(1) பக்கங்களின் எண்ணிக்கை 36

(2) புதுக்கித் திருப்பிய நாள் 6/89

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

நிருவாகவியல் துறை

அரசாணை எண்.
மு. கோப்புத் தாள் எண். 2120

அச்சகம்
பலவகை

நாள் : 6-8-1889 1988.

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

ஆவண. கா-1—18,006—15-6-87.

2120
1

[*General Distribution.*]

Circular No. 9.

FROM

THE DIRECTOR GENERAL OF RAILWAYS.

TO

THE DIRECTOR, NORTH-WESTERN RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND RAILWAY.
THE ENGINEER-IN-CHIEF, SIND-PISHIN STATE RAILWAY.
THE AGENT AND CHIEF ENGINEER, DELHI-KALKA RAILWAY.
THE PORT STORE-KEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Simla, the 1st July 1889.

SIR,

I have the honour to forward herewith, for information and guidance, a printed statement showing the actual English rates for F Class Stores "Station Materials and Fencing," contracted for by the Stores Department of the India Office during 1887.

I have the honour to be,

SIR,

Your most obedient servant,

L. CONWAY-GORDON,
Director General of Railways.

Documents accompanying.

Rate List, Class F—"Station Materials and Fencing,"—for 1887.

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 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 marginally noted for information.

L. CONWAY-GORDON,
Director General of Railways.

2120
2

No 2120 dated 8th August 1889

Cond. & Appdx of the Bd's communication of No. 1379 dated 22nd Aug 89.

S/, W.L.B.

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

TO

Circular No. 9.

Dated Simla, the 1st July 1889.

Received.

No 2120 dated 8th August 1889

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Ep. Mor.

Rate List, Class F—"Station Materials and Fencing"—for 1887.

G. C. Press, Simla.—No. 321 P. W. D.—4-7-89.—1,100.

2120/3

[*General Distribution.*]

Circular No. 9.

FROM

THE DIRECTOR GENERAL OF RAILWAYS.

TO

THE DIRECTOR, NORTH-WESTERN RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND RAILWAY.
THE ENGINEER-IN-CHIEF, SIND-PISHIN STATE RAILWAY.
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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 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 marginally noted for information.

L. CONWAY-GORDON,
Director General of Railways.

2120/4

Copy of letter from Secretary to Govt. of India, Public Works Department, No. 2120 dated the 22nd August 1889.

Comd. to Officers of the N.W.P. in continuation of P.W.D. No. 379 dated 22nd Aug. 1889.

1st Note C.B.

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

TO

Circular No. 9.

Dated Simla, the 1st July 1889.

Received.

Rate List, Class F—"Station Materials and Fencing"—for 1887.

1 Ex.
2 C.A.
Ex. Note.

G. C. Press, Simla.—No. 321 P. W. D.—4758,—1,100.

[*General Distribution.*]

Circular No. 9.

FROM

THE DIRECTOR GENERAL OF RAILWAYS.

TO

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

Simla, the 1st July 1889.

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L. CONWAY-GORDON,
Director General of Railways.

Documents accompanying.

Rate List, Class F—"Station Materials and Fencing,"—for 1887.

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.
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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 marginally noted for information.

L. CONWAY-GORDON,
Director General of Railways.

220/6

21/20
4

2120/8

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

TO

Circular No. 9.

Dated Simla, the 1st July 1889.

Received.

Rate List, Class F—"Station Materials and Fencing"—for 1887.

G. C. Press, Simla.—No. 331 F. W. D.—4-7-89.—2,100.

Enclosure to Director General of Railways' Circular No. 9 of 1889.

RATE LIST.

CLASS F.

STATION MATERIALS AND FENCING

FOR 1887.

CLASS OF STORES F.—STATION MATERIALS AND FENCING.

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
27	Apparatus, washing-out.	For Locomotive boilers	11	15	0	Each set.	
		Tracings	0	15	0	Set.	
		Photographs	0	1	0	Copy.	
405		For Locomotive boilers	12	0	0	Per set.	
406	Clocks.	Station	7	5	0	Each.	
424		Station	7	5	0	„	
F 761	Cranes, water; pillar, long neck.	6″ with pipes complete	27	14	8	Each.	
51		Ditto	27	0	0	„	
107		Ditto	27	0	0	„	
408		Ditto	25	10	0	„	£ s. d. £ s. d. Tracings 0 16 6 per set. Photos. 0 3 0 per copy.
385		*Without piping*	19	15	0	Each.	
„	*Piping*	*For cranes, water, pillar*	7	15	0	Per set.	

2126/19

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
143	Engines, steam, pumping.	With boilers complete. 6 H.P. with suitable pumps for supplying water for the use of locomotives from wells 100 feet deep.	257	10	0	Each.	
		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 „ 0 „					
		Diameter of pump-barrel ... ... 6 „					
		Stroke of pumps (double acting) ... 12 „ to 8 „ changeable					
		Number of pumps (double acting), two					
190	Fencing, wire, complete.	*4 wire barb single line 12 miles*, with 1 pair of pincers, 1 pair of splices, 1 winding strainer for standard, also 1 lever-stretcher.	39	0	10	Mile.	
„		*4 wire barb single line 40 miles*, with earth-plates and wedges, 2 pairs of pincers, 2 pairs of splices, 2 winding strainers and 2 lever-stretchers.	39	0	0	„	
265		Galvanised strained wire fence, 5 ft. high with 5 lines of galvanised barbed wire, with standard 15 ft. apart. The supports to be strong T irons, standard $1\frac{1}{2}'' \times 1\frac{1}{2}'' \times \frac{3}{8}''$ driven 2′ 6″ into the ground.	32	13	0	„	Estimated weight of wire ... ... c. qr. lbs. 16 2 2 Do. do. standards ... 50 1 4 Number of straining posts per mile 9. Weight each 200 lbs. with base and stay. Number of intermediate posts per mile 352. Weight about ... c. qr. lbs. 50 1 4 Weight of barb wire per mile 370 lbs.

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
482	Fencing, wire; materials for—	Winding pillars with stays and spanners for 12 miles of barb fencing supplied on contract No. 190 (see page 2).	78	0	9	For 75	(Spanners 6, Stays 12.)
512		Winding pillars No. 250 Stays „ 40 Spanners „ 20 } For 40 miles of barb fencing complete supplied on contract No. 190 (see page 2).	260	1	10	Total.	
33		t. c. qr. lbs. 9,020=12 12 1 7 Bolts, eye, straining, galvanized, with nuts and washers (1′ 7½″ long, weighing 3·133 lbs. each).	14	15	0	Ton.	
375		Bolts, eye, straining, galvanized, with nuts and washers	14	12	0	„	
58		Posts, iron (wrought), intermediate, for fencing with 5 lines of wire (estimated weight of each 12·2 lbs.)	4	15	0	„	
373		Ditto ditto	4	19	0	„	
58		Posts, iron (wrought), stiffening, for 5 lines of wire (weighing 35·5 lbs. each) ...	4	15	0	„	
373		Ditto ditto	6	0	0	„	
57		Posts, iron (cast), straining (weighing 2 cwt. 1 qr. 7 lbs. each)	3	15	0	„	
378		Ditto ditto	3	14	6	„	
57		Sockets (or bases), iron (cast), pointed (weighing 20 lbs. each)	3	5	0	„	
379		Ditto ditto	3	4	6	„	

2120/D

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
57	Fencing, wire; materials for—*contd.*	Wedges, wrought-iron (weighing 5·8 oz. each)	12	10	0	Ton.	
373		Ditto ditto	12	10	0	„	
34		Wire, strand, of 450 yards each, galvanized, 14 B. W. G, 7 strands	10	12	6	„	
374		Ditto ditto	10	12	6	„	
265	Gates ...	With wicket, 5′ 10″ wide, both unclimbable, with 3 posts fitted with stays, straining arrangements and bases complete.	11	0	0	Each.	
„		Wicket with 2 posts fitted with stays, straining arrangements and bases complete ...	4	10	0	„	
„		1 post fitted with stays, straining arrangements and bases complete	1	10	0	Set.	Set consisting of pillars, base and stay.
F 766	Hydrants ...	With gun-metal cocks on tap, hose unions, branch pipes and nozzles, with 30 ft. hose	8	5	0	Each.	
„		Without gun-metal cocks on tap, but with ¾″ Solly's spring cock for drinking water, with hose unions, branch pipes and nozzle.	7	15	0	„	
„		2″ quarter bends screwed joints, galvanized iron, for above	0	2	0	„	
„		2″ Tee pieces for above	0	1	7	„	
18		With hose and nozzles complete	7	10	0	„	
84	Latrines	Macfarlane's patent foot-rest latrines for 8 persons. Outside and division screens 7 ft. high and inside division wall 5 feet high, roofed over, arranged for removal of pans at back, with iron pans and 2 trapped gulleys.	74	19	2	Each.	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
45	Pipes, iron, cast ...	Double flanged, 3″ bore, ⅜″ thick, in 9′ lengths (flanges 7¾″ diameter and ⅜″ thick)	0	0	9½	Foot.	
„		Double flanged, 6″ bore, $\frac{7}{16}$″ thick, in 9′ lengths (flanges 11½″ diameter and ¾″ thick)	0	1	7	„	
505		Straight, 9 feet lengths, ex-socket, 6 inch internal diameter, plain ends, spigot and socket.	4	1	6	Ton.	Estimated weight of a pipe is ... c. qr. lbs. 2 1 27
520		Spigot and socket in 9 feet lengths, 6″ bore, $\frac{7}{16}$″ thick	4	12	6	„	Weight per length 2 1 27
„		Ditto 10 do. 6″ „ $\frac{7}{16}$″ „					Ditto 2 3 2
45	Pipes, iron, cast; connections for—	Bends, double flanged for 6″ pipes	0	10	0	Each.	
„		Tee pieces for 6″ pipes	0	15	0	„	
F 767		Bends, right angle for 2″ socket and spigot pipe	0	7	6	„	
F 764	Pipes, iron, wrought.	15 feet length, with screwed ends, 2″ internal diameter, ¼″ thick (mild steel), weldless steam).	0	3	0	Foot.	
123		15 feet lengths, with screwed ends, 3″ internal diameter	0	1	6	„	Separate rates have not been quoted for bends and Tee pieces.
„		Ditto do. 1½″ do.	0	0	5	„	
„		Ditto do. 1″ do.	0	0	3	„	
„		Ditto do. ⅝″ do.	0	0	2	„	
480		15 ft. lengths, with screwed ends, 4″ diameter, ¼″ thick	0	1	6	Foot.	
„		Ditto ditto 2″ „ $\frac{5}{16}$″ „ fitted with a socket and coupling.	0	0	6	„	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
F 764	Pipes, iron, wrought; connections for—	Bends, right angle, for 2" pipes	0	6	0	Each.	
		Couplings or joint pieces for 2" pipes	0	3	0	"	
486	Pipes, stone-ware ...	Glazed (Drain earthenware), 18" diameter, 30" long	0	2	7	Foot.	
351	Presses, dating.	To print date with type in boxes, complete	2	5	0	Each.	
409		To indent and ink the date with type in boxes, complete	2	4	0	"	
425		To print date	1	12	3	"	Packing and delivering F. O. B.
"		*Type in boxes for above*	0	16	6	Box.	£ 3-16-6 for 33 presses.
136	Pumps ...	Double cylinder, hand power	25	4	9	Each.	£ s. d. Tracings 0 12 0 set.
		Each pump is provided with—					Photographs 0 1 0 copy.
		40 ft. of 2½" galvanized lap-welded wrought-iron suction pipe, with flanges and wind bore.					
		15 ft. of 2½" galvanized lap-welded wrought-iron delivery pipe, with flanges.					
		3 wrought-iron elbows, with flanges, to fit the straight piping, 1 cup, with screw for shaping bucket leathers.					

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
F755	Pumps	Steam, low lift—known as Cameron's patent	59	0	0	Each.	Approximate weight of pump unpacked 22 cwts.
		The pump is vertical and is to work with a single ram. The steam cylinder is 7" diameter with a piston stroke of 5 inches. The pump is capable of delivering 3,900 gallons per hour to a height of 80 feet, with a steam pressure of 50 lbs. per square inch.					
		Tracings	3	5	0	Set.	
		Photographs	0	1	6	Copy.	
F752	Ditto	Steam. Tangye's direct acting "Special" pump and boiler, complete	235	0	0	Each	Ditto ditto 95 cwts.
		The pump is capable of lifting 13,000 gallons of water per hour to a height of 90 feet above the level of pump with—					
		Steam cylinder 10 inches diameter.					Tracings ... 3 15 0 set.
		Water " 8 " "					Photographs ... 0 2 6 copy.
		and a Stroke of 18 "					
		Diameter of suction and delivery branches 6 inches.					
		The boiler is of the vertical type, 9 feet 6 inch high and 3 feet 9 inch external diameter, and is to work at a steam pressure of 60 lbs. per square inch					

13/2220

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on Board. Amount. £	s.	Unit.	Remarks.
518	Pumps, Worthington, complete—	Two Worthington Pressure Pumps, each having— Two high pressure steam cylinders, each 12″ in diameter. Two double acting water plungers „ 4½″ „ All having a uniform stroke of 10 inches. Size 12″×4½″×10″.	210	0	Each.	
		Two Worthington Pressure Pumps, each having— Two high pressure steam cylinders, each 10″ in diameter. Two double acting Waterplungers, each 3½″ „ All having a uniform stroke of 10 inches. Size 10″×3½″×10″. Also— Two 12 horsepower nominal locomotive multitubular boilers with Colonial Firebox; suitable Worthington Boiler Feed Pumps; injector as duplicate feed with the necessary connections to the boilers; also for 10 feet of 2″ copper piping and flange and extra 2½″ brass stop valve; 24 feet of 3 inch wrought-iron exhaust piping with bends, sockets and locknuts; the boilers to be lagged with wood on the barrel parts, covered with sheet iron and painted. Set of firing tools, spanners, 3 sets of working drawings and 12 photographs.	420	0	Each.	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
518	Pumps, Worthington, complete—*concld.*	Two Worthington Pressure Pumps, each having— Two high pressure steam cylinders, each 10 inches in diameter. Two double acting plungers, each 5½ inches in diameter. All having a uniform stroke of 10 inches. Size 10″ × 5½″ × 10″.	175	0	0	Each.	
F 747 & 749	Roofing, iron, complete roofs.	*Roofing over two goods sheds, 80 feet span, 100 feet long*	390	0	0	Total.	
F 747		The ungalvanized wrought and cast-ironwork for 2 roofs	196	0	0	„	Estimated weight of ungalvanized ironwork in roof for goods shed t. 7 c. 12 q. 0 lbs. 12
		Wrought-ironwork in Trusses, Bearing plates and in T bars ...	13	4	0	Ton.	
		„ „ in Purlins and knees	11	0	0	„	
		Diagonal wind ties	25	0	0	„	
		Bolts, nuts and washers	22	0	0	„	
F 749		The whole of the galvanized ironwork for 2 iron-roofs, including sheeting, ridge plates, wind ties, clips, rivets and burrs	194	0	0	Total.	Estimated weight of galvanized wrought ironwork ... 7 4 0 7
		Clips for iron sheeting	24	0	0	Ton.	
		Iron, corrugated, galvanized	12	0	0	„	
		Galvanized wrought-iron ridge plates ...	0	1	6	per ft. run.	
		„ „ rivets and burrs ...	24	0	0	Ton.	
		„ „ wind ties ...	11	0	0	„	

2120/19

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.	£	s.	d.
62	Roofing, iron, complete roofs—*contd.*	*Roofing over two repairing shops, each 112 feet long × 84 feet wide*					Cost of ungalvanized ironwork ...	5,776	0	0
		Roofing over running shed, 112 feet long × 56 feet wide								
		Roofing over repairing shop, 308 feet long × 140 feet wide	8,236	0	0	Total ...				
		Ditto 140 „ × 112 „								
		Ditto 112 „ × 28 „					„ galvanized „ ...	2,460	0	0
		Wrought-ironwork in Trusses, Bearing plates on walls, &c. ...	9	5	0	Ton.				
		Ditto Purlins, knees and window sills ...	7	15	0	„				
		Ditto Girders and columns	8	14	0	„		t.	c.	q. lbs.
							Estimated weight of galvanized ironwork	30	14	1 26
141 & 158		*Roofing over carriage shed, 192 feet long × 52 feet wide, in 2 bays*					Estimated weight of ungalvanized iron work	36	6	3 0
		Ditto Coal „ 108 „ × 30 „ in 1 bay	1,529	9	8	Total.	Estimated weight of galvanized ironwork	38	19	2 8
		Ditto Goods „ 108 „ × 30 „ in 1 bay					Estimated weight of ungalvanized ironwork	42	13	2 6
141		Whole of the galvanized ironwork for the roof of above	798	3	4	Total.				
„		Galvanized wrought-iron corrugated sheets 18 B. W. G. ...	10	10	0	Ton.				
„		Ditto ridge plates 14 B. W. G. and gutters ...	15	0	0	„				

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CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.	t.	c.	qr.	lbs.
141	Roofing, iron, complete roofs—*contd.*	Galvanized wrought-iron wind ties	10	10	0	Ton.					
„		Ditto clips for sheets and down pipes ...	20	0	0	„					
„		Ditto rivets and burrs	20	0	0	„					
„		Ditto wood screws	25	0	0	„					
„		Ditto down pipes	23	10	0	„					
„		Cast-iron down pipes (ungalvanized)	14	0	0	„					
158		Whole of the ungalvanized wrought and cast-ironwork for the roofing over carriage shed and coal and good sheds.	731	6	4	Total ...	Estimated weight	79	0	1	6
„		Wrought-ironwork in Trusses, Bearing plates and in T bars at bearing ...	8	9	0	Ton.					
„		„ in Purlins and knees	9	0	0	„					
„		Diagonal Wind Ties	9	2	6	„					
„		Bolts, Nuts and Washers	13	0	0	„					
399 & 400		*Roof over 3rd Class Waiting Shed at Mandalay, 142' 6" long × 49 feet wide in two bays; and awning over Platform, 160 feet long × 15 feet wide.*	749	6	0	Total ...	Total estimated weight	72	18	3	11
399		Whole of the galvanized ironwork	255	16	3	Total ...	Estimated weight	20	2	1	17
„		Galvanized wrought-iron corrugated sheets 18 B. W. G. ...	11	10	0	Ton.					
„		Ditto ridgeplates, flashings and gutters ...	16	0	0	„					

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5/220/12

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
399	Roofing, iron, complete roofs—*contd.*	*Galvanized ironwork*—contd.					
"		Galvanized wrought-iron wind ties	10	10	0	Ton.	
"		" clips for sheets and downpipes ...	19	0	0	"	
"		" rivets and burrs	21	0	0	"	
"		" woodscrews	26	0	0	"	
"		" downpipes	25	0	0	"	
"		Cast-iron downpipes (ungalvanized)	15	10	0	"	
400		Ungalvanized wrought and cast-ironwork for 3rd class Waiting Shed	493	9	9	Total ...	Estimated weight t. c. qr. lbs. 52 16 1 22
"		Wrought ironwork in Trusses, Girders, Purlins, and knees	10	5	0	Ton.	
"		" in columns	10	10	0	"	
"		Diagonal wind ties	25	0	0	"	
"		Bolts, Nuts, and Washers	19	0	0	"	
431 & 432		*Roofing complete for one Engine Shed, 81 ft. long × 36 ft. wide*	154	12	4	Total ...	Estimated weight t. c. qr. lbs. 15 4 2 4
"		*Ditto for one Goods Shed 100 " " × 30 " "*	137	14	3	"	Ditto 15 3 3 10
"		*Ditto for two Goods Sheds, each 60 ft. long × 30 ft. wide*	204	18	3	"	Ditto *in two sheds* 19 15 2 8

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CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
431	Roofing, iron, complete roofs—*contd.*	*Ungalvanized wrought-ironwork for the above roofs*—					
"		Wrought-ironwork in Trusses, Bearing Plates, and T Bars at bearings ...	9	0	0	Ton.	
"		Ditto in Purlins and Knees	7	10	0	"	
"		Ditto in Wind Ties	20	0	0	"	
"		Bolts, Nuts, and Washers	20	0	0	"	
432		*Galvanized ironwork for the above roofs*—					
"		Galvanized Wrought-iron corrugated sheets and ridgeplates ...	11	0	0	Ton.	
"		Ditto Wind Ties	10	10	0	"	
"		Ditto Clips for sheets and rivets and burrs ...	22	15	0	"	
F757	Roofing, iron; spare parts of—	Gutters	0	1	0	Foot.	
129		Iron, hoop, galvanized, 1½" wide and 15 B. W. G. thick	18	0	0	Ton.	
F756		Iron, sheets, corrugated, 7′ × 2′ 6″ × 20 B. W. G. after galvanizing	11	15	0	"	
F757		Ditto ditto galvanized, assorted lengths × 2′ 9″ × 20 B. W. G. ...	11	15	0	"	
F758		Ditto ditto galvanized 7′ 0″ × 2′ 9″ × 20 B. W. G.	12	10	0	"	
129		Ditto ditto ditto 6′ 7′ and 8′ long 24 gauge	11	10	0	"	
F754		Ditto ditto plain, galvanized, 8′ × 3′ × 20 B. W. G.	11	17	6	"	
"		Ditto ditto ditto 8′ × 3′ × 14 "	11	7	6	"	

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CLASS OF STORES F.—STATION MATERIALS AND FENCING—contd.

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
F758	Roofing iron; spare parts of—*concld.*	Iron ridge-capping for galvanized roofing sheets 6′ × 1′ 9″	0	2	0	Foot.	
F757		Ridgeplates	0	0	6	„	
F756		Rivets and burrs at 6 ozs. per dozen	23	15	0	Ton.	
F758		Ditto ditto	24	0	0	„	
129		Rivets, iron, galvanized	24	0	0	„	
F758		Screws, galvanized, 3½″ long at 10 oz. per dozen	35	0	0	Ton.	
129		„ „ 2½″ „	34	0	0	„	
„		„ „ 1½″ „	45	0	0	„	
„		Washers, iron, galvanized for both screws and rivets	24	0	0	„	
F770	Safes, cash, iron.	Ordinary, *not fireproof*, 24″ × 15″ × 15″	5	12	6	Each.	
422		„ *fireproof*, 36″ × 30″ × 24″	14	12	6	„	
„		„ „ for stations, 36″ × 30″ × 30″	16	10	0	„	
F750	Signals, Semaphore, Distant.	Complete (exclusive of wooden post), Distant	18	3	0	Each.	
F762		„ (without posts) with Blood's patent lever Distant	18	3	0	„	For Junaghad Railway.
„		„ L.S.R. pattern, except that the wires are to be worked by a winch and iron hand wheel, like the steering wheel of a ship. (The pull over lever and frame and wire compensating apparatus will not be required.)	17	18	0	„	

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CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
F773	Signals, Semaphore, Distant—*concld.*	Complete (without post) Distant	18	3	0	Each	
423		„ „ „	12	15	0	„	
F759		„ (without lamps and posts) „	17	2	0	„	
F750	Signals, Semaphore, Station.	Complete (without posts) Station	6	1	0	Each.	
F762		„ (ditto) „	6	1	0	„	
F773		„ (ditto) „	6	1	0	„	
423		„ (ditto) „	9	0	0	„	
F759		„ (without *lamps and posts*) „	4	18	0	„	
F750	Signals, Semaphore; spare parts of—	Glasses, spectacle, green, large	0	1	2	Each.	
F762 & F773		Ditto ditto small	0	0	5	„	
423		Ditto red, large	0	0	11	„	
„		Ditto green, large	0	3	0	„	
„		Ditto ditto small	0	0	9	„	
F762		Ditto red „	0	3	0	„	
„		Wicks	0	1	7	Gross.	
		Winches spare for distant signals with hand wheels, bolts, coachscrews, leading, wheel, centre and chain	2	16	0	Each.	

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CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
F 765	Signals (Apparatus), Interlocking.	Complete for Kotal Station, 1 set	1,038	0	11	Set.	
,,		Ditto Quetta ditto	1,080	6	3	,,	
F 772	Signals, Interlocking ...	Complete with tramway switches and with 2 gates which are to be worked from the signal box.	469	7	4	2 sets.	
287	Signal (Apparatus), Interlocking (points and signal).	Fittings for (same design and quality as that in use at the Sealdah Station) ...	317	0	0	Set.	
40	Tanks, wrought-iron, complete.	For water 8′ × 8′ × 4′	11	0	0	Each	Tracings 10*s.* a set.
461		Ditto ditto	12	0	0	,,	Ditto.
477		Ditto 4′ × 4′ × 4′ (made of steel plates $\frac{3}{16}$″ thick)...	6	0	0	,,	Galvanized.
45		16 B. W. G. thick *for oil*, capacity 4 gallons	0	10	0	,,	
49	Tanks, wrought-iron; materials for—	Pipes, connecting with bolts and nuts	0	4	6	Each.	
461	Ditto ...	Ditto ditto	0	7	6	Each.	
356	Traversers, carriage and wagon, metre gauge.	Complete, 28 feet long over all. If with gearing which would require 2 men to move, whereas it would take 15 to 20 men to push without gearing.	156	10	0	Each.	Tracings 10*s.* a set. Photos 2*s.* 6*d.* a copy.

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
87	Tyres for Traversers ...	Tyres, steel, for traversers for the Eastern Bengal Railway	2	5	0	Each.	
298	Turntables, carriage and wagon, 5′ 6″ gauge.	18 feet diameter, of the central balance description. Capable of turning a carriage or wagon weighing 27 tons.	205	10	0	Each.	Approximate weight 12¼ tons.
497	Ditto ...	20 feet diameter, total wheel base of 16 feet...	165	0	0	,,	Approximate weight 11¼ tons.
F769	Turntables, Engine, 5′ 6″ gauge.	50 feet diameter, of the central balance description. Capable of turning an engine and tender weighing 80 tons.	495	0	0	Each.	
70	Ditto ...	Ditto ditto ditto ditto ditto ...	495	0	0	,,	Approximate weight 34 tons.
F768	Turntables, Engine, metre gauge.	36 feet diameter, of the central balance description. Capable of turning an engine and tender weighing 38 tons.	215	0	0	Each.	
F779	Ditto ...	36 feet diameter ditto ditto ditto ditto ...	215	0	0	,,	
417	Ditto ...	Ditto ditto ditto ditto ditto ...	190	0	0	,,	
F763	Weighbridges, metre gauge.	Adjusted to weigh by English standards 10 tons and Indian standards 273 maunds. Platforms are 14 feet 6 inches long and 4 feet 6 inches wide.	81	0	0	Each.	
120	Ditto ...	To weigh up to 680½ maunds. Platforms are 25 feet long × 4 feet 6 inches wide ...	150	0	0	,,	
F75	Spare parts of— ...	Knife edges for the weighbridges supplied on contract F 660 of 7-10-85 ...	9	17	6	Set.	

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CLASS OF STORES F.—STATION MATERIALS AND FENCING—*concld.*

Contracted for in 1887.

Contract Number.	Articles.	Description.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
220	Weighing Machines, Edwardit's.	Edwardit's patent portable weighing machines for flat footed rails ... Each machine is fitted with 2 levers and 4 scales, one lever weighing from 750 to 1,750 Kilos and the other from 1,700 to 8,000 Kilos with the English equivalent weights cwt. qr.	150	0	0	Set of 6.	This should have been entered in rate list class C according to classification of State Railway Stores, but as the contract has been let for F class Stores, it has been entered accordingly.
F743	Weighing machines, platform.	57" × 33" on wheels to weigh up to one ton ...	15	10	0	Each	Net weight of each c. qr. lbs. ... 6 2 0
"		Ditto ditto, but lever to be graduated to weigh cubic feet and inches at 45lb per cubic foot and not to have loose weights, the plate to be perfectly smooth and to be on wheels.	15	10	0	"	
416		36" × 30" to weigh up to 14 maunds	9	3	6	"	Net weight of each c. qr. lbs. ... 4 2 0
"		24" × 24" ditto 7 ditto	8	0	0	"	Ditto ... 2 3 14
434		24" × 24" with steel yards graduated for metric, English and Burmese weights, 250 kilos or 5 cwt. or 154 viss (1 viss = 3·65 lbs).	8	10	0	"	Ditto ... 2 3 14
434		30" × 30" with steel yards graduated for metric, English and Burmese weights, 500 Kilos or 10 cwt. or 308 viss.	10	10	0	"	Net weight of each 4½ cwt.
		Tracings ...	0	10	0	Set.	
		Photographs ...	0	1	0	Copy.	

L. CONWAY-GORDON,
Director General of Railways.

Simla, the ——— *July 1889.*

[*General Distribution.*]

Circular No. 9.

FROM

THE DIRECTOR GENERAL OF RAILWAYS.

TO

THE DIRECTOR, NORTH-WESTERN RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND RAILWAY.
THE ENGINEER-IN-CHIEF, SIND-PISHIN STATE RAILWAY.
THE AGENT AND CHIEF ENGINEER, DELHI-KALKA RAILWAY.
THE PORT STORE-KEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Simla, the 1st July 1889.

SIR,

I have the honour to forward herewith, for information and guidance, a printed statement showing the actual English rates for F Class Stores "Station Materials and Fencing," contracted for by the Stores Department of the India Office during 1887.

I have the honour to be,

SIR,

Your most obedient servant,

L. CONWAY-GORDON,
Director General of Railways.

Documents accompanying.

Rate List, Class F—"Station Materials and Fencing,"—for 1887.

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 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 marginally noted for information.

L. CONWAY-GORDON,
Director General of Railways.

2120
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P.W.C. ch 7208/89

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

P.W. Cir. 7208

TO

Circular No. 9.

Dated Simla, the 1st July 1889.

Received.

Rate List, Class F—"Station Materials and Fencing"—for 1887.

G. C. Press, Simla.—No. 321 P. W. D.—4-7-89.—1,100.