Enclosure to Director General of Railways' Circular No. 13 of 1891.

RATE LIST.

CLASS F.

STATION MATERIALS AND FENCING

FOR 1890.

G. C. Press, Simla.—No. 1655 P. W. D.—27-7-91.—1,100.

RATE LIST.

CLASS F.

STATION MATERIALS AND FENCING

FOR 1890.

Enclosure to Director General of Railways' Circular No. 13 of 1891.

Statement showing the latest average rates per ton for entire sea-freight on F. Class stores,—Station materials and Fencing,—sent out from England to the several ports in India.

—	Port of Bombay.	Port of Calcutta.	Port of Karachi.	Port of Madras.	Port of Rangoon.	
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
Cranes, water, pillar, long neck, complete	...*	0 16 0	0 11 9	...*	1 15 0	* None shipped to these ports in 1890 and 1891.
Fencing wire, materials for—	...	0 12 3	0 12 0	...	1 12 0	
Piping, iron, cast, and connections for—	...	...	1 0 0	...	1 7 6	
Ditto wrought ditto	...	0 12 0	...	...	1 3 6	
Pumps	...	0 17 6	...	...	1 5 0	
Roofing, iron	...	...	0 17 0	...	1 0 0	
Signals	...	0 12 6	0 14 0	...	1 2 6	
Turntables, engine...	...	...	0 12 0	...	1 5 0	
Weigh bridges	...	1 7 6	...	...	1 10 0	
Weighing machines	0 14 9	0 10 6	0 13 11	...	1 10 0	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3406	10-4-90	Clocks.	Station, in teak cases, 4′ long, with 24 hourdial, 14″ diameter	8	1	0	Each.	
3935	13-10-90		,, ,, ,, ,, ,, ,, ...	8	9	0	,,	
3995	21-10-90		,, ,, ,, ,, ,, ,, ...	8	11	0	,,	
4038	28-10-90		Office, not striking, with 12″ dials, in ordinary round teak case... ...	3	3	6	,,	
3293	27-2-90	Cranes, Water, or water Columns.	Pillar, long neck, with pipes, &c, complete	30	12	0	Each.	Approximate weight 20 cwt. each.
3812	9-9-90		,, ,, ,, ,, ...	38	5	0	,,	With valves to resist frost.
3970	17-10-90		,, ,, ,, ,, ...	30	15	0	,,	
3853	23-9-90	Fencing, Wire; Materials for—	Bases, cast iron	4	7	6	Ton.	
4000	23-10-90		,, ,, ...	4	5	0	,,	
3189	24-1-90		Bolts, eye, straining, galvanized, with nuts and washers	20	15	0	,,	
4002	23-10-90		,, ,, ,, ,, ,, 1′ 7½″ long ...	20	15	0	,,	Weight 3·133 lbs. each.
4018	23-10 90		,, ,, ,, ,, ,, ...	22	0	0	,,	
3848	19-9-90		,, ,, ,, ,, ,, ...	22	10	0	,,	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
		Fencing, Wire; Materials for—*contd.*	Posts, iron, intermediate	8	15	0	Ton.	
3852	23-9-90		„ „	7	15	0	„	
4009	23-10-90		„ stiffening	10	0	0	„	
3852	23-9-90		„ „	9	0	0	„	
4009	23-10-90		„ straining	4	17	6	„	
3853	23-9-90		„ „	4	15	0	„	
4000	23-10-90		Staples, galvanized, for 4 barbed wire fencing	13	0	0	„	
3614	26-6-90		Wedges, wrought iron	16	0	0	„	
3424	1-5-90		„ „	16	0	0	„	
3852	23-9-90		„ „	15	10	0	„	
4009	23-10-90		Wire, iron, galvanized, No. 6 S. W. G., solid	18	0	0	„	The wire in the black is to weigh 502 lbs. per mile.
3211	30-1-90		„ barb, „ „ 12 „ in reels of 533 yards, 4 barbed ...	16	11	0	„	1 Reel=1 cwt. or 533 yards=112 lbs.
3614	26-6-90		„ strand, galvanized, in coils of 450 yards each, 14 S. W. G. ...	15	0	0	„	
3855	26-9-90		„ „ „ „ „ „	15	10	0	„	164 lbs. per coil.
3998	21-10-90		„ „ „ „ „ „	14	7	6	„	
4001	23-10-90		„ „ „ „ „ „	10	14	0	Each.	
3823	11-9-90	Fountains ...	Drinking, with 4 cocks to each					

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3713	16-7-90	Hydrants.	With stand pipes, twin, 2½″ bore	8	7	6	Each.	
3811	9-9-90		With a small tap on each, for drinking water	8	4	0	„	Tracings £1.
4201	31-12-90		„ „ „ with two hose connections	8	13	6	„	Photos. £1.
3934	11-10-90	Pipes, Iron, Cast.	Double flanged, 9 feet long, 9″ bore, $\frac{9}{16}$″ thick	5	7	6	Ton.	Weight of 1 pipe = 528 lbs.
„	„		„ 9 „ 6″ „ ¾″ „	5	7	6	„	„ „ = 319 „
3681	7-7-90		„ 9 „ 6″ „ $\frac{7}{16}$″ „	6	9	6	„	„ „ = 259 „
3581	16-6-90		„ 9 „ 4″ „ ¾″ „	7	12	6	„	„ „ = 160 „
3681	7-6-90		„ 6 „ 6″ „ $\frac{7}{16}$″ „	6	9	6	„	„ „ = 186 „
3581	16-6-90		Spigot and socket, 9 „ 4″ „ ¾″ „	5	12	6	„	„ „ = 160 „
3581	16-6-90	Pipes, Iron, Cast; Connections for—	Bends, 90° for 4″ bore spigot and socket pipes	10	5	0	Ton.	One bend = 84 lbs.
3934	11-10-90		„ 90° „ 6″ „ „	8	17	6	„	„ „ = 152 „
			„ 45° „ 6″ „ „					„ „ = 144 „
			„ 45° „ 9″ „ „					„ „ = 252 „
			Bolts and nuts, ⅞″ for sluice valves	28	0	0	„	One bolt = 1·375 lbs.
			Breeches, 45°	8	17	6	„	One breech = 322 lbs.
			Collars, 9″ bore	8	17	6	„	One collar = 112 lbs.
„	„		„ 6″ „	8	17	6	„	„ „ = 56 „

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3581	16-6-90	Pipes, Iron, Cast; Connections for—*contd.*	Flanged spigot, 4″ bore, for spigot and socket pipes	10	5	0	Ton.	One spigot = 238 lbs.
3934	11-10-90		„ „ 6″ „	8	17	6	„	„ „ = 70 „
„	„		„ sockets 6″ „	8	17	6	„	„ „ = 77 „
3683	7-7-90		Bolts and nuts, black, for flanges, 3½″ underhead × ⅝″ diameter ...	17	0	0	„	
3581	16-6-90		Flanged sockets, 4″ bore for spigot and socket pipes	10	5	0	„	One spigot = 12 lbs.
3934	11-10-90		Tees, 6″ bore	8	17	6	„	One Tee pipe = 238 lbs.
3581	16-6-90		„ for 4″ „ spigot and socket pipes	10	5	0	„	„ „ = 119 „
3934	11-10-90		Valves, sluice, 6″ bore	3	10	0	Each.	
3581	16-6-90		„ „ 4″ „	1	15	0	„	
„	„		Keys for valve 4″ T handled, 3 feet long	0	5	0	„	
3934	11-10-90		„ „ 6″ „ „	0	15	0	„	
3503	24-5-90	Pipes, Iron, Wrought.	Gas, butt welded, with screwed ends and couplings— 1″ internal diameter; 1½″ „ „; 1¾″ „ „; 2″ „ „ — In lengths of 10 feet	0	0	5½	Foot.	
3218	1-2-90	Pipes, Iron, Wrought—*contd.*	Lap welded, with screwed ends and couplings— Galvanized 2″ internal diameter; 2¼″ „ „ — In lengths of 15 feet	0	0	10½	Foot.	
3682	7-7-90			0	1	1	„	
3578	14-6-90		With sockets and screwed ends— 1½″ „ „; 3″ „ „ — In straight lengths of 12 feet ...	0	0	4	„	
„	„			0	1	0½	„	
3722	18-7-90		1″ diameter; 2″ „; 3″ „; 4″ „ — In lengths of 10 feet	0	0	2½	„	
				0	0	6	„	For hydraulic pumps.
				0	1	3¼	„	
				0	2	0	„	
3578	14-6-90	Pipes, Iron, Wrought; Connections for—	Bends, 90°, for 1½″ pipes, with sockets	0	0	6½	Each.	
„	„		„ 90°, „ 3″ „ „	0	3	9½	„	
3218	1-2-90		„ 90°, „ 2″ „ „	0	2	2	„	
3682	7-7-90		„ 90°, „ 2¼″ „ galvanized	0	2	7½	„	
3683	7-7-90		Galvanized bolts and nuts for flanges 1¾″ underhead × ½″ diameter ...	0	0	7	lb.	
3583	16-6-90		Cocks, ball, screwed, for 3″ pipes, with copper ball complete ...	3	19	0	Each.	
3218	1-2-90		Couplings or joint pieces 2″, in lengths of 12″, with socket and back nut, one side of each faced.	0	2	6	„	
„	„		Elbows, 2″ bore	0	1	9	„	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3682	7-7-90	Pipes, Iron, Wrought; Connections for—*concld.*	Galvanized Flanges, 6½″ diameter, each drilled for 4 bolts ½″ diameter, diameter of bolt circle 5″.	0	1	7	Each.	
3583	16-6-90		Cocks, stop round way iron with brass plugs, screwed, for 1½″ pipes ...	0	11	3	,,	
,,	,,		,, ,, ,, ,, 3″ ,, ...	2	7	6	,,	
3218	1-2-90		Tee pieces, 2″ bore	0	2	0	,,	
3578	14-6-90		,, 1½″ out of 3″	0	3	6	,,	
3583	16-6-90		T keys, for 1½″ cocks	0	3	6	,,	
			,, ,, 3″ ,, ...	0	4	9	,,	
3757	6-8-90	Presses, Dating.	Tape, inking, for—to be inked, and in rolls of 60 yards each ...	0	6	0	¾ yds.	
3199	25-1-90		Ticket (press only)	1	4	0	Each.	
3213	30-1-90		,, ,, and inking	1	10	0	,,	
3793	28-8-90		,, with type complete	2	5	0	,,	
3324	7-3-90		,, to print date, with a set of type complete	2	5	0	,,	
3653	3-7-90		,, ,, ,, ,, ,, ...	2	5	6	,,	
3862	2-9-90		,, ,, ,, ,, ,, ...	2	0	0	,,	
3199	25-1-90		Type, spare, in boxes, for above	0	13	0	Box.	
3213	30-1-90		,, ,, ,, ,, ...	0	15	0	,,	
3653	3-7-90		,, ,, ,, ,, ...	0	9	3	,,	
3862	2-9-90		,, ,, ,, ,, ...	0	12	0	,,	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3794	28-8-90	Pump ...	Pulsometer, No. 4, with foot and back pressure valves	31	10	0	Each.	
4125	7-11-90	Pumps, deep well ..	Treble barrels, single acting, each 7″ diameter and 18″ stroke, with guide rods, girders, top and bottom frames, main shaft (from well to tank) with 5 feet diameter gearing wheels, couplings and plummer blocks, supply service and overflow pipes, bends, and all other fittings complete.	315	0	0	Each.	Approximate weight 14½ tons.
3969	17-10-90	Pumps, Steam.	6 H. P. engines and boilers, with suitable pumps for supplying water for use of Locomotives from wells 100 feet deep, with piping.	320	0	0	Each.	Photos. £7-10-0.
			Each pump is to have 27 feet of suction and 99 feet of plelivery pipes.					
			Dimensions of Engines, Boilers and Pumps.					
			Diameter of steam cylinder ... 9 inches.					The engines are supplied with duplicate parts.
			Length of stroke ... 10 inches.					
			Diameter of boiler ... 3 feet 2 inches.					
			Height of boiler ... 7 feet 0 inches.					
			Number of conical water tubes, in ditto—two.					
			Diameter of pump barrel, 6 inches.					
			Stroke of pumps (double acting) 12 inches, changeable to 8 inches.					
			Number of pumps (double acting)—two.					

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3564	10-6-90	Pumps, Steam —*concld.*	Special, with vertical boiler, mounted on cast iron bed plate, with duplicate parts, &c. The water is to be forced 100 feet high.	174	15	0	Each.	3 sets tracings and 6 photos. £ 1-15-0.
3850	23-9-90		6 H. P. with boiler complete, for station wells	282	10	0	,,	
4080	4-11-90	Roofing, Iron, complete.	Ungalvanized wrought iron work, for roofing of Engine Shed in two bays, each 120 feet long by 35 feet wide, with all bolts, nuts, washers and rivets, &c., complete.	345	0	0	Shed.	T. c. qr. lbs. Estimated weight 26 11 0 14
4097	6-11-90		Galvanized wrought iron work for ditto	340	9	6	,,	,, ,, 20 19 2 19
			Cost of 1 roof of Engine Shed complete ...	685	9	6	Total.	Total weight of roof ... 47 10 3 5
			For detailed rates see below :—					
4080	4-11-90		For all wrought iron work except bolts and nuts	12	15	8	Ton.	
			,, ,, ,, ,, ,, in bolts and nuts	22	0	0	,,	
4097	6-11-90		,, galvanized wrought iron corrugated sheets, with rivets, burrs, and clips, &c.	16	10	0	,,	
3153	2-1-90	Roofing, Iron; Spare parts of—	Galvanized wrought iron plain sheets	16	15	0	Ton.	
3162	8-1-90		,, ,, ,, corrugated sheets	16	2	6	,,	
,,	,,		,, ,, ,, ,, ,, curved	17	2	6	,,	
3153	2-1-90		,, ,, ,, bolts and nuts with washers	0	3	0	Gross.	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3162	8-1-90	Roofing, Iron; Spare parts of—*concld.*	Galvanized wrought iron clips, for sheets	30	2	6	Ton.	
3153	2-1-90		,, ,, ,, gutters	20	2	6	,,	
			,, ,, ,, ridge plates	20	2	6	,,	
			,, ,, ,, rivets and burrs	27	2	6	,,	
			,, ,, ,, wind ties	17	2	6	,,	
3709	12-7-90	Safes, Cash.	Iron, 3′ 0″ × 2′ 6″ × 2′ 0″	16	4	0	Each.	See also under G.b. (8).
3996	21-10-90		,, 3′ 0″ × 2′ 6″ × 2′ 0″ outside diameter Fire proof	15	10	0	,,	By Hobb's Hart and Company, Powder proof lock with 4 Keys.
3947	15-10-90		,, 2′ 0″ × 1′ 6″ × 1′ 6″ ,, ,, ,, ...	9	2	0	,,	Do. do. do. do.
4175	1-11-90		,, 1′ 6″ × 1′ 0″ × 1′ 0″ ,, ...	11	18	6	,,	
		Signals, Semaphore.	Wrought iron, lattice, standards, with fittings, complete—					
3532	3-6-90		Distant, 28′ high from ground to centre of spectacle	21	15	0	Set.	
			,, 30′ ,, ,, ,, ...	22	5	0	,,	£ s. d.
			Main, 28′ ,, ,, ,, ...	21	15	0	,,	6 unmounted photos. and 3 sets hand-made tracings ... 12 0 0 Lot.
			,, 39′ ,, ,, ,, ...	26	0	0	,,	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
		Signals, Semaphore—*contd.*	Fittings for, in sets—					
3824	11-9-90		Distant, complete, with lamps but without posts	16	0	0	Set.	Lamps to burn petroleum as on North Western Railway. Extra for North Western Railway Lamps, £1-18-0.
3861	29-9-90		„ „ except lamps and posts	19	3	0	„	
„	„		Station, „ „ „ „	6	10	0	„	
3824	11-9-90		„ with lamps but without posts	8	0	0	„	
3628	30-6-90		Distant, complete, except posts	8	0	0	„	
„	„		Station, „ „ „	14	0	0	„	
3861	29-9-90	Signals, Semaphore; Spare parts of—	Lamps, semaphore, signal, distant	1	1	0	Each.	
3628	30-6-90		„ „ „ station	1	9	4	„	
„	„		„ „ „ „	1	10	0	„	
3861	29-9-90		„ burners „ distant	0	10	3	„	
„	„		„ glasses „ „	0	3	9	Set.	
„	„		„ „ „ station	0	5	3	„	
3758	6-8-90	Signal Apparatus...	Interlocking, with points, complete, with iron signal posts of the double lattice type and fittings, complete.	433	13	1	Set.	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3486	22-5-90	Shutters ...	Revolving, steel, for workshop doors, about 16′ 6″ × 13′ 0″ or thereabout, to fit archways.	35	12	6	Each.	
3810	9-9-90	Turntable Engine.	50 feet diameter, 5′ 6″ gauge	44	2	0	Each.	
4165	19-11-90		Centre pillar, for engine turntable metre gauge—36 feet diameter, as supplied on Contract 3122 of 11th February 1889.	12	2	11	„	
3730	19-7-90	Valves ...	India-rubber, red, for air pump, 6″ diameter × ⅝″ thick × ¼″ hole, for 30 H. P. surface condensing engine	0	2	9	Each.	
3759	6-8-90	Valves, Steam ...	Stop, flanged, 3″ diameter, bodies to be made of cast iron with gun metal valves and seats, and best mild steel spindle. To be tested by hydraulic pressure to 300 lbs. per square inch.	1	4	9	„	
4049	30-10-90	Weigh Bridge ...	Platform 16 feet long, to weigh up to 20 tons or 544½ maunds, with steel yard, graduated for the English weights. Rails of platform to be of steel vignoles section and to weigh 75 lbs. per yard.	138	0	0	Each.	
3822	11-9-90	Weighing Machines.	Platform, with steel yards, graduafed for Indian and English weights, to weigh up to 28 maunds.	13	0	0	Each.	
„	„		Platform, with steel yards, graduated for Indian and English weights, to weigh up to 14 maunds.	10	10	0	„	
4091	5-11-90		Platform to weigh up to 20 maunds or 15 cwt. with steel yards, graduated for Indian and English weights.	12	16	0	„	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board.				Remarks.
				Amount.			Unit.	
				£	*s.*	*d.*		
3168	13-1-90	Weighing Machines—*concld.*	Platform, with steel yards, graduated for Indian weights, to weigh up to 14 maunds.	10	2	0	Each.	
3510	24-5-90		Duplex patent for weighing small coal, with 24″ dial, graduated for Indian and English weights, to weigh up to 10 cwt.	21	0	0	,,	For Warora Colliery
3600	21-6-90		Hydrostatic, Duckham's suspended and self indicating, to weigh up to 3 tons.	90	0	0	,,	
3552	6-6-90		Self indicating, for weighing coal tubs on pit bank of colliery platforms, 3′ 6″ × 2′ 0″, graduated for Indian and English weights.	40	0	0	,,	Hodgson and Steads' patent.

R. A. SARGEAUNT Lieut.-Col., R.E.,

Offg. Director General of Railways.

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

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

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

Circular No. 13.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

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

Rate List, Class F.—"Station materials and Fencing" for 1890.

Simla, the 15th July 1891.

SIR,

I have the honour to forward herewith, for information and guidance, a printed statement showing actual rates free on board in England for Class F. stores "Station materials and Fencing" contracted for by the Stores Department of the India Office for State Railways from January to December 1890.

2. A table giving the average rates of sea-freight for F. Class stores is prefixed to the Rate List.

I have the honour to be,

SIR,

Your most obedient Servant,

R. A. SARGEAUNT, Lieut.-Col., R.E.,

Offg. Director General of Railways.

Documents accompanying.

(1) Table of sea-freight.
(2) Rate List, Class F.—"Station materials and Fencing" for 1890.

Pw 605e
8980/91

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

14 Questions
dy 25/8/91

TO

Circular No. 13.

Dated Simla, 15th July 1891.

Received

INDIAN STATE RAILWAYS.

Rate List, Class F.—"Station materials and Fencing" for 1890.

G. C. Press, Simla.—1655 P. W. D.—23-7-91—1,100.

Enclosure to Director General of Railways' Circular No. 13 of 1891.

RATE LIST.

CLASS F.

STATION MATERIALS AND FENCING

FOR 1890.

G. C. Press, Simla.—No. 1655 P. W. D.—27-7-91.—1,100.

RATE LIST.

CLASS F.

STATION MATERIALS AND FENCING

FOR 1890.

Enclosure to Director General of Railways' Circular No. 13 of 1891.

Statement showing the latest average rates per ton for entire sea-freight on F. Class stores,—Station materials and Fencing,—sent out from England to the several ports in India.

—	Port of Bombay.	Port of Calcutta.	Port of Karachi.	Port of Madras.	Port of Rangoon.	
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
Cranes, water, pillar, long neck, complete	...*	0 16 0	0 11 9	...*	1 15 0	* None shipped to these ports in 1890 and 1891.
Fencing wire, materials for—	...	0 12 3	0 12 0	...	1 12 0	
Piping, iron, cast, and connections for—	...	...	1 0 0	...	1 7 6	
Ditto wrought ditto	...	0 12 0	...	...	1 3 6	
Pumps	...	0 17 6	...	...	1 5 0	
Roofing, iron	...	...	0 17 0	...	1 0 0	
Signals	...	0 12 6	0 14 0	...	1 2 6	
Turntables, engine...	...	...	0 12 0	...	1 5 0	
Weigh bridges	...	1 7 6	...	...	1 10 0	
Weighing machines	0 14 9	0 10 6	0 13 11	...	1 10 0	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3406	10-4-90	Clocks.	Station, in teak cases, 4′ long, with 24 hourdial, 14″ diameter	8	1	0	Each.	
3935	13-10-90		,, ,, ,, ,, ,, ,, ...	8	9	0	,,	
3995	21-10-90		,, ,, ,, ,, ,, ,, ...	8	11	0	,,	
4038	28-10-90		Office, not striking, with 12″ dials, in ordinary round teak case... ...	3	3	6	,,	
3293	27-2-90	Cranes, Water, or water Columns.	Pillar, long neck, with pipes, &c, complete	30	12	0	Each.	Approximate weight 20 cwt. each.
3812	9-9-90		,, ,, ,, ,, ...	38	5	0	,,	With valves to resist frost.
3970	17-10-90		,, ,, ,, ,, ...	30	15	0	,,	
3853	23-9-90	Fencing, Wire; Materials for—	Bases, cast iron	4	7	6	Ton.	
4000	23-10-90		,, ,, ...	4	5	0	,,	
3189	24-1-90		Bolts, eye, straining, galvanized, with nuts and washers	20	15	0	,,	
4002	23-10-90		,, ,, ,, ,, ,, 1′ 7½″ long ...	20	15	0	,,	Weight 3·133 lbs. each.
4018	23-10-90		,, ,, ,, ,, ,, ...	22	0	0	,,	
3848	19-9-90		,, ,, ,, ,, ,, ...	22	10	0	,,	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3852	23-9-90	Fencing, Wire; Materials for—*contd.*	Posts, iron, intermediate	8	15	0	Ton.	
4009	23-10-90		„ „	7	15	0	„	
3852	23-9-90		„ stiffening	10	0	0	„	
4009	23-10-90		„ „	9	0	0	„	
3853	23-9-90		„ straining	4	17	6	„	
4000	23-10-90		„ „	4	15	0	„	
3614	26-6-90		Staples, galvanized, for 4 barbed wire fencing	13	0	0	„	
3424	1-5-90		Wedges, wrought iron	16	0	0	„	
3852	23-9-90		„ „	16	0	0	„	
4009	23-10-90		„ „	15	10	0	„	
3211	30-1-90		Wire, iron, galvanized, No. 6 S. W. G., solid	18	0	0	„	The wire in the black is to weigh 502 lbs. per mile.
3614	26-6-90		„ barb, „ „ 12 „ in reels of 533 yards, 4 barbed ...	16	11	0	„	1 Reel=1 cwt. or 533 yards=112 lbs.
3855	26-9-90		„ strand, galvanized, in coils of 450 yards each, 14 S. W. G. ...	15	0	0	„	
3998	21-10-90		„ „ „ „ „ „	15	10	0	„	164 lbs. per coil.
4001	23-10-90		„ „ „ „ „ „	14	7	6	„	
3823	11-9-90	Fountains ...	Drinking, with 4 cocks to each	10	14	0	Each.	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3713	16-7-90	Hydrants.	With stand pipes, twin, 2½″ bore	8	7	6	Each.	
3811	9-9-90		With a small tap on each, for drinking water	8	4	0	„	Tracings £1.
4201	31-12-90		„ „ „ with two hose connections	8	13	6	„	Photos. £1.
3934	11-10-90	Pipes, Iron, Cast.	Double flanged, 9 feet long, 9″ bore, $\frac{9}{16}$″ thick	5	7	6	Ton.	Weight of 1 pipe = 528 lbs.
„	„		„ 9 „ 6″ „ ½″ „	5	7	6	„	„ „ =319 „
3681	7-7-90		„ 9 „ 6″ „ $\frac{7}{16}$″ „	6	9	6	„	„ „ =259 „
3581	16-6-90		„ 9 „ 4″ „ ¾″ „	7	12	6	„	„ „ =160 „
3681	7-6-90		„ 6 „ 6″ „ $\frac{7}{16}$″ „	6	9	6	„	„ „ =186 „
3581	16-6-90		Spigot and socket, 9 „ 4″ „ ¾″ „	5	12	6	„	„ „ =160 „
3581	16-6-90	Pipes, Iron, Cast; Connections for—	Bends, 90° for 4″ bore spigot and socket pipes	10	5	0	Ton.	One bend =84 lbs.
3934	11-10-90		„ 90° „ 6″ „ „	8	17	6	„	„ „ =152 „
			„ 45° „ 6″ „ „					„ „ =144 „
			„ 45° „ 9″ „ „					„ „ =252 „
			Bolts and nuts, ⅞″ for sluice valves	28	0	0	„	One bolt =1·375 lbs.
			Breeches, 45°	8	17	6	„	One breech=322 lbs.
			Collars, 9″ bore	8	17	6	„	One collar=112 lbs.
„	„		„ 6″ „	8	17	6	„	„ „ =56 „

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3581	16-6-90	Pipes, Iron, Cast; Connections for—*contd.*	Flanged spigot, 4″ bore, for spigot and socket pipes	10	5	0	Ton.	One spigot = 238 lbs.
3934	11-10-90		„ „ 6″ „	8	17	6	„	„ „ = 70 „
„	„		„ sockets 6″ „	8	17	6	„	„ „ = 77 „
3683	7-7-90		Bolts and nuts, black, for flanges, 3½″ underhead × ⅝″ diameter ...	17	0	0	„	
3581	16-6-90		Flanged sockets, 4″ bore for spigot and socket pipes	10	5	0	„	One spigot = 12 lbs.
3934	11-10-90		Tees, 6″ bore	8	17	6	„	One Tee pipe = 238 lbs.
3581	16-6-90		„ for 4″ „ spigot and socket pipes	10	5	0	„	„ „ = 119 „
3934	11-10-90		Valves, sluice, 6″ bore	3	10	0	Each.	
3581	16-6-90		„ „ 4″ „	1	15	0	„	
„	„		Keys for valve 4″ T handled, 3 feet long	0	5	0	„	
3934	11-10-90		„ „ 6″ „ „	0	15	0	„	
3503	24-5-90	Pipes, Iron, Wrought.	Gas, butt welded, with screwed ends and couplings—					
			1″ internal diameter 1½″ „ „ 1¾″ „ „ 2″ „ „ } In lengths of 10 feet	0	0	5½	Foot.	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3218	1-2-90	Pipes, Iron, Wrought—*concld.*	Lap welded, with screwed ends and couplings— Galvanized 2″ internal diameter } In lengths of 15 feet	0	0	10½	Foot.	
3682	7-7-90		2¼″ „ „	0	1	1	„	
3578	14-6-90		With sockets and screwed ends— 1½″ „ „ } In straight lengths of 12 feet ...	0	0	4	„	
„	„		3″ „ „	0	1	0½	„	
3722	18-7-90		1″ diameter	0	0	2½	„	
			2″ „	0	0	6	„	For hydraulic pumps.
			3″ „ } In lengths of 10 feet	0	1	3¼	„	
			4″ „	0	2	0	„	
3578	14-6-90	Pipes, Iron, Wrought; Connections for—	Bends, 90°, for 1½″ pipes, with sockets	0	0	6½	Each.	
„	„		„ 90°, „ 3″ „ „	0	3	9½	„	
3218	1-2-90		„ 90°, „ 2″ „ „	0	2	2	„	
3682	7-7-90		„ 90°, „ 2¼″ „ galvanized	0	2	7½	„	
3683	7-7-90		Galvanized bolts and nuts for flanges 1¾″ underhead × ½″ diameter ...	0	0	7	lb.	
3583	16-6-90		Cocks, ball, screwed, for 3″ pipes, with copper ball complete ...	3	19	0	Each.	
3218	1-2-90		Couplings or joint pieces 2″, in lengths of 12″, with socket and back nut, one side of each faced.	0	2	6	„	
„	„		Elbows, 2″ bore	0	1	9	„	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3682	7-7-90	Pipes, Iron, Wrought; Connections for—*contd.*	Galvanized Flanges, $6\frac{1}{2}$" diameter, each drilled for 4 bolts $\frac{1}{2}$" diameter, diameter of bolt circle 5".	0	1	7	Each.	
3583	16-6-90		Cocks, stop round way iron with brass plugs, screwed, for $1\frac{1}{2}$" pipes ...	0	11	3	"	
"	"		" " " " " 3" " ...	2	7	6	"	
3218	1-2-90		Tee pieces, 2" bore	0	2	0	"	
3578	14-6-90		" $1\frac{1}{2}$" out of 3"	0	3	6	"	
3583	16-6-90		T keys, for $1\frac{1}{2}$" cocks	0	3	6	"	
			" " 3" "	0	4	9	"	
3757	6-8-90	Presses, Dating.	Tape, inking, for—to be inked, and in rolls of 60 yards each ...	0	6	0	⅝ yds.	
3199	25-1-90		Ticket (press only)	1	4	0	Each.	
3213	30-1-90		" " and inking	1	10	0	"	
3793	28-8-90		" with type complete	2	5	0	"	
3324	7-3-90		" to print date, with a set of type complete	2	5	0	"	
3653	3-7-90		" " " " "	2	5	6	"	
3862	2-9-90		" " " " "	2	0	0	"	
3199	25-1-90		Type, spare, in boxes, for above	0	13	0	Box.	
3213	30-1-90		" " " "	0	15	0	"	
3653	3-7-90		" " " "	0	9	3	"	
3862	2-9-90		" " " "	0	12	0	"	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3794	28-8-90	Pump ...	Pulsometer, No. 4, with foot and back pressure valves	31	10	0	Each.	
4125	7-11-90	Pumps, deep well ..	Treble barrels, single acting, each 7 "diameter and 18" stroke, with guide rods, girders, top and bottom frames, main shaft (from well to tank) with 5 feet diameter gearing wheels, couplings and plummer blocks, supply service and overflow pipes, bends, and all other fittings complete.	315	0	0	Each.	Approximate weight 14½ tons.
3969	17-10-90	Pumps, Steam.	6 H. P. engines and boilers, with suitable pumps for supplying water for use of Locomotives from wells 100 feet deep, with piping. Each pump is to have 27 feet of suction and 99 feet of plelivery pipes. *Dimensions of Engines, Boilers and Pumps.* Diameter of steam cylinder ... 9 inches. Length of stroke ... 10 inches. Diameter of boiler ... 3 feet 2 inches. Height of boiler ... 7 feet 0 inches. Number of conical water tubes, in ditto—two. Diameter of pump barrel, 6 inches. Stroke of pumps (double acting) 12 inches, changeable to 8 inches. Number of pumps (double acting)—two.	320	0	0	Each.	Photos. £7-10-0. The engines are supplied with duplicate parts.

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3564	10-6-90	Pumps, Steam —*concld.*	Special, with vertical boiler, mounted on cast iron bed plate, with duplicate parts, &c. The water is to be forced 100 feet high.	174	15	0	Each.	3 sets tracings and 6 photos. £ 1-15-0.
3850	23-9-90		6 H. P. with boiler complete, for station wells	282	10	0	,,	
4080	4-11-90	Roofing, Iron, complete.	Ungalvanized wrought iron work, for roofing of Engine Shed in two bays, each 120 feet long by 35 feet wide, with all bolts, nuts, washers and rivets, &c., complete.	345	0	0	Shed.	T. c. qr. lbs. Estimated weight 26 11 0 14
4097	6-11-90		Galvanized wrought iron work for ditto	340	9	6	,,	,, ,, 20 19 2 19
			Cost of 1 roof of Engine Shed complete ...	685	9	6	Total.	Total weight of roof ... 47 10 3 5
			For detailed rates see below :—					
4080	4-11-90		For all wrought iron work except bolts and nuts	12	15	8	Ton.	
			,, ,, ,, ,, ,, in bolts and nuts	22	0	0	,,	
4097	6-11-90		,, galvanized wrought iron corrugated sheets, with rivets, burrs, and clips, &c.	16	10	0	,,	
3153	2-1-90	Roofing, Iron; Spare parts of—	Galvanized wrought iron plain sheets	16	15	0	Ton.	
3162	8-1-90		,, ,, ,, corrugated sheets	16	2	6	,,	
,,	,,		,, ,, ,, ,, ,, curved	17	2	6	,,	
3153	2-1-90		,, ,, ,, bolts and nuts with washers	0	3	0	Gross.	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3162	8-1-90	Roofing, Iron; Spare parts of—*concld.*	Galvanized wrought iron clips, for sheets	30	2	6	Ton.	
3153	2-1-90		,, ,, ,, gutters	20	2	6	,,	
			,, ,, ,, ridge plates	20	2	6	,,	
			,, ,, ,, rivets and burrs	27	2	6	,,	
			,, ,, ,, wind ties	17	2	6	,,	
3709	12-7-90	Safes, Cash.	Iron, 3′ 0″ × 2′ 6″ × 2′ 0″	16	4	0	Each.	See also under G.b. (8).
3996	21-10-90		,, 3′ 0″ × 2′ 6″ × 2′ 0″ outside diameter Fire proof	15	10	0	,,	By Hobb's Hart and Company, Powder proof lock with 4 Keys.
3947	15-10-90		,, 2′ 0″ × 1′ 6″ × 1′ 6″ ,, ,, ,, ...	9	2	0	,,	Do. do. do. do.
4175	1-11-90		,, 1′ 6″ × 1′ 0″ × 1′ 0″ ,, ...	11	18	6	,,	
			Wrought iron, lattice, standards, with fittings, complete—					
3532	3-6-90	Signals, Semaphore.	Distant, 28′ high from ground to centre of spectacle	21	15	0	Set.	
			,, 30′ ,, ,, ,, ...	22	5	0	,,	£ s. d.
			Main, 28′ ,, ,, ,, ...	21	15	0	,,	6 unmounted photos. and 3 sets hand-made tracings ... 12 0 0 Lot.
			,, 39′ ,, ,, ,, ...	26	0	0	,,	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
			Fittings for, in sets—					
3824	11-9-90	Signals, Semaphore—*contd.*	Distant, complete, with lamps but without posts	16	0	0	Set.	Lamps to burn petroleum as on North Western Railway. Extra for North Western Railway Lamps, £1-18-0.
3861	29-9-90		,, ,, except lamps and posts	19	3	0	,,	
,,	,,		Station, ,, ,, ,, ,, ...	6	10	0	,,	
3824	11-9-90		,, with lamps but without posts	8	0	0	,,	
3628	30-6-90		Distant, complete, except posts	8	0	0	,,	
,,	,,		Station, ,, ,, ,, ...	14	0	0	,,	
3861	29-9-90	Signals, Semaphore; Spare parts of—	Lamps, semaphore, signal, distant	1	1	0	Each.	
3628	30-6-90		,, ,, ,, station	1	9	4	,,	
,,	,,		,, ,, ,, ,, ...	1	10	0	,,	
3861	29-9-90		,, burners ,, distant	0	10	3	,,	
,,	,,		,, glasses ,, ,, ...	0	3	9	Set.	
,,	,,		,, ,, ,, station	0	5	3	,,	
3758	6-8-90	Signal Apparatus...	Interlocking, with points, complete, with iron signal posts of the double lattice type and fittings, complete.	433	13	1	Set.	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
3486	22-5-90	Shutters ...	Revolving, steel, for workshop doors, about 16′ 6″ × 13′ 0″ or thereabout, to fit archways.	35	12	6	Each.	
3810	9-9-90	Turntable Engine.	50 feet diameter, 5′ 6″ gauge	44	2	0	Each.	
4165	19-11-90		Centre pillar, for engine turntable metre gauge—36 feet diameter, as supplied on Contract 3122 of 11th February 1889.	12	2	11	,,	
3730	19-7-90	Valves ...	India-rubber, red, for air pump, 6″ diameter × ⅝″ thick × ¼″ hole, for 30 H. P. surface condensing engine	0	2	9	Each.	
3759	6-8-90	Valves, Steam ...	Stop, flanged, 3″ diameter, bodies to be made of cast iron with gun metal valves and seats, and best mild steel spindle. To be tested by hydraulic pressure to 300 lbs. per square inch.	1	4	9	,,	
4049	30-10-90	Weigh Bridge ...	Platform 16 feet long, to weigh up to 20 tons or 544½ maunds, with steel yard, graduated for the English weights. Rails of platform to be of steel vignoles section and to weigh 75 lbs. per yard.	138	0	0	Each.	
3822	11-9-90	Weighing Machines.	Platform, with steel yards, graduated for Indian and English weights, to weigh up to 28 maunds.	13	0	0	Each.	
,,	,,		Platform, with steel yards, graduated for Indian and English weights, to weigh up to 14 maunds.	10	10	0	,,	
4091	5-11-90		Platform to weigh up to 20 maunds or 15 cwt. with steel yards, graduated for Indian and English weights.	12	16	0	,,	

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

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Rate—Free on board.				Remarks.
				Amount.			Unit.	
				£	s.	d.		
3168	13-1-90	Weighing Machines—*concld.*	Platform, with steel yards, graduated for Indian weights, to weigh up to 14 maunds.	10	2	0	Each.	
3510	24-5-90		Duplex patent for weighing small coal, with 24″ dial, graduated for Indian and English weights, to weigh up to 10 cwt.	21	0	0	,,	For Warora Colliery
3600	21-6-90		Hydrostatic, Duckham's suspended and self indicating, to weigh up to 3 tons.	90	0	0	,,	
3552	6-6-90		Self indicating, for weighing coal tubs on pit bank of colliery platforms, 3′ 6″ × 2′ 0″, graduated for Indian and English weights.	40	0	0	,,	Hodgson and Steads' patent.

R. A. SARGEAUNT Lieut.-Col., R.E.,

Offg. Director General of Railways.

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

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

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

Circular No. 13.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

To

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

Rate List, Class F.—"Station materials and Fencing" for 1890.

Simla, the 15th July 1891.

SIR,

I have the honour to forward herewith, for information and guidance, a printed statement showing actual rates free on board in England for Class F. stores "Station materials and Fencing" contracted for by the Stores Department of the India Office for State Railways from January to December 1890.

2. A table giving the average rates of sea-freight for F. Class stores is prefixed to the Rate List.

I have the honour to be,

SIR,

Your most obedient Servant,

R. A. SARGEAUNT, Lieut.-Col., R.E.,

Offg. Director General of Railways.

Documents accompanying.

(1) Table of sea-freight.
(2) Rate List, Class F.—"Station materials and Fencing" for 1890.

No 2302 W&P/26 Augt 1891

Communicated to officers of the P.W. Dept for information, in continuation of G.O No. 2301 W&P/26 Augt 1891.

Std/JO

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

TO

Circular No. 13.

Dated Simla, 15th July 1891.

Received

INDIAN STATE RAILWAYS.

Rate List, Class F.—"Station materials and Fencing" for 1890.

C. Es. for I
Changes
C. A to book
Supt of Works P.W
Asst. P.W. Accts

G. C. Press, Simla.—1655 P W. D.—23-7-91—1,100.

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

RATE LIST.

CLASS A.

IRON BRIDGEWORK

FOR 1890.

G. C. Press, Simla.—No. 1587 P. W. D.—7-7-91—1,150.

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

RATE LIST.

CLASS A.

IRON BRIDGEWORK

FOR 1890.

G. C. Press, Simla.—No. 1587 P. W. D.—7-7-91—1,150.

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

RATE LIST.

CLASS A.

IRON BRIDGEWORK

FOR 1890.

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

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

CLASS OF STORES. A.—IRON BRIDGEWORK.

5′ 6″ Gauge.

Contracted for in 1890.

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

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

5′ 6″ GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper *or* Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Ft.												
4075	3-11-90	40	5′ 6″	Upper ...	Girders, plate, complete	9	1	2	19	104	13	6	Span.	
					For all steel and girder work, including rivets, rivet rods, and spare rivets	8	18	3	18	11	7	0	Ton.	
					For all bolts, nuts, and washers, except service bolts	0	2	2	8	21	2	6	,,	
					For all service bolts, nuts, and washers	0	0	0	21					
4192	16-12-90	40	,,	,, ...	Girders, plate, complete	16	3	3	18	183	2	4	Span.	
					For all steel in girder work, including rivets, spare rivets, and rivet rods	16	0	0	0	11	2	0	Ton.	
					For all galvanized hook bolts, nuts, and washers	0	2	1	18	1	14	4½	Cwt.	
					For all service bolts, &c.	0	1	2	0	0	18	4½	,,	
3402	5-4-90	43′ 8″	,,	,, ...	Girders, plate, complete	11	4	1	21	165	0	1	Span.	
					For all steel in girder work, including rivets, rivet rods, and spare rivets.	11	1	0	0	14	10	0	Ton.	
					For all bolts, nuts, and washers, (*Hook bolts*)	0	2	2	21	30	0	0	,,	
					For all service bolts, nuts and washers	0	0	3	0	20	0	0	,,	
3803	2-9-90	43′ 8″	,,	,, ...	Girders, plate, complete	11	4	1	21	165	0	0	Span.	
					For all steel in girder work, including rivets, rivet rods, and spare rivets.	11	1	0	0	14	10	0	Ton.	
					For all bolts, nuts and washers, except service bolts	0	2	2	21	30	0	0	,,	
					For all service bolts, nuts, and washers	0	0	3	0	20	0	0	,,	

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

5′ 6″ GAUGE.

Contracted for in 1890.

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

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

5′ 6″ GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper *or* Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Ft.												
4058	31-10-90	81′ 5″ (centres)	5′ 6″	Upper ...	Girders, triangulated, complete	27	6	1	10	337	15	0	Span.	For Malir Bridge, North-Western Railway.
					For all steel in girder work, including rivets, and rivet rods, and spare rivets.	27	0	0	0	12	5	0	Ton.	
					For all bolts, nuts and washers, except service bolts	0	3	1	10	22	0	0	,,	
					For all service bolts, nuts and washers	0	3	0	0					
3402	5-4-90	86 (over all)	,,	,, ...	Girders, plate, complete	48	11	1	14	669	6	8	Span.	
					For all steel in girder work, including rivets, rivet rods, and spare rivets	48	7	1	0	13	15	0	Ton.	
					For all bolts, nuts and washers, except service bolts, *Foundation bolts*	0	1	0	14	24	0	0	,,	
					For all service bolts, nuts and washers	0	3	0	0	20	0	0	,,	
4196	19-12-90	100	5′ 6″	Between	Girders, triangulated, complete	70	19	3	0	813	13	8	Span.	
					For all steel in girder work, including rivets, spare rivets, and rivet rods.	70	12	2	0	11	8	6	Ton.	
					For all steel in bolts and nuts	0	2	3	0	19	7	0	,,	
					For all wrought-iron or steel in service bolts, nuts and washers ...	0	4	2	0	18	7	0	,,	

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

5′ 6″ GAUGE.

Contracted for in 1890.

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

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

METRE GAUGE.

Contracted for in 1890.

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

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

METRE GAUGE.

Contracted for in 1890.

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

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

METRE GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper *or* Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Ft.												
3604	23-6-90	40	Metre	Upper ...	Girders, plate, complete	7	8	1	24	94	6	10	Span.	
					For all steel in girder work, including rivets, and spare rivets ...	7	4	1	9	12	10	0	Ton.	
					For all bolts, and nuts, except service bolts	0	3	3	22	20	0	0	„	
					For all service bolts, nuts, and washers	0	0	0	21	20	0	0	„	
3156	3-1-90	40	„	„ ...	Girders, plate, complete	8	15	2	0	112	2	7	Span.	
					For all steel and iron in girder work, including rivets, spare rivets, and rivet rods	8	10	2	0	12	12	6	Ton.	
					For all steel in bolts, and nuts	0	4	1	0	18	0	0	„	
					For all wrought iron in service bolts, nuts and washers ...	0	0	3	0	18	0	0	„	
4076	4-11-90	40	„	„ ...	Girders, plate, complete	9	1	3	13	127	8	6	Span.	
					For all steel in girder work, including rivets, and spare rivets ...	8	17	2	13	13	15	0	Ton.	
					For all bolts, nuts, and washers, except service bolts	0	3	2	0	25	0	0	„	
					For all service bolts, nuts, and washers	0	0	3	0					
3157	3-1-90	100	„	Between ...	Girders, triangulated, complete...	71	11	2	5	999	16	9	Span.	
					For all steel and iron in girder work including rivets, and spare rivets ... ... Steel ...	67	6	2	0	13	17	6	Ton.	
					Iron ...	0	9	1	0	12	0	0	„	

8

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

METRE GAUGE.

Contracted for in 1890.

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

9

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

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

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

Pw 6056
8811/91

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

TO

Circular No. 11.

Dated Simla, 26th June 1891.

Received

RATE LIST, CLASS A.
Iron Bridgework for 1890.

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

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

RATE LIST.

CLASS A.

IRON BRIDGEWORK

FOR 1890.

G. C. Press, Simla.—No. 1587 P. W. D.—7-7-91—1,150.

[*For General Distribution.*]

Circular No. 11.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

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

Rate List, Class A.—Iron Bridgework for 1890.

Simla, the 26th June 1891.

SIR,

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

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

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

I have the honour to be,
SIR,
Your most obedient Servant,

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

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

RATE LIST.

CLASS A.

IRON BRIDGEWORK

FOR 1890.

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

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

CLASS OF STORES. A.—IRON BRIDGEWORK.

5′ 6″ Gauge.

Contracted for in 1890.

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

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

5′ 6″ GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper *or* Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Ft.												
4075	3-11-90	40	5′ 6″	Upper ...	Girders, plate, complete	9	1	2	19	104	13	6	Span.	
					For all steel and girder work, including rivets, rivet rods, and spare rivets	8	18	3	18	11	7	0	Ton.	
					For all bolts, nuts, and washers, except service bolts	0	2	2	8	21	2	6	„	
					For all service bolts, nuts, and washers	0	0	0	21					
4192	16-12-90	40	„	„ ...	Girders, plate, complete	16	3	3	18	183	2	4	Span.	
					For all steel in girder work, including rivets, spare rivets, and rivet rods	16	0	0	0	11	2	0	Ton.	
					For all galvanized hook bolts, nuts, and washers	0	2	1	18	1	14	4½	Cwt.	
					For all service bolts, &c.	0	1	2	0	0	18	4½	„	
3402	5-4-90	43′ 8″	„	„ ...	Girders, plate, complete	11	4	1	21	165	0	1	Span.	
					For all steel in girder work, including rivets, rivet rods, and spare rivets.	11	1	0	0	14	10	0	Ton.	
					For all bolts, nuts, and washers, (*Hook bolts*)	0	2	2	21	30	0	0	„	
					For all service bolts, nuts and washers	0	0	3	0	20	0	0	„	
3803	2-9-90	43′ 8″	„	„ ...	Girders, plate, complete	11	4	1	21	165	0	0	Span.	
					For all steel in girder work, including rivets, rivet rods, and spare rivets.	11	1	0	0	14	10	0	Ton.	
					For all bolts, nuts and washers, except service bolts	0	2	2	21	30	0	0	„	
					For all service bolts, nuts, and washers	0	0	3	0	20	0	0	„	

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

5′ 6″ GAUGE.

Contracted for in 1890.

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

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

5′ 6″ GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper *or* Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Ft.												
4058	31-10-90	81′ 5″ (centres)	5′ 6″	Upper ...	Girders, triangulated, complete	27	6	1	10	337	15	0	Span.	For Malir Bridge, North-Western Railway.
					For all steel in girder work, including rivets, and rivet rods, and spare rivets.	27	0	0	0	12	5	0	Ton.	
					For all bolts, nuts and washers, except service bolts	0	3	1	10	22	0	0	,,	
					For all service bolts, nuts and washers	0	3	0	0					
3402	5-4-90	86 (over all)	,,	,, ...	Girders, plate, complete	48	11	1	14	669	6	8	Span.	
					For all steel in girder work, including rivets, rivet rods, and spare rivets	48	7	1	0	13	15	0	Ton.	
					For all bolts, nuts and washers, except service bolts, *Foundation bolts*	0	1	0	14	24	0	0	,,	
					For all service bolts, nuts and washers	0	3	0	0	20	0	0	,,	
4196	19-12-90	100	5′ 6″	Between	Girders, triangulated, complete	70	19	3	0	813	13	8	Span.	
					For all steel in girder work, including rivets, spare rivets, and rivet rods.	70	12	2	0	11	8	6	Ton.	
					For all steel in bolts and nuts	0	2	3	0	19	7	0	,,	
					For all wrought-iron or steel in service bolts, nuts and washers ...	0	4	2	0	18	7	0	,,	

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

5′ 6″ GAUGE.

Contracted for in 1890.

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

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

METRE GAUGE.

Contracted for in 1890.

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

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

METRE GAUGE.

Contracted for in 1890.

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

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

METRE GAUGE.

Contracted for in 1890.

Contract number and date.		Description. Clear span.	Gauge.	Roadway on Upper or Lower boom.	Details.	Estimated weight of each span. Tons.	cwt.	qr.	lbs.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
		Ft.												
3604	23-6-90	40	Metre	Upper ...	Girders, plate, complete	7	8	1	24	94	6	10	Span.	
					For all steel in girder work, including rivets, and spare rivets ...	7	4	1	9	12	10	0	Ton.	
					For all bolts, and nuts, except service bolts	0	3	3	22	20	0	0	„	
					For all service bolts, nuts, and washers	0	0	0	21	20	0	0	„	
3156	3-1-90	40	„	„ ...	Girders, plate, complete	8	15	2	0	112	2	7	Span.	
					For all steel and iron in girder work, including rivets, spare rivets, and rivet rods	8	10	2	0	12	12	6	Ton.	
					For all steel in bolts, and nuts	0	4	1	0	18	0	0	„	
					For all wrought iron in service bolts, nuts and washers ...	0	0	3	0	18	0	0	„	
4076	4-11-90	40	„	„ ...	Girders, plate, complete	9	1	3	13	127	8	6	Span.	
					For all steel in girder work, including rivets, and spare rivets ...	8	17	2	13	13	15	0	Ton.	
					For all bolts, nuts, and washers, except service bolts	0	3	2	0	25	0	0	„	
					For all service bolts, nuts, and washers	0	0	3	0					
3157	3-1-90	100	„	Between ...	Girders, triangulated, complete...	71	11	2	5	999	16	9	Span.	
					For all steel and iron in girder work including rivets, and spare rivets ... ... Steel ...	67	6	2	0	13	17	6	Ton.	
					Iron ...	0	9	1	0	12	0	0	„	

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

METRE GAUGE.

Contracted for in 1890.

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

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

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

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

[*For General Distribution.*]

Circular No. 11.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

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

Rate List, Class A.—Iron Bridgework for 1890.

Simla, the 26th June 1891.

SIR,

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

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

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

I have the honour to be,

SIR,

Your most obedient Servant,

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

No 2301 W d/26th Augt 1891

Communicated to officers of the P.W.D. for information in continuation of G.O. No 2300 W d/26th Augt 1891.

(Sd) J. P.
W

Ch: Engr for Irrign
Supts. Engrs
C. A. to Govt
Supt. of Wks P. Project
Exr. P. W. Accts

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

TO

Circular No. 11.

Dated Simla, 26th June 1891.

Received

RATE LIST, CLASS A.
Iron Bridgework for 1890.

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

Enclosure to Director General of Railways' Circular No. 10 of 1891.

RATE LIST.

CLASS D.

Permanent-Way Materials

FOR 1890.

Enclosure to Director General of Railways' Circular No. 10 of 1891.

Table of average sea freight for Permanent-Way Materials.

Details.	Average rate per ton.								Remarks.
	Calcutta *viâ* Canal.		Bombay *viâ* Canal.		Karachi *viâ* Canal.		Rangoon *viâ* Canal.		
	s.	*d.*	*s.*	*d.*	*s.*	*d.*	*s.*	*d.*	
Bolts, fish	14	6	15	9	15	8	23	0	This is the average rate for 1888, none having been got out since.
Crossings	12	4	26	8	23	3	17	6	
Plates, bearing	...		...		11	3	...		
Plates, fish	16	0	15	6	14	0	18	8	
Rails	15	8	15	9	16	3	17	8	
Sleepers	22	0	26	0	17	0	...		
Switches or points	18	0	26	0	23	0	17	6	

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—5′ 6″ GAUGE.

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
				lbs.					
3176	18-1-90	Bolts, Fish.	Steel, with nuts, for flat-footed rails	75	15	17	0	Ton.	
3254	17-2-90		" "	75	16	7	6	"	
	23-8-90		" "	75	15	10	0	"	
3536	3-6-90		Steel, with nuts, for double-headed rails	73	15	10	0	"	
3204	28-1-90		Steel, with nuts and washers	69½	18	0	0	"	
3937	14-10-90	Crossings.	Steel, built up for rails, steel, flat-footed, angle 1 in 8½	62	7	11	0	Set.	
3174	18-1-90	Plates, Fish.	Steel, for flat-footed rails	75	8	1	3	Ton.	
3255	17-2-90		Steel, for Vignoles, steel flat-footed rails	75	8	5	0	"	
3791	28-8-90		" " "	75	7	4	0	"	
3529	3-6-90		Steel, new pattern, with 6 holes, for steel double-headed rails	73	7	0	0	"	
3175	18-1-90	Rails.	Bessemer steel, (Vignoles) flat-footed 30 feet long	75	7	7	6	Ton.*	* Subject to a reduction of 2*s.* 6*d.* per ton if the usual percentage of short lengths are taken.
3251	17-2-90		" " "	75	7	4	0	"	
3283	24-2-90		" " " of assorted lengths	75	6	14	0	"	With three holes at each end.

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—5′ 6″ GAUGE—*contd.*

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
				lbs.					
3790	28-8-90	Rails—*concld.*	Bessemer steel, (Vignoles) flat-footed, 30 feet long	75	5	4	0	Ton.	With three holes at each end.
3875 } 3876	3-10-90		„ „ „ of assorted lengths	75	5	9	0	„	
				75	5	10	0	„	
4189	13-12-90		„ „ „ „	75	5	3	9	„	New section.
3531	3-6-90		„ double-headed, 30 feet long	73	5	3	0	„	
3555	9-6-90	Sleepers.	Cast iron, plate, complete, with fastenings	73	4	18	6	Ton.	Denham-Olphert pattern.
			Fastings for—						
3555	9-6-90		Cotters, for Denham-Olphert sleepers	73	15	15	0	„	
„	„		Gibs in sleepers	73	15	15	0	„	
„	„		Tie-bars in sleepers	73	7	17	6	„	
3225	5-2-90	Spikes, Dog.	For flat-footed steel rails	75	15	0	0	Ton.	
4186 & 4187	12-12-90		For „ „ (new section)	75	12	5	0	„	

CLASS OF STORES D.—BALLAST AND PERMANENT WAY—5″ 6″ GAUGE—*concld.*

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
				lbs.					
3937	14-10-90	Switches or points.	Complete length of tongue, 12 feet, to suit crossings for steel flat-footed rails Angle, 1 in 8½.	62	10	11	0	Set.	
			Spare parts of—						
4173	27-11-90		Bolts, double locking, for facing points, Saxby and Farmer's patent ...	75	7	0	0	„	
3203	28-1-90		Rails, stock, 20 feet long, for double-headed steel rails	69½	8	0	0	Ton.	

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—METRE GAUGE.

Contracted for in 1890.

Contract number	Contract date	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
				lbs.					
3372	22-3-90	Bolts, Fish.	Steel, with nuts and washers, for flat-footed rails	50	17	15	0	Ton.	
3266	20-2-90		" " "	41½	18	15	0	"	
3416	18-4-90		" " "	"	17	15	0	"	
3632	1-7-90		" " "	"	17	0	0	"	
3802	2-9-90		" " "	"	17	10	0	"	
3993	21-10-90		" " "	"	15	10	0	"	
3227	6-2-90		" " "	20	35	0	0	"	Vignoles Section.
3602	21-6-90	Crossings.	Steel, built up, complete, for flat-footed rails— Angles, 1 in 6¾	50	6	16	0	No.	Tracings at 10 annas 6 pie per sheet.
			" 1 in 9½						
			" 1 in 12					"	
3284	25-2-90		" 1 in 7	41½	7	1	6	"	
3338	1-7-90		" 1 in 7		6	6	0	"	
3968	17-10-90		" 1 in 9		5	13	6	"	
3284	25-2-90		" 1 in 10		7	1	6	"	
3638	1-7-90		" 1 in 10		6	6	0	"	

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—METRE GAUGE—*contd.*

Contracted for in 1890.

Contract number	Contract date	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
				lbs.					
3161	6-1-90	Plates, Fish.	Steel, for Vignoles steel rails	50	10	5	0	Set of 4 per set.	Deep web.
3371	21-3-90		" "	50	7	15	0	"	
3280	24-2-90		" "	41¼	7	10	0	Ton.	
3597	21-6-90		" "	41¼	8	0	0	"	
3789	23-8-90		" "	41¼	10	10	0	"	
3789	23-8-90		" "	41¼ & 50	1	2	0	Set of 4 per set.	Special.
3817	9-9-90		" "	41¼	8	10	0	Ton.	
3990	21-10-90		" "	41¼	6	19	6	"	
3227	6-2-90		Steel, to suit rails Vignoles Section, 20 lbs. per yard	20	30	0	0	"	
3160	6-1-90	Rails.	Bessemer steel, Vignoles, flat-footed, 30 feet long	50	7	12	6	Ton.	
3370	21-3-90		" " " "	"	6	6	6	"	
3253	17-2-90		" " " of assorted lengths	41¼	7	2	6	"	
3649	3-7-90		" " " " "	41¼	5	13	9	"	
3413	14-4-90		" " " 24 feet long	41¼	6	10	0	"	
3821	10-9-90		" " " " "	41¼	5	11	3	"	
4005	23-10-90		" " " " "	41¼	5	11	0	"	

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—METRE GAUGE—*contd.*

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
				lbs.					
3221	3-2-90	Rails—*concld.* ...	Pit, steel, flat-bottomed, 20 lbs. per yard in 18 feet lengths	20	9	0	0	Ton.	
3749	29-7-90		Tramway for colliery works, 18 feet long with holes bored in flanges on each side $\frac{7}{16}$″ diameter, 2 feet apart	18	7	12	6	„	
3530	3-6-90	Spikes, Dog.	For steel flat-footed rails	50	14	10	0	Ton.	
3328	8-3-90		„ „	41½	15	15	0	„	
3415	17-4-90		„ „	„	15	15	0	„	
3711	15-7-90		„ „	„	14	10	0	„	
3818	9-9-90		„ „	„	14	15	0	„	
4041	28-10-90		„ „	„	14	15	0	„	
3847	19-9-90	Spikes for tram rails.	Rail nails, 3½″ long	18	20	0	0	Ton.	
3739	26-7-90		„ 3½″ long × ⅜″ diar. with cup heads	18	17	0	0	„	For use with timber sleepers.
		Switches or points.	Complete, to suit built up steel crossings—						
3602	21-6-90		Angle, 1 in 6¾* ... ... } for flat-footed steel rails.	50	8	17	0	Set.	Length of tongue 9 feet } Tracings, extra, per sheet 10*s.* 6*d.*
			„ 1 in 9½ ... ... }	„	9	9	0	„	„ „ 12 „
			„ 1 in 12 ... ... }	„					

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—METRE GAUGE—*contd.*

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
			Complete, to suit built up steel crossings—	lbs.					
3284	25-2-90	Switches or points—*contd.*	Angle, 1 in 7 ... ... }		9	13	0	Set.	}
3638	1-7-90		„ 1 in 7 ... ... }		9	16	0	„	
3968	17-10-90		„ 1 in 9 ... ... } for flat-footed steel rails.	41¼	8	7	6	„	} Length of tongue 12 feet.
3284	25-2-90		„ 1 in 10 ... ... }		9	13	0	„	
3638	1-7-90		„ 1 in 10 ... ... }		9	16	0	„	
			Spare parts of—						
3284	25-2-90		Blocks, heel	41¼	0	1	10	Each.	
3857	27-9-90		„ „	„	0	2	6	„	
3857	27-9-90		„ „ bolts and nuts and washers for	„	1	0	0	Cwt.	Square headed 6″ × ¾″, screwed, 2″ long.
3857	27-9-90		Bolts for switches	„	0	15	0	Set.	
4170	25-11-90		„ iron, locking, for points	„	0	4	9	„	
3857	27-9-90		Chairs, slide	„	0	3	0	Each.	
3284	25-2-90		„ „	„	0	3	6	„	
3857	27-9-90		Distance pieces or blocks	„	0	2	6	„	
3284	25-2-90		Gauge bars	„	0	3	6	„	

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—METRE GAUGE—*concld.*

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
				lbs.					
			Spare parts of—concld.						
3857	27-9-90	Switches or points—*concld.*	Levers, complete	41¼	0	3	6	Each.	Each consisting of one bell crank with 2 turned pins and split pins.
3857	27-9-90		Lever handles	„	0	10	0	„	Each consisting of one lever cast iron weight, and set screw.
3284	25-2-90		„ „	„	0	18	6	„	Without padlocks.
3284	25-2-90		Pins, locking	„	0	2	6	„	Ditto.
3857	27-9-90		Rails, stock, 18 feet	„	1	5	6	„	
3638	1-7-90		„ „	„	1	5	0	„	
3857	1-7-90		„ tongue, 12 feet	„	1	0	0	„	
3857	27-9-90		„ „ „	„	1	0	6	„	
3284	25-2-90		„ „ „ right and left hand	„	1	1	0	„	

[*General Distribution.*]

Circular No. 10.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

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

Rate List for Class D. Permanent-Way Materials for 1890.

Simla, 17th June 1891.

SIR,

I have the honour to forward herewith, for information and guidance, a printed statement showing rates, *free on board* in England, of D Class, State Railway Stores, Permanent-way materials contracted for by the India Office in 1890.

2. The statement has been divided into two parts, the first part (pages 1 to 3) affords information regarding materials for 5′ 6″ gauge railways, and the second part (pages 4 to 8) furnishes similar information for metre and other narrow gauge railways.

3. A table showing average sea freight per ton of permanent-way materials landed in India at the various ports is prefixed for information.

I have the honour to be,
SIR,
Your most obedient Servant,

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

Documents accompanying.

1. Table of average sea freight for Permanent-Way Materials.
2. Rate List, Class D, Permanent-Way Materials for 1890.

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

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

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

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

TO

Circular No. 10.

Dated Simla, the 17th June 1891.

Received

RATE LIST, CLASS D.
Permanent-Way Materials, 1890.

G. C. Press, Simla.—No. 195 P. W, D.—26-6-91.—1,100.

[*General Distribution.*]

Circular No. 10.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

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

Rate List for Class D. Permanent-Way Materials for 1890.

Simla, 17th June 1891.

SIR,

I have the honour to forward herewith, for information and guidance, a printed statement showing rates, *free on board* in England, of D Class, State Railway Stores, Permanent-way materials contracted for by the India Office in 1890.

2. The statement has been divided into two parts, the first part (pages 1 to 3) affords information regarding materials for 5′ 6″ gauge railways, and the second part (pages 4 to 8) furnishes similar information for metre and other narrow gauge railways.

3. A table showing average sea freight per ton of permanent-way materials landed in India at the various ports is prefixed for information.

I have the honour to be,
SIR,
Your most obedient Servant,

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

Documents accompanying.

1. Table of average sea freight for Permanent-Way Materials.
2. Rate List, Class D, Permanent-Way Materials for 1890.

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

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

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

No. 2300 Wy/26 Augt 1891

Communicated to —
Officers of the P. W. Dept
in continuation of G. O
No. 1925 W D/11th July 1891.

/Sd/
J. P.
21/8

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

TO

Circular No. 10.

Dated Simla, the 17th June 1891.

Received

Ch. Engr. for Irrign
Supdg. Engrs
Supt of W. P. Project
C. A. to Govt
Exe Engr P. W. Accts

RATE LIST, CLASS D.
Permanent-Way Materials, 1890.

G. C. Press, Simla.—No. 195 P. W, D.—26-6-91.—1,100.

Enclosure to Director General of Railways' Circular No. 10 of 1891.

RATE LIST.

CLASS D.

Permanent-Way Materials

FOR 1890.

G. C. Press, Simla.—No. 195 P. W. D.—20-6-91.—1,100.

Enclosure to Director General of Railways' Circular No. 10 of 1891.

RATE LIST.

CLASS D.

Permanent-Way Materials

FOR 1890.

Enclosure to Director General of Railways' Circular No. 10 of 1891.

Table of average sea freight for Permanent-Way Materials.

Details.	Average rate per ton.								Remarks.
	Calcutta *viâ* Canal.		Bombay *viâ* Canal.		Karachi *viâ* Canal.		Rangoon *viâ* Canal.		
	s.	*d.*	*s.*	*d.*	*s.*	*d.*	*s.*	*d.*	
Bolts, fish	14	6	15	9	15	8	23	0	This is the average rate for 1888, none having been got out since.
Crossings	12	4	26	8	23	3	17	6	
Plates, bearing	...		...		11	3	...		
Plates, fish	16	0	15	6	14	0	18	8	
Rails	15	8	15	9	16	3	17	8	
Sleepers	22	0	26	0	17	0	...		
Switches or points	18	0	26	0	23	0	17	6	

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—5′ 6″ GAUGE.

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board.				Remarks.
					Amount.			Unit.	
				lbs.	£	s.	d.		
3176	18-1-90	Bolts, Fish.	Steel, with nuts, for flat-footed rails	75	15	17	0	Ton.	
3254	17-2-90		,, ,, ...	75	16	7	6	,,	
3788	23-8-90		,, ,, ...	75	15	10	0	,,	
3536	3-6-90		Steel, with nuts, for double-headed rails	73	15	10	0	,,	
3201	28-1-90		Steel, with nuts and washers	69½	18	0	0	,,	
3937	14-10-90	Crossings.	Steel, built up for rails, steel, flat-footed, angle 1 in 8½	62	7	11	0	Set.	
3174	18-1-90	Plates, Fish.	Steel, for flat footed rails	75	8	1	3	Ton.	
3255	17-2-90		Steel, for Vignoles, steel flat-footed rails	75	8	5	0	,,	
3791	28-8-90		,, ,, ,, ...	75	7	4	0	,,	
3529	3-6-90		Steel, new pattern, with 6 holes, for steel double-headed rails	73	7	0	0	,,	
3175	18-1-90	Rails.	Bessemer steel, (Vignoles) flat-footed 30 feet long	75	7	7	6	Ton.*	* Subject to a reduction of 2*s.* 6*d.* per ton if the usual percentage of short lengths are taken.
3251	17-2-90		,, ,, ,, ...	75	7	4	0	,,	
3283	24-2-90		,, ,, ,, of assorted lengths	75	6	14	0	,,	With three holes at each end.

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—5′ 6″ GAUGE—*contd.*

Contracted for in 1890.

Contract number	Date	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
				lbs.					
3790	28-8-90	Rails—*coneld.*	Bessemer steel, (Vignoles) flat-footed, 30 feet long	75	5	4	0	Ton.	With three holes at each end.
3875 } 3876 }	3-10-90		,, ,, ,, of assorted lengths	75	5	9	0	,,	
				75	5	10	0	,,	
4189	13-12-90		,, ,, ,, ,, ...	75	5	3	9	,,	New section.
3531	3-6-90		,, double-headed, 30 feet long	73	5	3	0	,,	
3555	9-6-90	Sleepers.	Cast iron, plate, complete, with fastenings	73	4	18	6	Ton.	Denham-Olphert pattern.
			Fastings for—						
			Cotters, for Denham-Olphert sleepers	73	15	15	0	,,	
3555	9-6-90		Gibs in sleepers	73	15	15	0	,,	
,,	,,		Tie-bars in sleepers	73	7	17	6	,,	
,,	,,								
3225	5-2-90	Spikes, Dog.	For flat-footed steel rails	75	15	0	0	Ton.	
4186 & 4187	12-12-90		For ,, ,, (new section)	75	12	5	0	,,	

CLASS OF STORES D.—BALLAST AND PERMANENT WAY—5″ 6″ GAUGE—*concld.*

Contracted for in 1890.

Contract number	Date	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
				lbs.					
3937	14-10-90	Switches or points.	Complete length of tongue, 12 feet, to suit crossings for steel flat-footed rails Angle, 1 in 8½.	62	10	11	0	Set.	
			Spare parts of—						
4173	27-11-90		Bolts, double locking, for facing points, Saxby and Farmer's patent ...	75	7	0	0	,,	
3203	28-1-90		Rails, stock, 20 feet long, for double-headed steel rails	69½	8	0	0	Ton.	

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—METRE GAUGE.

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
				lbs.					
3372	22-3-90	Bolts, Fish.	Steel, with nuts and washers, for flat-footed rails	50	17	15	0	Ton.	
3266	20-2-90		,, ,, ,, ...	41¼	18	15	0	,,	
3416	18-4-90		,, ,, ,, ...	,,	17	15	0	,,	
3632	1-7-90		,, ,, ,, ...	,,	17	0	0	,,	
3802	2-9-90		,, ,, ,, ...	,,	17	10	0	,,	
3993	21-10-90		,, ,, ,, ...	,,	15	10	0	,,	
3227	6-2-90		,, ,, ,, ...	20	35	0	0	,,	Vignoles Section.
		Crossings.	Steel, built up, complete, for flat footed rails—						
3602	21-6-90		Angles, 1 in 6½	50	6	16	0	No.	Tracings at 10 annas 6 pie per sheet.
			,, 1 in 9½						
			,, 1 in 12					,,	
3284	25-2-90		,, 1 in 7		7	1	6	,,	
3638	1-7-90		,, 1 in 7		6	6	0	,,	
3968	17-10-90		,, 1 in 9	41¼	5	13	6	,,	
3284	25-2-90		,, 1 in 10		7	1	6	,,	
3638	1-7-90		,, 1 in 10		6	6	0	,,	

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—METRE GAUGE—*contd.*

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
				lbs.					
3161	6-1-90	Plates, Fish.	Steel, for Vignoles steel rails	50	10	5	0	Set of 4 per set.	Deep web.
3371	21-3-90		,, ,, ...	50	7	15	0	,,	
3280	24-2-90		,, ,, ...	41¼	7	10	0	Ton.	
3597	21-6-90		,, ,, ...	41¼	8	0	0	,,	
3789	23-8-90		,, ,, ...	41¼	10	10	0	,,	
3789	23-8-90		,, ,, ...	41¼ & 50	1	2	0	Set of 4 per set.	Special.
3817	9-9-90		,, ,, ...	41¼	8	10	0	Ton.	
3990	21-10-90		,, ,, ...	41¼	6	19	6	,,	
3227	6-2-90		Steel, to suit rails Vignoles Section, 20 lbs. per yard	20	30	0	0	,,	
3160	6-1-90	Rails.	Bessemer steel, Vignoles, flat-footed, 30 feet long	50	7	12	6	Ton.	
3370	21-3-90		,, ,, ,, ,, ...	,,	6	6	6	,,	
3253	17-2-90		,, ,, ,, of assorted lengths	41¼	7	2	6	,,	
3649	3-7-90		,, ,, ,, ,, ,, ...	41¼	5	13	9	,,	
3413	14-4-90		,, ,, ,, 24 feet long	41¼	6	10	0	,,	
3821	10-9-90		,, ,, ,, ,, ,, ...	41¼	5	11	3	,,	
4005	23-10-90		,, ,, ,, ,, ,, ...	41¼	5	11	0	,,	

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—METRE GAUGE—*contd.*

Contracted for in 1890.

Contract number	Date	Articles	Details	Weight per yard of rails	Rate—Free on board. Amount. £	s.	d.	Unit	Remarks
				lbs.					
3221	3-2-90	Rails—*concld.* ...	Pit, steel, flat-bottomed, 20 lbs. per yard in 18 feet lengths	20	9	0	0	Ton.	
3749	29-7-90		Tramway for colliery works, 18 feet long with holes bored in flanges on each side $\frac{7}{16}$″ diameter, 2 feet apart	18	7	12	6	„	
3530	3-6-90	Spikes, Dog.	For steel flat-footed rails	50	14	10	0	Ton.	
3328	8-3-90		„ „	41¼	15	15	0	„	
3415	17-4-90		„ „	„	15	15	0	„	
3711	15-7-90		„ „	„	14	10	0	„	
3818	9-9-90		„ „	„	14	15	0	„	
4041	28-10-90		„ „	„	14	15	0	„	
3847	19-9-90	Spikes for tram rails.	Rail nails, 3½″ long	18	20	0	0	Ton.	
3739	26-7-90		„ 3½″ long × ⅜″ diar. with cup heads	18	17	0	0	„	For use with timber sleepers.
		Switches or points.	Complete, to suit built up steel crossings—						
3602	21-6-90		Angle, 1 in 6¾ ... ... } for flat-footed steel rails.	50	8	17	0	Set.	Length of tongue 9 feet } Tracings, extra, per sheet 10*s.* 6*d.*
			„ 1 in 9½ ... ... }	„	9	9	0	„	„ „ 12 „
			„ 1 in 12 ... ... }	„					

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—METRE GAUGE—*contd.*

Contracted for in 1890.

Contract number	Date	Articles	Details	Weight per yard of rails	Rate—Free on board. Amount. £	s.	d.	Unit	Remarks
				lbs.					
		Switches or points—*contd.*	Complete, to suit built up steel crossings—						
3284	25-2-90		Angle, 1 in 7		9	13	0	Set.	
3638	1-7-90		„ 1 in 7		9	16	0	„	
3968	17-10-90		„ 1 in 9 ... ... for flat-footed steel rails.	41¼	8	7	6	„	Length of tongue 12 feet.
3284	25-2-90		„ 1 in 10		9	13	0	„	
3638	1-7-90		„ 1 in 10		9	16	0	„	
			Spare parts of—						
3284	25-2-90		Blocks, heel	41¼	0	1	10	Each.	
3857	27-9-90		„ „	„	0	2	6	„	
3857	27-9-90		„ „ bolts and nuts and washers for	„	1	0	0	Cwt.	Square headed 6″ × ¾″, screwed, 2″ long.
3857	27-9-90		Bolts for switches	„	0	15	0	Set.	
4170	25-11-90		„ iron, locking, for points	„	0	4	9	„	
3857	27-9-90		Chairs, slide	„	0	3	0	Each.	
3284	25-2-90		„ „	„	0	3	6	„	
3857	27-9-90		Distance pieces or blocks	„	0	2	6	„	
3284	25-2-90		Gauge bars	„	0	3	6	„	

CLASS OF STORES D.—BALLAST AND PERMANENT-WAY—METRE GAUGE—*concld.*

Contracted for in 1890.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
				lbs.					
			Spare parts of—concld.						
3857	27-9-90	Switches or points—*concld.*	Levers, complete	41¼	0	3	6	Each.	Each consisting of one bell crank with 2 turned pins and split pins.
3857	27-9-90		Lever handles	,,	0	10	0	,,	Each consisting of one lever cast iron weight, and set screw.
3284	25-2-90		,, ,, ...	,,	0	18	6	,,	Without padlocks.
3284	25-2-90		Pins, locking	,,	0	2	6	,,	Ditto.
3857	27-9-90		Rails, stock, 18 feet	,,	1	5	6	,,	
3638	1-7-90		,, ,, ...	,,	1	5	0	,,	
3857	1-7-90		,, tongue, 12 feet	,,	1	0	0	,,	
3857	27-9-90		,, ,, ,, ...	,,	1	0	6	,,	
3284	25-2-90		,, ,, ,, right and left hand	,,	1	1	0	,,	