

Public Works (1899) Department.

G.O., No.

2333 W

DATED ¹⁴ September 1899.

[Despatch Abstract.]

Rate list, Class F. "Station materials and
fencing" for 1898. Circular from the
Dir. of Railway Constⁿ forwarding copies
of the — Commd to Officer of the
P.W.D.

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

The chief engr. for Engraving at ^{Howard} ^{Rate list}
All Supts. Engrs. 5-5-13-5-5-5 ^{Class D. "Station}
The Consy. Architect to Govt. at ^{Materials and Fencing"}
" Suptt. of works, L.H. Div. ^{for 1898.}
" Examr. P.W. Accts. ^{at rates}

Enclosure to Director of Railway Construction's Circular No. 11 of 1899.

Statement showing the average rates per ton for entire sea freight on Class F. Stores, Station Materials and Fencing, sent out from England to the several Ports in India during 1898.

Articles.	Karachee.	Bombay.	Cocanada or Vizagapatam.	Calcutta.	REMARKS.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
Clocks ... ..	.....	.....	.....	.....	
Cranes, water-pillar, long neck, complete	1 2 6	.....	.....	1 5 0	
Fencing, wire; materials for—	1 4 0	.....	.....	1 1 0	
Piping, iron, cast and wrought with connections	1 3 9	1 5 0	.....	1 4 0	
Pumps steam	1 5 0	.....	.....	1 0 0	
Roofing	1 0 0	.....	.....	1 5 0	
Safes	.....	.....	1 15 0	1 2 6	
Signals	.....	1 0 0	1 9 5	1 0 0	
Tanks	.....	.....	.....	1 5 0	
Turntables, engine	.....	.....	.....	1 2 6	
Weigh bridges	.....	.....	.....	1 5 0	
Weighing machines	0 14 0	.....	1 10 0	1 2 6	

Where rates for sea-freight are not shown it should be understood that the articles specified were not imported during the year.

CLASS OF STORES F.—STATION MATERIALS AND FENCING.

Contracted for in 1898.

Contract number and date.	Articles.	Details.	RATES—FEES ON BOARD.			For what railway.	REMARKS.	
			Amount.		Unit.			
			£	s.				d.
$\frac{88}{232}$	Clocks ...	Station, with long cases, 24 hour dials to be altered to 12 hours.	93	0	0	Each	North Western.	Includes £ 15-0 cost of alteration.
$\frac{89}{61}$		Do. do. do. do.	3	7	6	"		
$\frac{83}{116}$	Cranes water	8" pillar, complete, but without leather hose pipes ...	53	0	0	Each	North Western.	
$\frac{84}{352}$		Do. do. do. do.	60	0	0	"	Hurdwar-Dehra.	
$\frac{85}{131}$		Do. do. do. do.	57	0	0	"	Shadipalli-Balotra.	
$\frac{83}{242}$		8" with crane and tank pipes complete, but without leather hose pipes.	64	0	0	"	Mymensingh-Jampur Extension.	
$\frac{87}{160}$		8" pillar, with piping and connections complete ...	44	19	0	"	East Coast.	
	8" pillar, with crane and tank pipes complete, but without leather hose pipes.	55	12	9	"	Ghaziabad-Moradabad.		

CLASS OF STORES F.—STATION MATERIALS AND FENCING—cont'd.

Contracted for in 1898.

Contract number and date.	Articles.	Details.	Rate—Free of board.			For what railway.	Remarks.
			Amount		Unit.		
			£	s.			
78 376	Engines, { pumping.	Spare parts of water motor— Rings, gutta percha, 8½" outside diameter, ½" thick, 1" wide.	0	3	72	Each	North Western.
63 44		Bolts, eye, straining, galvanized, with nuts and washers ...	20	0	0	Ton	Mymensingh-Jamalpur Extension.
89 342		Do. do. do. do.	20	0	0	"	Oudh and Rohilkhand.
83 309		Bolts, eye, straining, galvanized, with nuts and washers, ½" diameter and 19" long over all.	20	17	6	"	
89 10	Fencing wire	Posts, wrought iron, intermediate ...	6	12	6	"	Mymensingh-Jamalpur Extension.
		Do. do. do. do.	6	17	6	"	Eastern Bengal.
		Pots, wrought iron, stiffening ...	7	15	0	"	Mymensingh-Jamalpur Extension.
		Do. do. do. do.	7	15	0	"	Oudh and Rohilkhand.
		Do. do. do. do.	8	2	6	"	Eastern Bengal.
		Posts, cast iron, straining ...	4	12	6	"	Mymensingh-Jamalpur Extension.

21-6-98	Wedges, wrought iron ...	...	...	...	14	10	0	Ton.	Mymensing-Jamalpur Extension.
	Do. do. ...	...	...	...	14	10	0	"	Oudh and Rohilkhand.
12-1-98	Do. do. ...	...	...	...	14	15	0	"	Eastern Bengal.
6-6-98	Wire, galvanized, No. 4 (7 strand), No. 14 S. W. G., in coils of 450 yards.	...	...	...	10	10	0	"	Mymensing-Jamalpur Extension.
6-6-98.	Pencing wire —contd.	Wire, galvanized, No. 4 (7 strand), No. 14 S. W. G., in coils of 450 yards.	...	...	10	10	0	"	Oudh and Rohilkhand.
	Do. do. do. ...	do. do. ...	...	...	10	10	0	"	Eastern Bengal.
27-8-98.	Do. do. do. ...	do. do. ...	...	...	10	5	0	"	North Western.
15-9-98.	Do. do. do. ...	do. do. ...	...	...	10	5	0	"	Mari-Attock.
15-8-98.	Pipes, cast iron }	8" bore, socket and spigot in 9 feet lengths	...	...	5	2	6	Ton.	Shadipalli-Balotra.

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

Contracted for in 1898.

Contract number and date.	Articles.	Details.	Rate—Free of board.		For what railway.	Remarks.
			Amount.	Unit.		
86 150 13-9-98.	Spare Parts of—	Bolts and nuts $\frac{3}{4}$ " diameter —				
		2 $\frac{1}{2}$ " under head	...	...	...	
		3 $\frac{1}{2}$ " " "	...	...	...	
		Derivative Washers —				
		for 3" valves	...	...	...	
86 236 19-9-98.	Pipes, cast iron.—	" 2" "	...	...	...	
		8" sluice valves for 8" C. I. piping for water columns, with flanges of standard type, with wrought iron screws and gun metal nuts.				
		Flanged sluice valves —				
		3"	...	...	...	
		3 $\frac{1}{2}$ "	...	...	...	
86 160 13-9-98.						

85 394	27.8.98.	Galvanized, in 12 feet lengths, with screwed ends and a socket to each length—				
		1" bore	...	...	...	Foot
		1" "	...	...	...	"
		1½" " For water	...	...	...	"
		2" "	...	...	...	"
		2½" "	...	...	...	"
		Water, Black, with screwed ends, and a socket to each length—				
		3" bore	...	...	...	"
		2" "	...	...	...	"
		Water, Black, with screwed ends, and a socket to each length—				
		1" bore	...	...	...	"
		1½" "	...	...	...	"
		2" "	...	...	...	"
		2½" "	...	...	...	"
		1" "	In lengths of 11, 12, 13, and 14 feet			"
		1½" "	...	...	...	"
		1¾" "	...	...	...	"
		2" "	...	...	...	"
		2½" "	...	...	...	"
		Pipes, wrought iron.				
86 105	8.9.98.					
		Hardwar-Dehra.				
		Eastern Bengal.				
84 354	21.7.98.					

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*cont'd.*

Contracted for in 1898.

Contract number and date.	Articles.	Details.	Rates—Fixed or Board.			For what railway.	Remarks.
			Amount.	Unit.			
		For gas, with screwed ends, in lengths of 10 feet with a socket to each length.—	£	s.	d.		
		½" bore	0	0	94	Foot.	
		¾" "	0	0	125	"	
		1" bore	0	0	14	"	
		1½" "	0	0	31	"	{ Eastern Bengal.
		2" "	0	0	425	"	
		2½" "	0	0	625	"	
		3" "	0	0	106	"	
83 305	20-3-98. Pipes, wrought iron.						

Connections for—		North-Western.		Hardwar Dehra.		Eastern Bengal.	
27-8-98	Bends, quarter, galvanized, for water—						
	3" pipes	...	...	0	0	268	Each.
	4" "	...	...	0	0	356	"
	1" "	...	...	0	0	487	"
	1½" "	...	...	0	0	682	"
21-7-98	1½" "	...	...	0	0	876	"
	2" "	...	...	0	1	456	"
	Bends, with screwed ends, and a socket to each end—						
	3" bore { 1 circle ... 1 1/2 "	...	...	0	3	24	"
	2" " { 1 circle ... 1 1/2 "	...	...	0	0	102	"
8-9-98	Bends, quarter, black, for gas; with socket to each—						
	3" "	...	...	0	0	172	"
	4" "	...	...	0	0	236	"
	1½" "	...	...	0	0	450	"
	1½" "	...	...	0	0	575	"

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

Contracted for in 1898.

Contract number and date.	Articles.	Details.	RATE—PER ON BOARD.				For what railway.	REMARKS.
			Amount.			Unit.		
			£	s.	d.			
84 354 21-7-98		Bends, quarter, black, for gas; with socket to each—	0	0	11-00	Each	Eastern Bengal.	
		2"	0	2	2	"		
		2½"	0	3	5	"		
85 391 27-8-98	Pipes, wrought iron (contd.)	Elbows, round, for galvanized piping—	0	0	2-03	Each	North Western.	
		¾" pipe	0	0	2-7	"		
		1" "	0	0	3-6	"		
88 805 20-6-98		Elbows, round, for 1" pipes—for gas.	0	1	1-08	"	Warora Colliery.	
		1" "	0	0	4-8	"		
		1½" "	0	0	9	"		

86 105 8-9-98		Flanges, screwed, to fit pipes of bore—	0	1	8-4	"	Hardwar Dehra.	
		3" For water.	0	0	6	"		
		2" "	0	0	8-6	"		
83 305 20-6-98		Sockets for—	0	0	9-6	"	Warora Colliery.	
		1" pipes—for gas	0	0	1-3	"		
		Sockets for wrought iron galvanized pipes for—	0	0	1-8	"		
85 394 27-8-98	Pipes wrought iron (contd.)	1" "	0	0	2-1	"	North Western.	
		1½" "	0	0	3-6	"		
		2" "	0	0	3-6	"		
83 305 20-6-98		Tees, galvanized, for—	0	0	3-6	"	Warora Colliery.	
		¾" pipes	0	0	4-5	"		
		1" "	0	0	9	"		
83 145 15-6-98		Tees, for—	2	18	6	E ch.	Mymensing-Jamalpur Extension.	
		1" gas pipes	2	12	6	Set.		
		Indenting, with type complete	2	12	6	Set.		
86 327 30-9-98	Presses, tick-et dating.	Indenting, with type boxes, containing the following type—					East Coast.	
		Types for each month January to December—						
		Figures 1, 2 and 0-4 types of each—						

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

Contracted for in 1898.

Contract number and date.	Articles.	Details.	RATE—FEES ON BOARD.			For what railway.	REMARKS.
			Amount.		Unit.		
4-7-98 84 99	Presses, ticket, dating— (<i>concl'd.</i>).	Lecoq's patent, each with type and type box, etc., complete, to cut dates	£. 4	s. 18	0	Eastern Bengal.	
26-8-98 85 338		Spare type for above, in box	1	8	0		
15-6-98 83 148		To cut date	2	1	0		
11-2-98 79 122	Pumps.	Hand power, double cylinder, complete, capable of delivering 1000 gallons of water per hour	34	12	6	Mymensing-Jamalpur Extension.	
2-9-98 86 21		Spare parts of—steam, special, Tangyes patent 6"—Distance pieces, rubber for valves	0	4	3-25	North Western	
		Vulcanite valve seats	0	2	11		
19-7-98 84 307	Roofing, complete.	Tank, rotatory, lavatory, carriage, with suction and delivery hose	23	13	0	Eastern Bengal.	
19-7-98 84 308		Steel work for one engine-shed roof 85 feet long by one span of 45 feet in the clear, comprising T bars, gusset plates, bearing plates, angle bars and rivet heads and spare rivets. Wind tie rods and all bolts, nuts and washers, etc. For details, see Appendix A.	185	15	3	Hardwar-Dehra.	T. C. qr. lb. Weight = 13 5 1 14 at £14 per ton.
		Iron, galvanized for one engine, shed, 85 feet long by one span of 45 feet in the clear, comprising corrugated sheets, ridge plates, wind ties, etc., etc. For details see Appendix B.	130	14	9	Hardwar-Dehra.	T. C. qr. lbs. Weight = 9 19 0 22 @ £13-2-6 per ton average
		Total roof complete	316	10	0		

19-7-98 84 308	Spare parts of— Ridge plates Wind Ties Clips Rivets and Burrs Bolts Washers Scolloped ridging Gutters Galvanised, corrugated sheets do. rivets Iron sheet, plain, galvanized 6' x 3' x 23 S. W. G. (0-96 lbs. per square foot after being cleaned and pickled ready for galvanizing). Gutters, iron, galvanized, half round, with slip joints, 8" wide 5" deep 18 B. W. G., 6 feet long to weigh 2 lbs. per square foot in the flat after being cleaned and pickled. Ridge capping iron, galvanized, plain 18" lap on either side 18 B. W. G., 6 feet long to weigh 2 lbs. per square foot in the flat after being cleaned and pickled.	18	10	0	Ton.	Hardwar-Dehra.
		12	5	0	"	
		24	15	0	"	
		29	15	0	"	
		44	15	0	"	
		29	15	0	"	
		0	2	2 1/2	Length.	
8-9-98 86 44		11	2	6	Ton.	
25-10-98 87 265		30	0	0	"	
		12	0	0	"	
10-10-98 87 69	Roofing.	0	0	5 1/2	Foot.	Oudh and Rohilkhand.
		0	0	6 1/2	"	

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

Contracted for in 1898.

	83 430	27-6-98		14	11	0	Set.	Eastern Bengal.
Distant:— Sets of fittings, complete, excepting the iron posts and lamps, but including pull over levers, strand wire, pulleys, stakes, crossing wheels, piping for changing direction of connections, etc., to be provided and spectacles, and fittings to be suitable for iron posts for:—			...	...	...	...	...	...
Sets of fittings, complete, except the wooden posts, but including lamps, pull over levers, strand wire, pulleys, stakes, crossing wheels, piping for changing direction of connections, etc., and double spectacles for:—	79 101	9-2-98		15	3	0	"	Shadipalli-Balotra.
Sets of fittings, complete, except the wooden posts but including lamps, pull over levers, strand wire, pulleys, stakes, crossing wheels, piping for changing direction of connections, etc., for:—	89 296	27-12-98		15	8	6	"	Bikaner-Bhatinda.
Semaphore, glasses, spectacles for—				0	1	2	Each.	
blue green } No. 1			...	0	0	9	"	
red }			...	0	0	4	"	
blue green } No. 2		17-10-98	...	0	0	3	"	North-Western.
red }			...	0	0	7	"	
blue green } No. 7			...	0	0	5	"	
red }			...	0	0	2	"	
Glasses, for spectacles—			...	0	1	2	"	East Coast.
red ...		18-1-98	...	0	1	11	"	
green ...			...	19	0	0	Ton.	East Coast.
Wire strand, galvanized for distant signals, in coils of 700 feet	86 326	30-9-98	...	16	10	0	"	Mymensing-Jamalpur Extension.
Wire steel, solid No. 10 B. W. G., galvanized, for distant signals, in coils of 450 yards	83 147	15-3-98	...	16	10	0	"	Eastern Bengal.
Wire steel, solid, No. 13 B. W. G., galvanized for distant signals, in coils of 450 yards	83 429	27-6-98	...	16	10	0	"	

CLASS OF STORES F.--STATION MATERIALS AND FENCING.

Contracted for in 1898.

Contract number and date.	Articles.	Details.	RATE--FEES ON BOARD.				For what railway.	REMARKS.
			Amoun.	Unit.	£	s.		
86 329	20-9-98	Wrought iron, 8' x 8' x 4'; with one cast iron connecting pipe and the necessary bolts and nuts ...	20	Each.	10	0	Chazisabad-Moradabad.	
83 150	15-6-98	Sets of ironwork for :--with two 8" bore cast iron flanged connection pipes 6' long with bolts, nuts and washers ..	18	"	10	0	Mymensingh-Jamalpur Extension.	
84 357	21-7-98	Steel, 16' x 12' x 4' ...	41	"	5	0	Hardwar-Dehra.	
86 275	10-9-98	5' 6" gauge of the central balance description, 50 feet diameter suitable for turning and engine and tender weighing together 80 tons.	425	Each	0	0	Mari-Attock.	
84 275	16-7-98	Ditto. ditto. ditto. ditto.	425	"	0	0	Hardwar-Dehra.	
85 339	26-8-98	Ditto. ditto. ditto. ditto.	425	"	0	0	North-Western.	
88 432	27-1-98	With platform, 18 feet long, for vehicles with a wheel base of 16 feet, to weigh up to 30 tons and 817 maunds, with steel yards graduated for English and Indian weights. Rails of platform to be of steel, vignoles section 75 lbs. per yard 6' 6" gauge.	125	Each.	0	0	Outh and Rohilkhand and North-Western.	

85 337	26-8-98	Platform 18 feet long, to weigh up to 30 tons, with steel yards graduated for English and Indian weights. Rails of platform to be Indian State railway new standard 75 lbs. flat footed steel rails.	130	"	0	0	North-Western.	
79 280	22-2-98	Platform 6' x 4' with steel yard graduated for English and Indian weights, to weigh up to 25 maunds.	52	Each.	10	0	North-Western.	
83 08	4-6-98	Platform 30" x 30" for parcels--to weigh up to 10 cwt. and 14 maunds, with steel yard graduated for English and Indian weights.	10	"	0	0	Mymensingh-Jamalpur Extension.	
84 121	5-7-98	Platform 30" x 30" to weigh up to 10 cwt. and 14 maunds, with steel yard graduated for English and Indian weights.	9	"	10	0	Hardwar-Dehra.	
88 440	22-11-98.	Platform 33" x 29" to weigh up to 1 ton and 28 maunds with steel yard graduated for English and Indian weights.	11	"	15	0	North-Western.	
88 440	22-11-98.	Beam scale, without weights, to weigh up to 15 cwt.	15	"	0	0	North-Western.	
78 225	18-1-98.	Spare parts of :-- Stool castings for Platform weighing machine 30" x 30" for parcels :--	1	"	0	0	Bezwada-Madras.	

APPENDIX A.

SCHEDULE.

Steelwork Quantities in one complete Engine-shed Roof, 85 feet × 45 feet clear span, vide contract, No. $\frac{84}{307}$, dated 19th July 1898, for the Hurdwar-Dehra Railway.

			Tons. cwt. qr. lbs.	Tons. cwt. qr. lbs.
T bars	...	...	4 14 2 0	
Flat bars	...	...	2 2 0 0	
Gusset plates	...	...	1 10 1 0	
Bearing plates	...	...	0 7 1 11	
Angle bars	...	...	4 2 3 0	
				= 12 6 3 14

Rivet heads and spare rivets, assumed @				
3 per cent. on above	...	...		0 7 1 21
Wind tie rods	...	...		0 4 0 7
No. 16 bolts for wind tie rods, $4\frac{1}{2}$ " long	...	...	0 0 0 21	
" 5 " " " 3" "	...	...	0 0 0 7	
" 42 holding down bolts	...	...	0 2 1 21	
" 21 washer plates for holding down bolts	...	...	0 2 3 7	
Service bolts, nuts and washers	...	...	0 1 2 0	= 0 7 0 0

13 5 1 14 @ £14 per ton = £185-15-3.

APPENDIX B.

SCHEDULE.

Galvanized Ironwork Quantities in Engine-shed Roof, 85 feet × 45 feet clear span, vide contract No. $\frac{84}{308}$, dated 19th July 1898, for the Hurdwar-Dehra Railway.

			Tons. cwt. qr. lbs.
320 Corrugated sheets	...	...	7 8 2 8
40 " " (curved)	...	...	0 19 1 14
2 Ridge plates for ends	...	...	0 3 0 0
60 Wind tie flat bars	...	...	0 14 0 0
1,540 Clips	...	...	0 10 1 7
(a) 10,800 Rivets (a) and burrs (b)	...	...	0 3 3 21
(b) 16,000			

9 19 0 22 @ £13-2-6 per ton = £130-11-9

Total steel galvanized ironwork in engine shed complete £316 10 0

[For General distribution.]

Circular No. 11.

FROM

THE DIRECTOR OF RAILWAY CONSTRUCTION,

TO

THE MANAGER, NORTH WESTERN RAILWAY.

THE MANAGER, OUDH AND ROHILKHAND RAILWAY.

THE MANAGER, EASTERN BENGAL STATE RAILWAY.

THE MANAGER, EAST COAST RAILWAY.

THE ENGINEER-IN-CHIEF, INDUS BRIDGE WORKS AND BRITISH SECTION,
SHADIPALLI-BALOTRA RAILWAY.

THE ENGINEER-IN-CHIEF, GODAVERY BRIDGE.

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

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

THE PORT SOTREKEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Rate List, Class F. "Station Materials and Fencing" for 1898.

Simla, the 22nd July 1899.

SIR,

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

2. A statement showing the average rates per ton for entire sea-freight on station materials, etc., sent out from England to the several ports in India during 1897, is prefixed to the Rate List for information.

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

I have the honour to be,

SIR,

Your most obedient servant,

C. W. HODSON,
Director.

Documents accompanying.

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

2. Rate List, Class F.—"Station Materials and Fencing" for 1898.

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

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

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

G. Hubbock Lt. Col.

for Director.

J. B.

To

THE

*Secretary to the Govt. of Madras,
Public Works Deptt.*

(Spare copies will follow)