver 15′ long, 5′ diameter, fitted with safety valve, pressure gauge, blow off cock, inlet and outlet flanges ... 1.	...	...	...	...	...	51	10	0	„	
		Steam and exhaust air pipes between air compressors and air receiver, also feed water pipes from pump to boilers ... Sets 2.	...	...	...	...	...	30	0	0	Set.	
		No. III Schram's patent rock boring machines 3½″ diameter, fitted with all the latest improvements. ... ... No. 8	...	...	...	...	...	50	0	0	Each.	
		Carriage support with vertical stretcher bars, suitable for 4 rock boring machines with 4 universal clamps air distributor, complete, with branch hose and fittings, water injector with water hose and fittings ... ... 1.	...	...	...	...	...	103	0	0	„	
		Extra strong improved stretcher bars for enlarging tunnel 2	...	...	...	...	...	4	18	0	„	
		Universal clamps for ditto 2	...	...	...	...	...	5	3	0	„	
		Improved wrought iron tripods, complete with universal clamps, heavy weights and clips ... ... 2.	...	...	...	...	...	16	0	0	„	
		50 ft. length of specially made 2″ diameter main hose, lapped with tarred marline with brass fittings ... ... 1.	...	...	...	...	...	9	5	0	„	
		50 ft. length of 1½″ diameter main hose as above 1	...	...	...	...	...	7	10	0	„	
		25 ft. length of 1″ branch hose as above 2	...	...	...	...	...	4	0	0	„	
		Brass clips for 2″ main hose ... ... pairs 4	...	...	...	...	...	0	6	0	„	
		Ditto 1½″ ditto ... ... „ 4	...	...	...	...	...	0	4	6	„	
		Ditto 1″ branch ditto ... ... „ 16	...	...	...	...	...	0	3	6	„	

9

CLASS OF STORES B.—ENGINEERS' PLANT (EXCLUDING PETTY TOOLS)—*contd.*

Appendix—contd. *Contracted for in 1887*—contd.

Contract Number.	Articles.	Details.	Approximate gross weight. Weight.				Unit.	Rate—Free on Board. Amount.			Unit.	Remarks.
			Tons.	cwt.	qr.	lbs.		£	s.	d.		
493		*Detailed price of Schram's Tunnelling plant*—contd.										
		Air distributor with brass fittings 1	...	...	...	...	...	5	12	0	Each.	
		Gun-metal main cocks with couplings 2	...	...	...	...	...	2	16	0	„	
		Steel drills, extra strong of best steel, to bore holes commencing 2½″ diameter, 20 in a set ... ... Sets 12.	...	...	...	...	...	9	7	0	Set.	
		Drill sharpening tools ... ... Sets 2	...	...	...	...	...	1	3	6	„	
		Reserve Parts.										
		50 ft. lengths of 2″ main hose complete ... 2	...	...	...	...	...	9	5	0	Each.	
		Ditto 1½″ ditto 2	...	...	...	...	...	7	10	0	„	
		25 ditto 1″ branch ditto 4	...	...	...	...	...	4	0	0	„	
		Lengths of 1″ branch hose complete for carriage Support 8	...	...	...	...	...	2	0	0	„	
		Brass clips for 2″ main hose ... ... pairs 4	...	...	...	...	...	0	6	0	„	
		Ditto 1½″ ditto ... ... „ 4	...	...	...	...	...	0	4	6	„	
		Ditto 1″ ditto ... ... „ 16	...	...	...	...	...	0	3	6	„	
		Gun-metal main cocks with couplings 2	...	...	...	...	...	2	16	0	„	
		Ditto air ditto 8	...	...	...	...	...	0	18	6	„	
		Water jets with hose 4	...	...	...	...	...	1	3	6	„	
		Steel ratchets 16	...	...	...	...	...	0	12	6	„	
		„ upper pawls 24	...	...	...	...	...	0	4	6	„	
		„ lower „ 24	...	...	...	...	...	0	4	6	„	
		„ twisted bars 6	...	...	...	...	...	0	16	6	„	
		Phosphor Bronze bushes 10	...	...	...	...	...	0	9	0	„	
		Steel feed screw nuts 8	...	...	...	...	...	1	3	6	„	

CLASS OF STORES B.—ENGINEERS' PLANT (EXCLUDING PETTY TOOLS)—*concld.*

Appendix—concld. *Contracted for in 1887*—concld.

Contract Number.	Articles.	Details.	Approximate gross weight. Weight.				Unit.	Rate—Free on Board. Amount.			Unit.	Marks.
			Tons.	cwt.	qr.	lbs.		£	s.	d.		
		Detailed price of Schram's Tunnelling Plant—concld.										
493	... ...	Steel Feed screws 4	...	...	...	...	...	1	11	6	Each.	
		Large packing rings and springs ... ... Sets 8	...	...	...	...	...	0	10	6	„	
		Small ditto ditto 8	...	...	...	...	...	0	8	6	„	
		Upper cylinder covers 6	...	...	...	...	...	1	3	6	„	
		Lower „ „ and glands 6	...	...	...	...	...	1	12	6	„	
		Pawl pistons and covers 6	...	...	...	...	...	0	15	0	„	
		Assortment of nuts, bolts, springs, thumbscrews, &c., for rock boring machines ... ... Sets 2	...	...	...	...	...	4	13	0	„	
		Piston rings for steam cylinders ... ... „ 2	...	...	...	...	...	0	18	6	„	
		Ditto air ... ... „ 2	...	...	...	...	...	0	18	6	„	
		Spare brasses ... ... „ 2	...	...	...	...	...	3	15	0	„	
		Inlet valves with seatings for air compressors ... 4	...	...	...	...	...	2	16	0	„	
		Gauge glasses for boilers 12	...	...	...	...	...	0	1	6	„	
		Tubing india-rubber air strong, 1¼″ with screw couplings Lft. 400	...	...	...	...	...	72	0	0	Total.	

E. H. STONE,

for Director General of Railways.

Enclosure to Director General of Railways' Circular No. 24 of 1888.

RATE LIST.

CLASS F.

STATION MATERIALS AND FENCING

FOR 1886.

(CONTRACTS Nos. F 673 TO F 746.)

G. C. Press, Simla.—No. 1213 P. W. D.—12-12-88.—1,200.

Enclosure to Director General of Railways' Circular No. 24 of 1888.

983

RATE LIST.

CLASS F.

STATION MATERIALS AND FENCING

FOR 1888.

(CONTRACTS Nos. F 673 TO F 746.)

20

Enclosure to Director General of Railways' Circular No. 24 of 1888.

INDIAN STATE RAILWAYS.

CLASS F—STATION MATERIALS AND FENCING.

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886.

(Contracts Nos. F 673 to F 746.)

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office drawings (if any). Original F.	India Office drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount. £ s. d.	Rate F. O. B. in England. Unit.	Gross weight. Weight. T. c. q.	Gross weight. Unit.	Entire sea freight per ton to port. Rate. s. d.	Entire sea freight per ton to port. Port.	Remarks.
709	22nd June 1886	7 of '86	Bellary Kistna (metre).	Apparatus, washing-out.	For Locomotive boilers. The contract is to include the supply of the cast iron pan and wrought iron cover, with two wrought-iron handles, cast iron bottom pipe, gun metal cock, India-rubber washer, noze and nozzle, hose and couplings, and all nuts and bolts necessary for the entire completion of the washing-out apparatus, ready for fixing.	259	620	Sets 4	12 10 0	Set	2 8 2	Total	22 0	M.	
677	12th January 1886.	36 of '85.	Sind Sagar (5' 6")	Cases, ticket.	Complete, double doors. To contain three rows of 25 tubes each (each tube to hold 100 tickets) and three rows of 25 tubes each (each tube to hold 50 tickets).	381	...	No. 5	8 14 5	Each	6 13 0	Total	12 6	K.	
"	Ditto ...	Ditto ...	Ditto ...		Complete, single door. To contain two rows of 13 tubes each (each tube to hold 100 tickets), and three rows of 13 tubes each (each tube to hold 50 tickets). There are no tubes in the door of the single-door case.	381	...	" 26	5 0 0	"					
683	4th February 1886.	72 of '85.	Punjab Northern (5' 6").	Clocks	Station	...	...	No. 6	7 5 0	Each	1 14 2	Total	18 0	K.	Lund and Blockley.

Statement shewing rates free on board in England, gross weight and sea freight per ton of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any). Original F.	India Office Drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount. £	s.	d.	Unit.	Gross Weight. Weight. T. c. q.	Unit.	Entire Sea Freight per ton to port. Rate. s. d.	Port.	Remarks.
690	10th April 1886	2 P. R. of '85.	Lucknow Sitapur (metre).	Clocks—*contd.*	Station	...	...	No. 20	7	5	0	Each.	4 10 2	Total	15 0	B.	Lund and Blockley.
718	23rd July 1886	1 of '86...	Burma (metre) ...		Ditto	...	...	„ 8	7	5	0	„	2 19 0	„	27 6	R.	Lund and Blockley. Sea freight charged on measurement tonnage.
737	2nd November 1886.	3 of '86...	Ditto (metre) ...		Ditto	...	...	„ 4	7	5	0	„	1 8 2	„	27 6	R.	
720	3rd August 1886	6 of '86...	Cuddapah-Nellore (metre).	Cranes, hand, portable.	Each to lift 3 tons. Suitable for working at station goods shed. Each crane is to be carried on a wrought iron or steel truck, made to run on a metre gauge railway, and suited to hoist, lower and swing a weight of 3 tons at a radius of jib of 10 feet from the centre of the pillar to the centre of the load, and to have a maximum height at work of 14 feet from the rail level to the centre of the sheave in the jib head, and fitted with a link motion for lowering the jib.	606	622 1—7 and photo.	No. 4	180	0	0	Each	26 5 3	Total	18 0	M.	Tracings, per set £ 2 0 0 Photos, per copy 0 2 6
685	5th February 1886.	72 of '85	Punjab Northern (5' 6").	Cranes, water, pillar.	6" complete with piping and connections	265	600 1—2	No. 2	37	7	6	Each	4 10 1	Total	18 0	K.	
697	22nd April 1886	2 P. R. of '85.	Lucknow Sitapur (metre).		6" ditto ditto ...	265	608 1—2	„ 12	36	7	6	„	27 2 1	„	12 0	B.	
705	7th June 1886 ...	7 of '86	Bellary Kistna (metre).		6" ditto ditto ...	265	615 1—2	„ 14	36	0	0	„	31 12 2	„	27 0	M.	
728	9th October 1886	25 of '86	Sind Pishin (5' 6")		6" ditto ditto ...	265	...	„ 24	26	0	0	„	60 1 2	„	15 0	K.	Drawings, per set £ 0 15 0 Photos, per copy 0 5 0
733	15th October 1886	26 of '86	Pishin Valley Reserve (5' 6").		6" ditto ditto ...	265	...	„ 10	26	0	0	„	25 2 0	„	16 0	K.	

INDIAN STATE RAILWAYS.

CLASS F—STATION MATERIALS AND FENCING.

Statement shewing rates free on board in England, gross weight and sea freight per ton of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any). Original F.	India Office Drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount. £	s.	d.	Unit.	Gross Weight. Weight. T. c. q.	Unit.	Entire Sea Freight per ton to port. Rate. s. d.	Port.	Remarks.
680	20th January 1886.	36 of '85	Sind Sagar (5' 6")	Engines, steam, pumping.	Six horse power. Double acting, with boilers and suction and delivery pipes complete.	...	607 1—13	No. 3	295	0	0	Each	24 5 3	Total	24 0	K.	
736	29th October 1886	25 & 26 of '85.	Sind Pishin and P. V. Reserve (5' 6").		Six horse power with boilers complete for supplying water for the use of locomotives from wells 100 feet deep. Each of the pumps is to have 27 feet of suction and 99 feet of delivery pipes in 9 feet lengths; also 2 short lengths, one of 4 feet and one of 6 feet, two quarter bends and one tee piece, and all necessary pump rods and guides for connecting the engines and pumps, the pumps being about 80 feet below the engine, each engine is to have the following duplicate parts: One complete set of spare valves for pumps. One complete set of piston rings for engines and pumps. One set of spare leathers for pumps. One complete set of connecting rod and main shaft brasses for both engine and pumps. Twelve glass tubes and rings for each boiler. One large spur wheel. One pinion.	547 1—11	...	„ 6	225	0	0	„	69 11 1	„	* 15 0 & 17 3	K.	* Two @ ... ... £ 0 15 0 Four „ 0 17 3

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any.) Original F.	India Office Drawings (if any.) Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount. £ s. d.	Rate F. O. B. in England. Unit.	Gross Weight. Weight. T. c. q.	Gross Weight. Unit.	Entire sea freight per ton to port. Rate. s. d.	Entire sea freight per ton to port. Port.	Remarks.
736 *(concld.)*	29th October 1886	25 & 26 of '86.	Sind Pishin and P. V. Reserve (5' 6")	Engine, steam, pumping—*concld.*	The general dimensions of the engines, boilers and pumps are as follows: Diameter of steam cylinder 8 inches. Length of stroke ... 10 „ Diameter of boiler ... 3 ft. 2 „ Height of boiler ... 7 ft. Diameter of pump barrel 6 „ Stroke of pumps (double acting), 12 inches changeable to 8 inches. Number of pumps (double acting) two.										
721	9th August 1886	15 of '86	Sind Pishin (5' 6")	Fencing, barb.	Complete for two miles (single line) with four wires. The materials required for the above fencing are as follows: Barb wire ... 2¾ tons: Patent slotted standards 1,100 No. Pincers for standards ... 1 pair. Splices for standards ... 1 pair. Winding strainer for standards ... 1 No. Lever stretcher ... 1 No. Ten per cent. additional cast iron cross stays.	...	...	Miles 2	82	Mile	13 14 0	Total	12 0	K.	

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any.) Original F.	India Office Drawings (if any.) Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount. £ s. d.	Rate F. O. B. in England. Unit.	Gross Weight. Weight. T. c. q.	Gross Weight. Unit.	Entire sea freight per ton to port. Rate. s. d.	Entire sea freight per ton to port. Port.	Remarks.
715	25th June 1886...	1 of '86	Dhond and Manmad (5' 6").	Fencing, wire, strand; materials for—	Bolts, eye, straining galvanized with nuts and washers, weighing, 3·133 lbs. each.	...	...	Tons 4½	22 0 0	Ton	5 3 3	Total	12 0	B.	
717	10th August 1886	Ditto	Tirhoot (metre)		Bolts, eye, straining (ring bolts), galvanized ⅝" diameter, 16" long, each with one square nut and one washer 2" diameter, 5/16" thick. Hole in bolt 1" diameter.	...	...	No. 10,000 *T. c. q. lbs.* =7 16 2 22	234 15 7	Total	9 15 2	„	18 0	C.	
740	18th November 1886.	3 of '86	Burma (metre)...		Bolts, eye, straining galvanized each with two nuts and a washer.	...	...	No. 1,804 *c. q. lbs.* = 51 0 14	22 8 9	Ton	3 0 0	„	15 0	R.	
682	22nd January 1886.	76 of '85	Bhopal (5' 6") ...		Posts, iron (wrought) intermediate, for 5 wires.	...	...	No. 1,400	6 10 0	„	16 15 1	„	18 6	B.	Includes gross weight of 1,000 cast iron base sockets and 1,000 wrought iron wedges for cast iron sockets.
742	23rd November 1886.	3 of '86	Burma (metre) ...		Posts, iron (wrought) intermediate. (Estimated weight 12·2 lbs. each.)	...	...	No. 10,479 *T. c. q. lbs.* =56 2 3 0	4 15 6	„	58 18 3	„	15 0	R.	Includes gross weight of item marked (*a*) below.
„	Ditto	Ditto	Ditto ...		Posts, iron (wrought), stiffening (estimated weight 35·5 lbs. each.)	...	...	No. 164= *T. c. q. lbs.* 2 11 1 8	7 15 6	„	(*a*)	...	15 0	R.	Gross weight included in item above.
741	Ditto	Ditto	Ditto ...		Posts, iron (cast), straining (200 yards apart. Estimated weight 2 *c.* 1q. 7 lbs. each).	...	...	No. 182= *T. c. q. lbs.* 21 0 3 14	4 5 0	„	119 9 2	Total	25 0	R.	Includes gross weight, also of items marked (*b*) in next page.

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office drawings (if any). Original F.	India Office drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount. £ s. d.	Rate F. O. B. in England. Unit.	Gross weight. Weight. T. c. q.	Gross weight. Unit.	Entire sea freight per ton to port. Rate. s. d.	Entire sea freight per ton to port. Port.	Remarks.
682	22nd January 1886.	76 of '85	Bhopal (5' 6") ...	Fencing wire strand; materials for—*concld.*	Sockets (bases) for posts, pointed	...	...	No. 1,000	3 10 0	Ton	16 15 1	Total	18 6	B.	Includes gross weight of 1,400 wrought iron intermediate posts and 1,000 wedges for base sockets.
741	23rd November 1886.	3 of '86	Burma (metre) ...		Ditto (estimated weight 20 lbs. each).	...	...	No. 10,807 = T. c. q. lbs. 96 9 3 8	3 6 9	„	(b)	„	25 0	R.	
682	22nd January 1886.	76 of '85	Bhopal (5' 6") ...		Wedges (wrought) for base sockets	...	...	No. 1,000	15 0 0	„	16 15 1	„	18 6	B.	Includes gross weight of 1,000 sockets and 1,400 intermediate posts.
741	23rd November 1886.	3 of '86	Burma (metre) ...		Wedges, wrought-iron (estimated weight 5·8 ozs. each).	...	...	No. 10,807 = T. c. q. lbs. 1 14 3 24	12 0 0	„	(b)	„	25 0	R.	
679	14th January 1886.	76 of '85	Bhopal (5' 6") ...		Wire, strand, galvanized, 14 E. W. G. ... „ ...	...	...	Tons. 3	12 5 0	„	3 0 3	„	14 6	B.	For packing £ 0 7 0
691	10th April 1886	4 of '85	Nagpur and Chhattisgarh (metre).		Ditto ditto (in coils of 450 yards each).	...	...	6 coils = T. c. q. lbs. 0 10 0 24	16 15 0	„	0 10 1½	„	12 0	B.	
739	18th November 1886.	3 of '86	Burma (metre)		Ditto ditto (in coils of 450 yards each).	...	...	Coils 402 = T. c. q. lbs. 32 4 0 13	10 19 9	„	32 6 2	„	15 0	R.	
729	12th October 1886.	25 & 26 of '86	Sind Pishin & P. V. Reserve (5' 6").	Hydrants.	Cast iron with hose and nozzles complete.	497	631 1—2	No. 24	7 5 0	Each	4 6 3	Total	15 0 & 20 0	K.	£ s. d. 12 @ 0 15 0 12 „ 0 20 0
					Photographs		...	...	0 1 0	„					
					Tracings		...	...	0 6 0	„					

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office drawings (if any). Original F.	India Office drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount. £ s. d.	Rate F. O. B. in England. Unit.	Gross weight. Weight. T. c. q.	Gross weight. Unit.	Entire sea freight per ton to port. Rate. s. d.	Entire sea freight per ton to port. Port.	Remarks.
730	14th October 1886.	25 & 26 of '86.	Sind Pishin & P. V. Reserve (5' 6").	Piping, cast iron, and connections for.	Piping, turned and bored, faucit and spigot, 6" diameter, ⅜" thick and in 9 feet lengths, coated inside and outside with Dr. Smith's varnish. (One 9 feet pipe weighs 2¾ cwt.)	...	...	L. ft. 20,843 = t. c. 318 9	3 8 0	Ton	338 8 2	Total	16 5	K.	For wrought iron piping, see Rate List, Class G for 1886, Page 78.
„	Ditto ...	Ditto	Ditto ...		Bends, right angle for 6" piping 1' 6" × 1' 6" × 10" radius (each weighs 1½ cwts.)	...	...	No. 100 = t. c. 7 10	7 10 0	„					
„	Ditto ...	Ditto	Ditto ...		Tee pieces for 6" piping (each weighs 2½ cwt.)	...	...	„ 100 = t. c. 12 10	7 10 0	„					
703	25th May 1886...	79 of '85	Nagpur Chhattisgarh (metre).		Bends, wrought iron for water service connections, 2" inside diameter.	...	...	„ 4	0 1 6	Each	0 1 0	„	12 6	B.	Cask £0-5-0.
„	Ditto ...	Ditto	Ditto ...		Ditto ditto 1½" inside diameter	...	...	„ 2	0 1 0	„					
„	Ditto ...	Ditto	Ditto ...		Ditto ditto 1" inside diameter	...	...	„ 5	0 0 6	„					
G-1512	28th June 1886	2 of '86	Northern Bengal (metre).	Plates, iron, enamelled, mile marks.	For telegraph post. The plates are of ⅛" thick wrought iron plate, 6" square with four $\frac{5}{16}$" holes at corners, covered on back and edges with dark grey enamel, and on the front with two, three, four, or five 2" figures in white enamel on blue enamel ground.	...	...	No. 3,000	0 5 3	Dozen	1 9 3	Total	21 0	C.	

Statement shewing rates free on board in England, gross weight and sea freight per ton of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any.) Original F.	India Office Drawings (if any.) Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount. £ s. d.	Rate F. O. B. in England. Unit.	Gross Weight. Weight. T. c. q.	Gross Weight. Unit.	Entire sea freight per ton to port. Rate. s. d.	Entire sea freight per ton to port. Port.	Remarks.
678	12th January 1886.	36 of '85	Sind Sagar (5' 6")	Presses, ticket dating.	To print date, with type complete and one pint of ink to each press.	381	...	No. 31	2 4 4	Each	0 11 2	Total	20 0	K.	* Includes the weight of 500 yards inking tape.
693	20th April 1886	16 of '85	Sind Punjab and Delhi (5' 6").		To print date (inking) with type and ink complete.	381	...	„ 24	2 4 0	„	*0 10 2	„	14 0	K.	Sea freight charged on measurement tonnage; actual gross weight cwt. 5-1-4.
699	21st April 1886	2 P.R. of '85.	Lucknow Sitapur, (metre).		To print date with type and type boxes complete.	381	...	„ 20	2 5 0	„	0 3 2	„	16 0	B.	Including £ 1-10-0 for packing and delivery for 20 Presses.
710	25th June 1886	1 of '86	Jorhat (2 feet) ...		To ink date with type and ink complete	...	...	„ 3	2 5 0	„	0 2 0	„	18 0	C.	Sea freight charged by measurement.
722	9th August 1886	Ditto	Burma (metre) ...		To print date with type and ink complete.	381	...	„ 10	2 4 6	„	0 6 0	„	27 6	R.	Ditto.
693	20th April 1886	16 of '85	Sind Punjab and Delhi (5' 6").		Tape, ticket dating, inking ...	...	...	Yds. 500	3 13 0	Total	...	...	...	K.	Weight included in that of Presses under this Contract.
695	19th April 1886	72 of '85	Punjab Northern (5' 6").		Ribbon, inked, 1½" wide, for ticket dating presses.	...	...	„ 200	1 9 2	„	Not known	...	14 0	K.	
698	20th April 1886	2 P. R. of '85.	Lucknow Sitapur (metre).	Pumps.	Double cylinder, hand power ...	468/1—4	617	No. 2	27 10 0	Each	4 8 2	Total	16 0	B.	
731	13th October 1886	25 & 26 of '86.	Sind Pishin and P. V. Reserve (5' 6").		Ditto ditto ...	468/1—4	625/1—4	„ 30	24 0 0	„	63 6 0	„	15 0	K.	Tracings, per set £ 0-12-0 and photo—per copy £ 0-4-6 extra.
744	1st December 1886	1 of '86	Toungoo Mandalay Railway (metre.)		Ditto ditto (4½" barrel)...	...	627/1—4	„ 6	24 13 0	„	3 16 2	„	25 0	R.	
					All the above pumps are complete with wrought iron piping, &c., and duplicate parts.										

INDIAN STATE RAILWAYS.

CLASS F—STATION MATERIALS AND FENCING. CLASS F—STATION MATERIALS AND FENCING.

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any.) Original F.	India Office Drawings (if any.) Completion F.	Number or quantity contracted for. Number.	Number or quantity contracted for. Weight.	Rate F. O. B. in England. Amount. £ s. d.	Rate F. O. B. in England. Unit	Gross Weight. Weight. T. c. q.	Gross Weight. Unit	Entire sea Freight per ton to port. Rate. s. d.	Entire sea Freight per ton to port. Port.	Remarks.
					ROOFING OVER GOODS SHED, 35 FEET SPAN, 102 FEET 6 INCHES LONG.				T. c. q. lbs.							
681	18th January 1886	76 of '85	Bhopal (5' 6")	Roofing, iron, complete roofs.	*Ungalvanized wrought and cast ironwork as under—*	409	604	One roof	11 0 0 25	104 9 7	Total	11 1 3	Total	14 0	B.	For galvanized Ironwork required for this roofing, see page 11.
					T iron rafters 22' 1" × 4" × 4" × 7/16" at 11·6 lbs. per foot.	...	...	No. 26	2 19 1 24							
					T iron struts 4' 5" × 2" × 3" × 7/16" at 6·7 lbs. per foot.	...	...	„ 22	0 5 1 23							
					T iron struts 3' 11" × 2" × 3" × 7/16" at 6·7 lbs. per foot.	...	...	„ 22	0 4 3 6							
					T iron bearings 1' 8" × 6" × 3" × ½" at 14·6 lbs. per foot.	...	...	„ 22	0 4 3 2							
					Tie bars 9' 7¼" × 5" × ½" at 8·35 lbs. per foot.	...	...	„ 22	0 15 3 0							
					Tie bars 15' 4" × 3½" × ½" at 5·84 lbs. per foot.	...	...	„ 11	0 8 3 15	10 0 0	Ton.					
					Tie bars 9' 6¼" × 3" × ½" at 5·01 lbs. per foot.	...	...	„ 22	0 9 1 10							
					Apex gussets 5/16" thick	...	...	„ 22	0 3 0 0							
					Joint gussets on rafter 5/16" thick ...	...	...	„ 88	0 3 0 0							
					Shoe gussets on rafter 5/16" thick ...	...	...	„ 44	0 6 1 0							
					Tie bar gussets 1' 11½" × 9½" × 5/16" ...	...	...	„ 44	0 7 3 2							
					Washerplates in wall 1' 6" × 4" × ½" ...	...	...	„ 22	0 1 3 22							
					Holding down bolts, nuts and washers ...	...	...	„ 48	0 3 0 0	20 0 0	„					

Continued to next page.

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

CONTRACT. Number F.	CONTRACT. Date.	Number of Indent.	For what Railway.	Articles.	Details.	INDIA OFFICE DRAWINGS (IF ANY). Original F.	INDIA OFFICE DRAWINGS (IF ANY). Completion F.	NUMBER OR QUANTITY CONTRACTED FOR. Number.	NUMBER OR QUANTITY CONTRACTED FOR. Weight.	RATE F. O. B. IN ENGLAND. Amount.	RATE F. O. B. IN ENGLAND. Unit.	GROSS WEIGHT. Weight.	GROSS WEIGHT. Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	ENTIRE SEA FREIGHT PER TON TO PORT. Port.	REMARKS.
					Continued from page 9.				*T. c. q. lbs.*	£ s. d.		*T. c. q.*		*s. d.*		
681 (concld.)	18th January 1886	76 of '85...	Bhopal (5′ 6″) ...	Roofing, iron, complete roofs—*contd.*	Angle iron purlins 20′ × 3″ × 3″ × ⅜″ at 7·03 lbs. per foot.	...	...	No. 34	2 2 3 0							
					Angle iron purlins 25′ × 3″ × 3″ × ⅜″ at 7·03 lbs. per foot.	...	...	,, 12	0 18 3 9							
					Angle iron purlins 15′ × 3″ × 3″ × ⅜″ at 7·03 lbs. per foot.	...	...	,, 8	0 7 2 6	8 0 0	Ton.					
					Angle iron brackets for purlins at Joints 9″ × 3″ × ⅜″.	...	...	,, 44	0 2 0 8							
					Angle iron brackets for purlins 4″ × 3″ × 3″ × ⅜″.	...	...	,, 86	0 1 3 6							
					Wind ties ¾″ diameter	...	...	,, 20	0 4 1 25	10 0 0	,,					
					Bolts and nuts for wind ties 4″ long × ⅜″ diameter.	...	...	,, 20	0 0 1 5							
					Bolts and nuts for wind ties 2¾″ long × ⅜″ diameter.	...	...	,, 5	0 0 0 6	20 0 0	,,					
					Rivets, including 50 per cent. extra, say	...	...	—	0 0 0 0							

10

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

CONTRACT. Number F.	CONTRACT. Date.	Number of Indent.	For what Railway.	Articles.	Details.	INDIA OFFICE DRAWINGS (IF ANY). Original F.	INDIA OFFICE DRAWINGS (IF ANY). Completion F.	NUMBER OR QUANTITY CONTRACTED FOR. Number.	NUMBER OR QUANTITY CONTRACTED FOR. Weight.	RATE F. O. B. IN ENGLAND. Amount.	RATE F. O. B. IN ENGLAND. Unit.	GROSS WEIGHT. Weight.	GROSS WEIGHT. Unit.	ENTIRE SEA FREIGHT PER TON TO PORT. Rate.	ENTIRE SEA FREIGHT PER TON TO PORT. Port.	REMARKS.
					ROOFING OVER GOODS SHED 35 FEET, SPAN, 102 FEET 6 INCHES LONG.				*T. c. q. lbs.*	£ s. d.		*T. c. q.*		*s. d.*		For ungalvanized Ironwork required for this roofing, see page 9.
					Galvanized iron work as under— ...	409	...	One roof	10 2 2 10	131 8 11	Total					
					Corrugated sheets 6 feet long and 2′ 6″ between centres of end corrugations.	...	...	No. 425	8 7 0 0	11 12 6	Ton.					
					Ridge plates 11 feet long, weighing 3·32 lbs. per square foot before galvanizing.	...	...	,, 12	0 7 0 19	16 2 6	,,					
					Wind bars, 20′ 2″ long	...	...	,, 43	0 9 3 9	11 12 6	,,					
					Ditto ditto 15′ 1½″ long ...	...	...	,, 22	0 3 3 22							
					Clips (0·7 lbs. each) ...	...	...	,, 1,700	0 10 2 4	28 2 6	,,	11 5 2	Total	13 6	B.	
684	5th February 1886	76 of '85	Bhopal (5′ 6″)	Roofing, iron, in complete roofs—(*contd.*)	Rivets, ½″ diameter, and burrs for sheeting; including 30 per cent. extra.	...	...	,, 9,600	0 2 1 12							
					Rivets, $\frac{5}{16}$″ diameter, for clips and sheeting; including 30 per cent. extra.	...	...	,, 2,100	0 0 2 14							
					Rivets, $\frac{7}{16}$″ diameter, for clips, wind ties and sheeting; including 30 per cent. extra.	...	...	2,450	0 0 3 17	28 2 6	,,					
					Rivets, ¼″ diameter, and burrs for ridge plates, including 30 per cent. extra.	...	...	,, 800	0 0 0 15							
712	24th June 1886...	6 of '86	Cuddapah Nellore (metre).		ROOFING OVER ENGINE SHEDS, 36 FEET SPAN, 133 FEET, 4 INCHES LONG, INCLUDING— 22 roof trusses, complete. 6 ditto ditto 58 angle bars for purlins, 25′ long × 3″ × 3″ × ⅜″.											

11

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any). Original F.	India Office Drawings (if any). Completion. F.	Number or Quantity contracted for. Number.	Number or Quantity contracted for. Weight.	Rate F. O. B. in England. Amount.	Rate F. O. B. in England. Unit.	Gross weight. Weight.	Gross weight. Unit.	Entire sea freight per ton to port. Rate.	Entire sea freight per ton to port. Port.	Remarks.
									T. c. q. lbs.	£ s. d.		T. c. q.		s. d.		
712 (concld.)	24th June 1886	6 of '86	Cuddapah Nellore (metre.)	Roofing, iron, in complete roofs—*contd.*	ROOFING OVER ENGINE SHEDS, 36 FEET SPAN, 133 FEET 4 INCHES LONG. *Continued from page 11.* 11 angle bars for purlins, 15′ long × 3″ × 3″ × ⅜″. 13 angle bars for purlins, 25′ long × 3″ × 3″ × ⅜″. 79 knees for purlins. 58 joint knees for purlins. 24 diagonal wind ties, together with all requisite bolts, nuts, washers and rivets.												
					Ungalvanized wrought and cast iron work as under—	561	621 1—2	2 Roofs	29 3 0 20	341	8 0	Total	30 15 1	Total	22 0	M.	For galvanized Ironwork required for these roofs, see page 13.
					For one roof.											
					T bar rafters				3 2 3 26	12	2 0	Ton.				
					T bar struts				0 13 2 7							
					Flat bar ties				2 4 0 20							
					T bar shoes				0 5 2 2							
					Gusset plates				1 7 1 18							
					Standards for ventilators				0 3 1 20							
					Washer plates for holding-down bolts				0 2 1 26							
					Holding-down bolts and washers				0 3 1 21	20	0 0	,,				
					Angle bar purlins and brackets				5 8 2 2	10	0 0	,,				
					Wind ties, ¾ inch diameter				0 4 1 21	12	2 0	,,				
					Bolts for ditto				0 0 1 8							
					Rivet heads and spare rivets, say 5 per cent.				0 13 3 7	20	0 0	,,				
					Service bolts and washers				0 1 2 0							

12

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any). Original F.	India Office Drawings (if any). Completion F.	Number or Quantity contracted for. Number.	Number or Quantity contracted for. Weight.	Rate F. O. B. in England. Amount.	Rate F. O. B. in England. Unit	Gross weight. Weight.	Gross weight. Unit	Entire sea freight per ton to port. Rate.	Entire sea freight per ton to port. Port.	Remarks.
					ROOFING OVER ENGINE SHEDS, 36 FEET SPAN, 133 FEET 4 INCHES LONG.				T. c. q. lbs.	£ s. d.		T. c. q.		s. d.		
714	24th June 1886	6 of '86...	Cuddapah Nellore (metre).	Roofing, iron, complete roofs—*concld.*	*Galvanized ironwork as under* — ... *For one roof*—	561	...	Two roofs	22 19 2 0	272 7 2	Total	25 12 0	Total	25 0	M.	For ungalvanized Ironwork required for these roofs, see page 12.
					Corrugated sheets, 6′ 2″ long × 2′ 6″ centres, each 44·4 lbs.			No. 444	8 16 0 2	10 15 0	Ton.					
					Corrugated sheets, 3′ 7″ long × 2′ 6″ centres, each 25·8 lbs.			,, 57	0 13 0 15							
					Ridge plates at ends, 5′ 4″ × 1′ 9″ × ⅜″.			,, 2	0 0 3 13	0 3 6	Lineal foot.					
					Wind bars, 20′ 3″ × 1½″ × ¼″			,, 58								
					Ditto 25′ 7½″ × 1½″ × ¼″			,, 13	0 19 0 6	10 0 0	Ton.					
					Ditto 15′ 7½″ × 1½″ × ¼″			,, 11								
					Sheet clips, ·7 lbs. each			,, 2,016	0 12 2 11	22 0 0	,,					
					Gutters and covers			,, 5	0 4 1 16	0 3 6	Lineal foot.					
					Rivets and burrs for sheeting			,, 11,600	0 1 1 23	22 0 0	Ton.					
					Rivets for clips, $\frac{5}{16}$ inch diameter			,, 6,100	0 1 3 0							
					Rivets for gutters ¼ inch diameter			,, 160	0 0 0 3							
					Zinc flashing 7′ 9″ × 9″ × No. 16 zinc gauge, and 26 oz. per square foot.			Lengths 6	0 0 1 23	26 0 0	Cwt.					

13

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

CLASS F—STATION MATERIALS AND FENCING.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office drawings (if any). Original F.	India Office drawings (if any). Completion F.	Number or quantity contracted for. Number.	Number or quantity contracted for. Weight.	Rate F. O. B. in England. Amount.	Rate F. O. B. in England. Unit.	Gross weight. Weight.	Gross weight. Unit.	Entire sea freight per ton to port. Rate.	Entire sea freight per ton to port. Port.	Remarks.
									T. c. q. lbs.	£ s. d.		T. c. q.		s. d.		
713	24th June 1886	2 of '86-'87	Northern Bengal (metre).	Roofing, iron, spare parts of—	Sheets, iron, corrugated, galvanized, 6 feet long × 2′ 9″ × 20 B. W. G.	...	...	No. 355	4 12 0 6	10 15 0	Ton	38 18 1	Total	Not known.	C.	
					Sheets, iron, corrugated, galvanized, 7 feet long × 2′ 9″ × 20 B. W. G.	...	...	„ 484	7 15 1 27							
					Sheets, iron, corrugated, galvanized, 8 feet long × 2′ 9″ × 20 B. W. G.	...	...	„ 1,411	25 6 3 27							
					Guttering, 7 feet long × 14 B. W. G. ...	601 & 602	...	„ 350	5 18 3 0	0 0 9	Lineal foot.	8 18 0	„	„	C.	
					Ridging, 6 feet long × 16 B. W. G. ...			„ 375	2 3 2 3	0 0 5	„					
687	9th March 1886	15 of '85	Sind Punjab and Delhi. (5′ 6″)		Sheets, iron, corrugated, galvanized, for wagons, 8 feet 6 inch radius, 11 feet long × 2 feet 11 inches × 18 B. W. G.	...	...	„ 400	12 11 0 4	13 17 6	Ton	45 16 2	„	16 9	K.	Sea freight charged on measurement tonnage. Actual gross weight Tons 17 18 0 18 This Contract should have been let under class E, Rolling stock.

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

CLASS F—STATION MATERIALS AND FENCING.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office drawings (if any). Original F.	India Office drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount.	Rate F. O. B. in England. Unit.	Gross weight. Weight.	Gross weight. Unit.	Entire sea freight per ton to port. Rate.	Entire sea freight per ton to port. Port.	Remarks.
									£ s. d.		T. c. q.		s. d.		
700	20th April 1886	2 of '86	Katni Umaria (Billaspur Etawa).	Signals, semaphore, distant.	Complete, except post and spare lamps	404 1—6 9—10	609 1—11	Sets 2	18 3 0	Set	...	...	16 0	B.	6 photos and 3 sets of tracings, £ 4-16-3.
„	Ditto ...	2 P. R. of '85.	Lucknow Sitapur Sihramau.		Complete, exclusive of posts ...	„	„	„ 28	18 3 0	„	* 38 19 2	Total	16 0	B.	* Includes gross weight of Items marked (c) below and on page 16.
708	22nd June 1886	7 of '86	Bellary Kistna ...		Ditto ditto ...	„	619 1—11	„ 36	18 3 0	„	† 74 11 2	„	22 0	M.	† Includes gross weight of Items marked (d) below and on page 16.
725	8th September 1886.	3 of '86	Burma ...		Ditto ditto ...	„	623 1—11	„ 4	18 3 0	„	‡ 5 4 1	„	25 0	R.	‡ Includes gross weight of Items marked X on page 16.
727	7th October 1886	25 of '86	Sind Pishin ...		Ditto ditto ...	„	...	„ 23	18 3 0	„	§ 29 17 1	„	25 0	K.	§ Includes gross weight of Items marked (e) on pages 16 and 17.
735	29th October 1886.	26 of '86	Pishin Valley Reserve.		Ditto ditto ...	„	636 1—11	„ 20	18 3 0	„	¶ 26 7 3	„	30 0	K.	¶ Includes gross weight of Items marked (f) on pages 16 and 17.
700	20th April 1886	2 of '86	Katni Umaria (Billaspur Etawa).	Signals, semaphore, station.	Complete, except post and spare lamps	404 1—6 9—10	609 1—11	Set 1	6 1 0	Set	...	...	16 0	B.	(c) and (d)—*Vide* remarks above.
„	Ditto ...	2 P. R. of '85.	Lucknow Sitapur Sihramau.		Complete, exclusive of posts ...	„	„	„ 11	6 1 0	„	(c)	...	16 0	B.	
708	22nd June 1886	7 of '86	Bellary Kistna...		Ditto ditto ...	„	619 1—11	„ 18	6 1 0	„	(d)	...	22 0	M.	

CLASS F—STATION MATERIALS AND FENCING.

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

CLASS F—STATION MATERIALS AND FENCING.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any). Original F.	India Office Drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount. £ s. d.	Rate F. O. B. in England. Unit.	Gross weight. Weight. T. c. q.	Gross weight. Unit.	Entire sea freight per ton to port. Rate. s. d.	Entire sea freight per ton to port. Port.	Remarks.
725	8th September 1886.	3 of '86...	Burma ...	Signals, semaphore, station—*concld.*	Complete, exclusive of posts ...	406 / 1—6		Sets 2	6 1 0	Set	(X)	...	25 0	R.	NOTE.—Photos @ £ 0-1-0 per copy. Tracings @ £ 1-12-1 per set charged for signals.
727	7th October 1886	25 of '86	Sind Pishin ...			404	623								
735	29th October 1886	26 of '86	Pishin Valley Reserve.		Ditto ditto ...	9—10	1—11	„ 9	6 1 0	„	(e)	...	25 0	K.	
					Ditto ditto ...	„	636 / 1—11	„ 10	6 1 0	„	(f)	...	30 0	K.	
700	20th April 1886	2 P. R. of '85	Lucknow Sitapur Sihramau.	Signals, spare parts of—	Glasses for spectacles, large, red			No. 108	0 0 11	Each	(c)	...	16 0	B.	(c), (d), (e), (f) and (X)—*Vide* remarks on page 15.
		2 of '86	Katni Umaria ...		Ditto ditto green			„ 48	0 1 2	„					
					Ditto small do.			„ 60	0 0 5	„					
708	22nd June 1886	7 of '86	Bellary Kistna...		Wicks			Gross 42	0 1 7	Gross					
					Glasses for spectacles, large, red			No. 144	0 0 11	Each					
					Ditto ditto ditto, green			„ 72	0 1 2	„					
					Ditto ditto small, green			„ 72	0 0 5	„	(d)	...	22 0	M.	
					Wicks			Gross 54	0 1 7	Gross					
725	8th September 1886.	3 of '86	Burma ...		Glasses for spectacles, large, red			No. 16	0 0 11	Each					
					Ditto ditto green			„ 8	0 1 2	„					
					Ditto small, ditto			„ 8	0 0 5	„	(X)	...	25 0	R.	
					Wicks			Gross 6	0 1 7	Gross					

CLASS F—STATION MATERIALS AND FENCING.

CLASS F—STATION MATERIALS AND FENCING.

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any). Original F.	India Office Drawings (if any). Completion	Number or quantity contracted for.	Rate F. O. B. in England. Amount. £ s. d.	Rate F. O. B. in England. Unit.	Gross weight. Weight. T. c. q.	Gross weight. Unit.	Entire sea freight per ton to port. Rate. s. d.	Entire sea freight per ton to port. Port.	Remarks.
727	7th October 1886	25 of '86	Sind Pishin ...	Signals, spare parts of—*concld.*	Glasses for spectacles, large, red ...	...	...	No. 82	0 0 11	Each					(e) *and* (f)—*Vide* remarks on page 15.
					Ditto ditto ditto, green ...	...	...	„ 36	0 1 2	„					
					Ditto ditto small ditto ...	...	...	„ 46	0 0 5	„	(e)	...	25 0	K.	
735	29th October 1886	26 of '86	Pishin Valley Reserve.		Wicks	...	...	Gross 32	0 1 7	Gross					
					Glasses for spectacles, large, red ...	...	...	No. 80	0 0 11	Each					
					Ditto ditto ditto, green ...	...	...	„ 40	0 1 2	„					
					Ditto ditto small, ditto ...	...	...	„ 40	0 0 5	„	(f)	...	30 0	K.	
					Wicks	...	...	Gross 30	0 1 7	Gross					
694	19th April 1886	15 of '85	Sind, Punjab and Delhi ...	Signals; semaphore, parts of—	Wind lasses for distant signals, complete, with bolts, and coach screws, and including leading wheel centres and chain, as per Indian State Railways Standard specification for signals, as far as applicable.	...	...	No. 20	3 0 0	Each.	7 16 2	Total	14 0	K.	Sea freight charged on measurement tonnage. Actual gross weight Tons 3 0 2 24.
732	14th October 1886	25 of '86 and 26 of '86	Sind-Pishin and Pishin Valley Reserve.	Tanks, wrought-iron.	Complete 8′ × 8′ × 4′ ... *T. c. q. lbs.* Weight of one tank 1 4 3 4 ...	260	638	No. 131	10 13 10	Each.	166 15 3	Total	*17 0	K.	*T. c. q. 74 19 1 @ £ 0-17-0 per ton. 91 16 2 @ £ 0-20-0 do.
					Cast iron connection pipes for ditto, each with 9 bolts and nuts $2\frac{1}{4}'' \times \frac{3}{4}''$.	...	...	„ 65	0 4 8	Set.			20 0	K.	
745	17th December 1886.	33 of '86	Bellary Kistna...		Complete, 8′ × 8′ × 4′ ...	260	...	„ 30	10 16 10	Each.	39 0 1	Total	22 0	M.	
					Cast iron connection pipes for ditto, each with 9 bolts and nuts $2\frac{1}{4}'' \times \frac{3}{4}''$ ...	...	...	„ 15	0 4 8	Set.					

Statement shewing rates free on board in England, gross weight and sea freight per ton; of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number. F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any). Original F.	India Office Drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount. £	s.	d.	Unit.	Gross Weight. Weight. T. c. q.	Unit.	Entire Sea Freight per ton to port. Rate. s. d.	Port.	Remarks.
702	20th May 1886 ...	1 of '86	Eastern Bengal	Tickets, card, railway.	Blue	...	...	No. 500,000	0	0	9¾	1,000	11 18 0	...	21 0	C.	Sea freight charged by measurement. Includes the gross weight of the items marked (*h*) below.
719	27th July 1886...	1 of '86	Burma ...		Ditto with B. S. R.	...	...	„ 20,000	0	0	10⅛	„	(*k*)	...	27 6	R.	
746	29th December 1886.	7 of '86	North Western		Crimson, single, intermediate	...	...	„ 200,000	0	0	10⅛	„	19 3 2	Total	20 0	K.	Includes gross weight of 10,000,000 yellow tickets.
702	20th May 1886...	1 of '86	Eastern Bengal		Ditto intermediate, return	...	...	„ 500,000	0	0	9¾	„	(*h*)	...	21 0	C.	
702	20th May 1886...	1 of '86	Ditto ...		Green, 2nd class, return	...	...	„ 100,000	0	0	9¾	„	(*h*)	...	21 0	C.	
743	25th November 1886.	1 of '86	Nagpur Chattisgarh.		Red, single	...	...	„ 30,000	0	0	8¾	„			...		
„	Ditto ...	Ditto	Ditto ...		White, single	...	...	„ 5,000	0	0	8¾	„	3 4 0	Total	16 6	B.	Includes gross weight of the 2 items marked (*g*) below. Packing and delivery on contract No. 743, £8-19-6.
„	Ditto ...	Ditto	Ditto ...		„ return	...	...	„ 3,000	0	0	8¾	„					

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any). Original F.	India Office Drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount. £	s.	d.	Unit.	Gross Weight. Weight. T. c. q.	Unit.	Entire Sea Freight per ton to port. Rate. s. d.	Port.	Remarks.
702	20th May 1886...	1 of '86 ...	Eastern Bengal	Tickets, card, railway—*concld.*	Yellow, 3rd class, single	...	...	No. 5,000,000	0	0	9¾	1,000	(*h*)	...	21 0	C.	
719	27th July 1886	1 of '86 ...	Burma ...		Ditto Ditto with B. S. R.	...	...	„ 4,245,000	0	0	10⅛	„	8 0 2	Total	27 6	R.	Sea freight charged on measurement tonnage. Includes gross weight of item marked (*k*) on page 18.
689	10th April 1886	79 of '85...	Nagpur Chhattisgarh.		Ditto Ditto with I. S. R.	...	...	„ 1,000,000	0	0	10	„	2 1 2	Total	12 0	B.	
743	25th November 1886.	1 of '86 ...	Ditto ...		Ditto Ditto	...	...	„ 1,500,000	0	0	8¾	„	(*g*)	...	16 6	B.	
746	29th December 1886.	7 of '86 ...	North Western		Ditto ditto 3rd class	...	...	„ 10,000,000	0	0	10⅛	„	19 3 2	Total	20 0	K.	Includes also gross weight of 200,000 Crimson Tickets.
743	25th November 1886.	1 of '86 ...	Nagpur Chattisgarh.		Ditto Return	...	...	„ 50,000	0	0	8¾	„	(*g*)	...	16 6	B.	
675	7th January 1886	36 of '85	Sind Sagar (5' 6")	Traversers.	Carriage and wagon, 5' 6" gauge, 15 ft.	167	599	No. 1	72	10	0	Each	2 12 3	Each	17 9	K.	
706	7th June 1886 ...	7 of '86	Bellary Kistna (metre).		Ditto metre gauge ...	328	616	„ 13	78	0	0	„	7 5 0	Total	35 0	M.	
674	7th January 1888	36 of '85	Sind Sagar (5' 6")	Turntable, carriage, & wagon.	16 feet diameter, suited to the 5' 6" gauge.	323	598	No. 1	160	0	0	Each	6 13 1	Each	15 6	K.	

CLASS F—STATION MATERIALS AND FENCING.

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any). Original F.	India Office Drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount.	Rate F. O. B. in England. Unit.	Gross Weight. Weight.	Gross Weight. Unit.	Entire sea freight per ton to port. Rate.	Entire sea freight per ton to port. Port.	Remarks.
									£ s. d.		T. c. q.		s. d.		
676	7th January 1886	36 of '85	Sind Sagar (5' 6")	Turntables, engine.	50 feet diameter, suited to the 5' 6" gauge, each capable of turning an engine and tender weighing 80 tons.	559	605 / 1—3	No. 9	515 0 0	Each	307 0 0	Total	From 15*s.* to 25*s.*	K.	
704	25th May 1886	9 of '86	Bolan (5' 6") ...		Ditto ditto ...	559	618 / 1—3	„ 1	515 0 0	„	34 2 2	Each	20 0	K.	
724	22nd September 1886.	25 of '86	Sind Pishin (5' 6")		Ditto ditto ...	559	630 / 1—3	„ 4	500 0 0	„	136 10 0	Total	From 15*s.* to 29*s.* 9*d.*	K.	
734	27th October 1886	27 of '86 & 26 of '86	Ferozepore Bridge Works & P. V. Reserve (5' 6").		50 feet diameter, 5' 6" gauge, each capable of turning an engine and tender weighing 80 tons.	559	...	„ 3	495 0 0 in G lasgow.	Each	102 7 2	Total	From 18*s.* to 27*s.* 9*d.*	K.	

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office Drawings (if any). Original F.	India Office Drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount.	Rate F. O. B. in England. Unit.	Gross Weight. Weight.	Gross Weight. Unit.	Entire sea freight per ton to port. Rate.	Entire sea freight per ton to port. Port.	Remarks.
									£ s.		T. c. q.		s. d.		
692	15th April 1886	2 P. R. of '85.	Lucknow Sitapur Sihramau (metre).	Turntables, engine—*concld.*	36 feet diameter, metre gauge ...	329	613 / 1—3	No. 2	215 0 0	Each	23 7 0	Total	13 9	B.	
696	19th April 1886	C. S. K's 16 of '85.	Sind Punjab and Delhi.	Watches, guard's.	Waltham, keyless	...	...	No. 24	2 10 0	Each	0 0 2	Total	14 0	K.	Sea freight charged on measurement tonnage. Actual gross weight 21 lbs.
707	21st June 1886...	2 of '86	Northern Bengal		Open-faced, keyless, as supplied on Contract No. F621 of 1885.	...	...	„ 6	3 10 0	„	...	...	...	C.	Total gross weight 15 lbs. Sea freight one per cent. on value.
738	2nd November 1886.	3 of '86	Burma ...		Ditto to be marked "B. S. R." on back.	...	...	„ 12	3 10 0	„	0 0 2	Total	27 6	R.	Sea freight charged on measurement tonnage.
696	19th April 1886	72 of '85	Punjab Northern	Watches, guards, spare parts of—	*Fittings for American Watch Company's keyless guard's watches:—*										
					Glasses			Doz. 4	0 3 5	Total	See next page.			K.	
					Holes, jewel (cock)			„ 2	0 13 7	„					
					Ditto (foot)			„ 2	0 13 7	„					
					Hands, steel (pairs)			„ 1	0 3 5	„					
					Pallets, round			„ 1	0 6 10	„					
					Ditto and lever			No. 6	0 16 2	„					
					Pins, ruby			Doz. 2	0 3 5	„					
					Springs hair			„ 3	0 17 10	„					

16

16

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—contd.

CLASS F—STATION MATERIALS AND FENCING.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office drawings (if any). Original F.	India Office drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount.	Rate F. O. B. in England. Unit.	Gross weight. Weight.	Gross weight. Unit.	Entire sea freight per ton to port. Rate.	Entire sea freight per ton to port. Port.	Remarks.
					Continued from last page.				£ s. d.		*T. c. q. lbs*		*s. d.*		
					Fittings for American Watch Company's Keyless Guard's watches—concld.										
69 *concld.*	19th April 1886	72 of '85	Punjab Northern	Watches, guards, spare parts of—*concld.*	Springs, main	...	...	Doz. 3	0 12 9	Total	0 0 0 11	Total	Not known.	K.	
					Staff balance	...	...	„ 3	1 18 3	„					
					Stones jewel, end (cock)	...	...	„ 2	0 10 2	„					
					Ditto do. (foot)	...	...	„ 2	0 10 2	„					
					Ditto pallet (pairs)	...	...	„ 1	0 10 2	„					
					Studs metal, winding	...	...	„ 1	0 12 0	„					
					Wheels, action, keyless	...	...	Sets. 3	1 0 5	„					
688	11th March 1886	...	Punjab Northern		New movements	...	...	No. 8	1 18 0	Each	0 0 2 0	„	20 0 In full	K.	
„	Ditto	...	Ditto		Repairs to watches	...	...	„ 11	3 15 0	Total					
673	9th January 1886	36 of '85	Sind-Sagar ...	Weighing machines.	Platform, with steel yards, to weigh up to 14 maunds.	...	610/1—4 611/1—4	No. 31	9 10 0	Each	40 17 0	Total	16 9 13 3 16 6	K.	
„	Ditto	Ditto ...	Ditto ...		Platform, with steel yards, to weigh up to 28 maunds.	...	„	„ 36	11 10 0	„					
686	3rd March 1886	72 of '85	Punjab Northern		Platform, with steel yards, to weigh up to 1 ton.	...	612/1—4	„ 2	12 10 0	„	1 7 2	„	20 0	K.	
701	20th April 1886	2 P. R. of 1885.	Lucknow Sitapur Sihramau.		Platform, with steel yards, to weigh up to 28 maunds.	...	614	„ 20	11 12 0	„	16 11 2	„	13 9	B.	Tracing 10*s.* per set, photo 1*s.* 8*d.* per copy.

Statement shewing rates free on board in England, gross weight and sea freight per ton, of articles contracted for by the India Office from January to December 1886—concld.

CLASS F—STATION MATERIALS AND FENCING.

Contract. Number F.	Contract. Date.	Number of Indent.	For what Railway.	Articles.	Details.	India Office drawings (if any). Original F.	India Office drawings (if any). Completion F.	Number or quantity contracted for.	Rate F. O. B. in England. Amount.	Rate F. O. B. in England. Unit.	Gross weight. Weight.	Gross weight. Unit.	Entire sea freight per ton to port. Rate.	Entire sea freight per ton to port. Port.	Remarks.
									£ s. d.		*T. c. q.*		*s. d.*		
726	20th September 1886.	25 of '86	Sind Pishin ...	Weighing machines—*concld.*	Platform, with steel yards, to weigh up to 28 maunds.	...	...	No. 20	12 0 0	Each	16 19 2	Total	14 9	K.	Tracing 10 *s.* per set, photo 2*s.* per copy.
723	10th August 1886	1 of '86	Burma ...		Platform, with steel yards, to weigh up to 154 viss (cwt. 2, qrs. 3, lbs. 14); with steel yards graduated for English and Burmese weights (100 ticuls = 1 viss = 3·65 lbs).	...	625/1—4.	„ 10	9 0 0	„	3 14 0	„	25 0	R.	Sea freight charged on measurement tonnage.

Ports :—B—Bombay ; C—Calcutta ; K—Kurrachee ; M—Madras ; R—Rangoon.

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

for Director General of Railways.

[*General Distribution.*]

983

Circular No. 3.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

THE DIRECTOR, NORTH-WESTERN RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND STATE RAILWAY.
THE ENGINEER-IN-CHIEF, SIND-PISHIN STATE RAILWAY.
THE PORT STOREKEEPERS, STATE RAILWAY DEPARTMENT, CALCUTTA AND BOMBAY.

Simla, the 1st March 1889.

SIR,

I have the honour to forward for information and guidance a printed Statement showing the actual English rates free on board for B Class State Railway Stores, "Engineers' Plant (excluding Petty Tools) contracted for by the India Office during 1887."

2. For entire sea-freight to Indian Ports 20*s.* per ton may be added for all articles of this Class, except boilers and engines steam, portable, for which 10*s.* extra may be taken as a fair rate for shipments to the port of Kurrachee.

I have the honour to be,

SIR,

Your most obedient Servant,

E. H. STONE,
for Director General.

Documents Accompanying.
Rate List Class B—Engineers' Plant (excluding Petty Tools) for 1887.

33

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 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 Inspector General of Military Works.
The Accountant General, Public Works Department.
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 Railways, Calcutta and Lucknow.
The Consulting Engineer to the Government of India for Railways, Central Division, Jubbulpore.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

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

E. H. STONE,
for Director General.

No. 983 W dt 5th April 1889

Communicated to officers of the Public Works Department in continuation of G.O. No. 964 W dated 2nd April 1889.

Sd/ R.R.C.D.B.

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

To

THE

963

Circular No. 3.

Dated Simla, the 1st March 1889.

Received

INDIAN STATE RAILWAYS.

Rate List Class B—Engineers' Plant (excluding Petty Tools) for 1887.

G. C. Press, Simla.—No. 1401 P. W. D.—7-3-89.—1,100.

Supdg Engrs
C.A. to Govt
Exn. P.W.A
C.E. for Rys

34
85

[*General Distribution.*]

Circular No. 3.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

963

To

THE DIRECTOR, NORTH-WESTERN RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND STATE RAILWAY.
THE ENGINEER-IN-CHIEF, SIND-PISHIN STATE RAILWAY.
THE PORT STOREKEEPERS, STATE RAILWAY DEPARTMENT, CALCUTTA AND BOMBAY.

Simla, the 1st March 1889.

SIR,

I have the honour to forward for information and guidance a printed State ment showing the actual English rates free on board for B Class State Railwa Stores, "Engineers' Plant (excluding Petty Tools) contracted for by the India Office during 1887."

2. For entire sea-freight to Indian Ports 20*s.* per ton may be added for all articles of this Class, except boilers and engines steam, portable, for which 10*s.* extra may be taken as a fair rate for shipments to the port of Kurrachee.

I have the honour to be,

SIR,

Your most obedient Servant,

E. H. STONE,
for Director General.

...ments Accompanying.
...Class B—Engineers' Plant
...(Tools) for 1887.

38 87

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 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 Inspector General of Military Works.
The Accountant General, Public Works Department.
~~The Director, Persian Gulf Telegraph.~~
The Controller General.
The Accountant General, Bengal.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Railways, Calcutta and Lucknow.
The Consulting Engineer to the Government of India for Railways, Central Division, Jubbulpore.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

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

E. H. Stone
for Director General.

To
The Secretary to the Government of Madras
Public Works Department.

SECRETARY TO GOVERNMENT
-1 APR. 89
P.W. DEPARTMENT, MADRAS.

Communicated to officers of the Public Works Dept in continuation of G.O. No. 264 dated 2nd April 1889

2.4.89

To Supdg Engrs
The C.A. & Genl
" Exer: P.W.A.
" C.E. to Govt

FROM

THE DIRECTOR GENERAL
RAILWAYS,

To

THE

Circular No. 3.

Dated Simla, the 1st March 1889.

Received

INDIAN STATE RAILWAYS.

R.— List Class B—Engineers' Plant (excluding Petty Tools) for 1887.

G. C. Press, Simla.—No. 1401 P. W. D.—7-3-89.—1,