Public Works (1897) Department.

G.O., No. 254845

DATED 15 September 1897

[Despatch Abstract.]

Rate List, Class D.—Permanent-way materials for 1898.

Circular from the Director General of Railways forwarding the — Comptr & Officers of the P.W.D.

=

1/2/15 Feb 97

[P.W. 25. 5,000—30-11-96.]

Indexed. 1769

BACK PAPERS.

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

FURTHER PAPERS.

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

Public Works (1897) Department.

CURRENT No. 7753

B/Lii 1/- 2548 Wg 15 Sep 97.

From The Director General of Railways.

Order Communicated to Offices of the P. W. Dept.

Cir. No. 6

7/8/97

Dated 19.7.97

Received 4.8.97

Enclosures 1

Spare copies .

SUBJECT.

Rate list; class D- Permanent-way materials for 1896:

Forwarding a printed copy of ——.

Ch. S. for I
Supdg Surveyor
S.S. in Sperrings
C.S. Lt. H. Os
Gen Store

[P. W. 29. 1,000—22-4-97.]

O.L.S. 358 1918

BACK PAPERS.

No.	Date.
2189 w	29-7-96

FURTHER PAPERS.

No.	Date.

[*General Distribution.*]

Circular No. 6.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

THE MANAGER, NORTH WESTERN RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND RAILWAY.
THE MANAGER, EASTERN BENGAL STATE RAILWAY.
THE MANAGER, EAST COAST RAILWAY.
THE ENGINEER-IN-CHIEF, KOTRI-ROHRI RAILWAY.
THE ENGINEER-IN-CHIEF, MARI-ATTOCK RAILWAY.
THE ENGINEER-IN-CHIEF, BEZWADA-MADRAS RAILWAY.
THE ENGINEER-IN-CHIEF, RAE BARELI-BENARES RAILWAY.
THE ENGINEER-IN-CHIEF, GODAVERY BRIDGE WORKS.
THE ENGINEER-IN-CHIEF, HURDWAR-DEHRA RAILWAY SURVEY.
THE PORT STOREKEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Rate List, Class D.—Permanent-way materials for 1896.

Simla, the 19th July 1897.

SIR,

I HAVE the honour to forward herewith, for information and guidance, a printed statement showing rates, *free on board* in England, for class D, State railway stores, permanent-way materials, contracted for by the India Office in 1896.

2. The statement has been divided into two parts, the first part (pages 1 to 11) affords information regarding materials for 5′ 6″ gauge railways, and the second part (pages 12 to 16) furnishes similar information for metre and other narrow gauge railways.

3. A table shewing average sea-freight per ton for permanent-way materials landed in India during 1896 at the various ports is prefixed for information.

4. Statements showing the cost and carriage of different descriptions of permanent-way materials for one mile of track (single line) are attached as appendices A and B.

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

I have the honour to be,

SIR,

Your most obedient Servant,

F. R. UPCOTT,

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 1896.
3. Appendices A and B showing cost and carriage of different descriptions of permanent-way materials for one mile of track (single line).

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

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

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

Director General of Railways.

To

THE Secretary to the Government of Madras
Public Works Department.

G. C. Press, Simla.—No. 219 P. W. D.—24-7-97.—50.

Enclosure to Director General of Railways' Circular No. 6 of 1897.

RATE LIST.

CLASS D.

PERMANENT-WAY MATERIALS.

FOR 1896.

G. C. Press, Simla.—No. 219 P. W. D.—24-7-97.—50.

Class I
7753/97

Enclosure to Director General of Railways' Circular No. of 1897.

Table of average Sea-freight for Permanent-way Materials landed during 1896.

Details.	Average rate per ton.										Remarks.
	Karachi.		Bombay.		Coconada or Vizagapatam.		Calcutta.		Rangoon.		
	s.	*d.*	*s.*	*d.*	*s.*	*d.*	*s.*	*d.*	*s.*	*d.*	
Bolts, fish	18	3	22	6	22	0	17	6	23	6	Where rates have not been quoted, it should be understood that material was not imported during the year.
Crossings and switches	20	8	25	0	28	1	18	3	26	0	
Plates, bearing	17	7	...		...		...		...		
Plates, fish	20	4	20	0	21	1	18	4	21	3	
Rails	17	1	16	3	21	3	18	3	20	10	
Sleepers	20	5	*25	0	...		21	9	...		
Spikes, dog	16	2	...		21	11	20	0	21	0	

* Pine sleepers.

CLASS OF STORES D.—PERMANENT-WAY MATERIALS.

5′ 6″ Gauge.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
55/383 — 28-2-96		Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4″ foot.	75	14 12 6	Ton	North Western ...	Weight-30·65 oz.
56/10 — 3-3-96		Steel, 4¾″ underhead × 1″ diameter, with special nuts for new standard double-headed rails.	,,	14 14 0	,,	Eastern Bengal ...	Weight-30·7 oz.
57/509 — 29-4-96	Bolts, fish ...	Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4″ foot.	,,	14 7 6	,,	North Western ...	Weight-30·65 oz.
60/44 — 2-7-96		Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4″ foot.	,,	14 9 0	,,	Ditto ...	
63/176 — 19-10-96		Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4″ foot.	,,	14 17 6	,,	Rae Bareli-Benares and Oudh and Rohilkhand.	

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
63/176 — 19-10-96	Bolts, fish—*concld.*	Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4·2″ foot.	75	14 17 6	Ton	Bezvada-Madras ...	Weight-30·65 oz.
64/294 — 14-11-96		Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4·2″ foot.	„	14 17 6	„	Ditto ...	Weight-30·65 oz.
65/127 — 14-12-96		Steel, 4¾″ underhead × 1″ diameter, with special nuts for fish-plates for new standard double-headed rails.	„	15 7 6	„	Eastern Bengal ...	Weight-31·32 oz.
65/127 — 14-12-96		Steel, 4½″ underhead × 1″ diameter for new standard flat-footed rails with 4·2″ foot.	„	15 7 6	„	Ditto. ...	Weight-30·65 oz.
62/292 — 28-9-96	Chairs ...	Pressed steel, bridge, for new standard flat-flooted rails with 4″ foot.	75	11 0 0	Ton	North Western ...	Weight-17⅛ lbs.
65/27 — 4-12-96		Cast-iron (single) for new standard double-headed rails.	„	3 6 6	„	Eastern Bengal ...	Weight-38 lbs.
56/224 — 16-3-96	Crossings ...	Steel, built up, with chairs, bolts and nuts, complete, for rails, flat-footed new standard 4″ foot—					
		Angle 1 in 10	75	7 0 0	Set	Oudh and Rohilkhand.	
		„ 1 in 12		7 1 0	„		
58/402 — 19-5-96		Steel, built up, complete, for new standard flat-footed rails with 4″ foot—					
		Angle 1 in 8½	„	5 17 0	„	North Western.	
		„ 1 in 12		6 11 0	„		
62/119 — 9-9-96		Steel, built up, complete, for new standard flat-footed rails with 4″ foot—					
		Angle 1 in 8½	„	6 7 6	„	Ditto.	
		„ 1 in 12		7 1 6	„		
63/129 — 14-10-96		Steel, built up, complete, for new standard flat-footed rails 4″ foot—					
		Angle 1 in 6	„	6 6 0	„	Rai Bareli-Benares.	
		„ 1 in 8½		6 5 0	„		
		„ 1 in 12		6 19 0	„		

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			lbs.	£. s. d.			
64/338 19-11-96	Crossings—*concld.*	Steel, built up, complete, for new standard flat-footed rails with 4″ foot— Angle 1 in 12	75	7 1 0	Set	Mari-Attock.	
63/139 16-10-96		Steel, built up, complete, for new standard flat-footed rails 4·2″ foot— Angle 1 in 6	,,	5 19 6	,,		
		,, 1 in 8½	,,				
64/391 25-11-91		,, 1 in 12	,,	6 14 0	,,	Bezwada Madras.	With the crossing chairs straight.
		,, 1 in 12	,,	7 2 6	,,		
63/251 26-10-96		Steel, built up, complete, to suit double-headed rails— Angle 1 in 6	73	6 2 6	,,	Eastern Bengal.	
		,, 1 in 8½		5 19 6			
		,, 1 in 9½		6 2 6			
		,, 1 in 12		6 16 6			
59/81 10-6-96	Keys ...	Steel, 8¼″ long, for sleepers for old standard flat-footed rails 4″ foot.	75	11 17 6	Ton	Oudh and Rohilkhand.	
62/292 28-9-96		Steel, 10″ long, for pressed steel bridge chairs for new standard flat-footed rails 4″ foot.	,,	11 0 0	,,	North-Western ...	Weight-1½ lbs.
55/339 25-2-96	Plates, bearing ...	Wrought-iron, 7½″ × 7″ with four square holes for new standard flat-footed rails with 4″ foot.	75	8 9 0	Ton	North Western ...	
55/344 26-2-96		Wrought-iron, 7½″ × 7″ with four square holes for new standard flat-footed rails with 4″ foot.	,,	8 0 0	,,	Ditto ...	Weight-7½ lbs.
64/247 12-11-96		Wrought-iron, 7½″ × 7″ with four square holes for new standard flat-footed rails with 4″ foot.	,,	8 10 0	,,	Mari-Attock ...	
55/386 28-2-96	Plates, fish ...	Steel, four-holed, 1′ 9½″ long, for new standard flat-footed rails with 4″ foot.	75	5 15 0	Ton	North Western ...	One pair = 32 lbs.
56/11 3-3-96		Steel, four holed, 17″ long, for new standard double-headed rails.	,,	6 2 6	,,	Eastern Bengal ...	One pair = 34·5 lbs.
57/508 29-4-96		Steel, four-holed, 1′ 9½″ long, for new standard flat-footed rails with 4″ foot.	,,	5 18 6	,,	North Western ...	
60/45 2-7-96		Steel, four-holed, 1′ 9½″ long, for new standard flat-footed rails with 4″ foot.	,,	5 17 6	,,	Ditto ...	One pair = 32 lbs.
63/98 13-10-96		Steel, four-holed, 1′ 9½″ long, for new standard flat-footed rails with 4″ foot.	,,	5 17 6	,,	Rai Bareli-Benares ...	
63/103 13-10-96		Steel, four-holed, 1′ 9½″ for new standard flat-footed rails with 4·2″ foot.	,,	5 17 6	,,	Bezwada-Madras ...	One pair = 31½ lbs.
63/274 27-10-96		Steel, four-holed, 1′ 9½″ long for new standard flat-footed rails with 4″ foot.	,,	5 17 6	,,	Oudh and Rohilkhand	One pair = 32 lbs.
64/358 21-11-96		Steel, four-holed, 1′ 9½″ long for new standard flat-footed rails with 4·2″ foot.	,,	5 17 6	,,	Bezwada-Madras ...	One pair = 31½ lbs.
65/167 21-12-96		Steel, four-holed, 17″ long, for new standard double-headed rails.	,,	6 2 6	,,	Eastern Bengal ...	One pair = 34½ lbs.
		Steel, four-holed, 1′ 9½″ long for new standard flat-footed rails with 4·2″ foot.	,,	6 2 6	,,		One pair = 31½ lbs.

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ Gauge.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
55/387 — 29-2-96	Rails ...	Steel, new standard, flat-footed, with 4″ foot, in assorted lengths.	75	4 13 9	Ton	North Western.	
56/12 — 3-3-96		Steel, new standard, double-headed with 2 bolt holes at each end in lengths of 30′	,,	4 12 6	,,	Eastern Bengal.	
57/517 — 29-4-96		Steel, new standard, flat-footed, with 4″ foot, with 2 bolt holes at each end, in assorted lengths.	,,	4 8 6	,,	North Western.	
60/46 — 2-7-96		Steel, new standard, flat-footed with 4″ foot, with 2 bolt holes at each end, in assorted lengths.	,,	4 7 6	,,	Ditto.	
63/102 — 13-10-96		Steel, new standard, flat-footed, with 4·2″ foot, with 2 bolt holes at each end, in assorted lengths.	,,	4 7 6	,,	Bezwada-Madras.	
63/128 — 14-10-96		Steel, new standard, flat-footed, with 4″ foot, with 2 bolt holes at each end, in assorted lengths.	,,	4 7 6	,,	Rae Bareli-Benares.	
63/291 — 28-10-96		Steel, new standard, flat-footed, with 4″ foot, with 2 bolt holes at each end, in 30 feet lengths.	,,	4 7 6	,,	Oudh and Rohilkhand.	
64/358 — 21-11-96	Rails—*concld.* ...	Steel, new standard, flat-footed, with 4·2″ foot with 2 bolt holes at each end, in assorted lengths, and also in lengths, of 30 feet only.	75	4 7 6	,,	Bezwada-Madras.	
65/166 — 21-12-93		Steel, new standard, double-headed, with 2 bolt holes at each end, in lengths of 30 feet each.	,,	4 12 6	,,	Eastern Bengal.	
		Steel, new standard, flat-footed, with 4·2″ foot with 2 bolt holes at each end, in lengths of 30 feet each.	,,	4 12 6	,,	Eastern Bengal.	
		Spare parts of :—					
57/322 — 17-4-96		Locking bars with one crank, connecting rod and adjusting screw each for double headed rails.	73	4 18 6	Each	Eastern Bengal.	
56/115 — 9-3-96	Sleepers ...	Cast-iron, Denham Olphert's, complete with tie bars and fastenings for new standard double headed rails.					
		Plates, cast-iron		3 6 6			
		Jaws		3 6 6			
		Tie bars, wrought-iron		6 2 6			
		Keys	75	14 2 6	Ton	Eastern Bengal.	
		Cotters		14 2 6			
		Keys for curves		14 2 6			
		Cotters for curves		14 2 6			

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
				...		...	
56/116 9-3-96	Sleepers—*contd* ...	Cast-iron, Denham Olphart's, complete, with tie bars and fastenings for new standard double headed rails—	75	...			
		Plates, cast iron		3 2 0	Ton		
		Jaws		3 2 0	„		
		Cast-iron plate, Denham Olphert's, complete, with fastenings for double-headed rails—			„		
		Cast-iron plates		3 11 0	„		
		„ „ jaws		3 11 0	„		
65/100 12-12-96		Wrought-iron, tie bars	73	6 7 6	„		
		„ „ cotters					
		„ „ keys		14 10 0	„		
		„ „ cotters } for curves				Eastern Bengal.	
		„ „ keys } for curves					
65/227 28-12-96		Cast-iron plate, Denham Olphert's, complete, with fastenings for new standard double-headed rails—					
		Cast-iron plates		3 11 3	„		
		„ „ jaws		3 11 3	„		
		Wrought-iron, tie bars	75	6 8 0	„		
		„ „ keys					
		„ „ cotters					
		„ „ keys } for curves		14 10 0	„		
		„ „ cotters } for curves					
58/104 5-5-96	Sleepers—*concld.* ...	Cast-iron, pot sleepers, complete, with tie bars and fastenings for new standard flat-footed rails with 4″ foot (Indian Midland pattern)—					
		Cast-iron, pots		3 7 6	„		
		„ „ clips		5 4 0	„		
		Wrought-iron, cotters	75	14 2 6	„		
		„ „ gibs		14 2 6	„		
		„ „ keys		13 12 6	„		
		„ „ tie bars		6 2 6	„		
60/121 6-7-96		Cast-iron, pot sleepers, complete, with tie bars and fastenings, for new standard flat-footed rails, with 4″ foot (Indian Midland pattern)—				North Western.	
		Cast-iron pots		3 8 6	„		
		„ „ clips		5 7 6	„		
		Wrought-iron-cotters	75	14 5 0	„		
		„ „ gibs		14 5 0	„		
		„ „ keys		13 15 0	„		
		„ „ tie bars		6 5 0	„		
56/313 23-3-96		Creossted (Baltic) red pine 8′ 11″ × 10′ × 5″		0 3 3⅛	each		

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
55/382 — 28-2-96	Spikes, dog ...	Wrought-iron, 5″ long, underhead, and $\frac{5}{8}$″ square, for new standard flat-footed rails with 4″ foot.	75	11 7 6	Ton	North Western ...	
63/177 — 19-10-96		Wrought-iron, 5″ long, underhead, and $\frac{5}{8}$″ square, for new standard flat-footed rails with 4·2″ foot.	,,	11 12 6	,,	Bezwada-Madras ...	
63/177 — 19-10-96		Wrought-iron, 5″ long, underhead, and $\frac{5}{8}$″ square, for new standard flat-footed rails with 4″ foot.	,,	11 12 6	,,	Rae Bareily-Benares	To weigh $\frac{7}{10}$ lbs. each.
64/138 — 6-11-96		Wrought-iron, 5″ long, underhead, and $\frac{5}{8}$″ square, for new standard flat-footed rails with 4″ foot.	,,	11 12 6	,,	Mari-Attock ...	
64/294 — 14-11-96		Ditto ditto	,,	11 12 6	,,	Bezwada-Madras ...	
65/155 — 19-12-96		Ditto ditto ... with 4·2″ foot.	,,	11 15 0	,,	Eastern Bengal ...	
65/28 — 4-12-96		Wrought-iron, for chairs, single, cast-iron ...	,,	10 17 6	,,	Ditto ...	To weigh 16½ oz. each.

Contract number and date.	Articles.	Details.	Weight per yard of rails	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
	Switches or points (complete.)	*Complete with lever boxes to suit new standard flat-footed rails, with 4″ foot.*					
56/224 — 16-3-96		Single throw, with over throw lever, length of tongue 15 feet.	75	9 10 0	Set	Oudh and Rohilkhand.	
57/519 — 29-4-96		Single throw, with 12 feet tongue rails ...	,,	9 10 0	,,	North Western.	
58/402 — 19-5-96		,, ,, 12 ,, ...	,,	8 5 0	,,		
		,, ,, 15 ,, ...	,,	9 4 0	,,		
62/119 — 9-9-96		,, ,, 12 ,, ...	,,	8 15 0	,,		
		,, ,, 15 ,, ...	,,	9 15 6	,,		
63/129 — 14-10-96		With 15 feet tongue rails	,,	9 15 6	,,	Rai Bareli-Benares.	*With steel slide chairs.*
64/338 — 19-11-96		,, 12 ,, ,, ...	,,	8 18 0	,,		
		,, 15 ,, ,, ...	,,	9 15 6	,,	Main Attock.	
		For new standard flat-footed rails, with 4·2″ foot.					
63/139 — 16-10-96		With 15 feet tongue rails	,,	9 6 0	,,	Bezwada-Madras.	
		,, 12 ,, ...	,,	8 7 6	,,		
64/391 — 25-11-96		With 15 feet tongue rails and lever boxes ...	,,	10 1 0	,,	Bezwada-Madras.	
		Complete with lever boxes to suit double headed rails.					
63/251 — 26-10-96		With 15 feet tongue rails	73	9 5 6	,,	Eastern Bengal.	
		,, 12 ,, ,, ...		8 7 0	,,		
		,, 15 ,, ,, without lever handle		8 0 6	,,		
		,, 12 ,, ,, ,, ,,		7 2 0	,,		

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

METRE AND NARROW GAUGES.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railways.	Remarks.
			lbs.	£ s. d.			
56/117, 9-3-96	Bolts, fish ...	Steel, $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for new standard flat footed steel rails.	50 and 41¼	15 9 0	Ton	Burma	One bolt nut and washer = 15 ozs.
56/117, 9-3-96	Bolts, fish ...	Steel, $4'' \times \frac{3}{4}''$ screwed for a length of $2\frac{1}{2}''$ for special fish-plates with nuts, and washers, for steel rails.	50 and 41¼	15 9 0	,,	Burma	One bolt nut and washer = 16⅜ ozs.
58/76, 5-5-96	Bolts, fish ...	Steel, $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for 18 feet new standard rails.	50	15 2 6	,,	Burma	One bolt nut and washer = 15 ozs.
60/169, 10-7-96	Bolts, fish ...	Steel, $3\frac{3}{4}'' \times \frac{3}{4}''$ with nuts, and washers, for new standard flat-footed rails.	50	15 7 6	,,	Mandalay-Kunlon ...	One bolt nut and washer = 15·75 ozs.
61/89, 8-8-96	Bolts, fish ...	Steel, $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for new standard rails.	50 and 41¼	15 19 0	,,	Burma ...	One bolt nut and washer = 15 ozs.
61/89, 8-8-96	Bolts, fish ...	Steel, $4'' \times \frac{3}{4}''$ screwed for a length of $2\frac{1}{2}''$ for special fish-plates with nuts, and washers, for new standard steel rails.	50 and 41¼	15 19 0	,,	Burma ...	One bolt nut and washer = 16⅜ ozs.
63/100, 13-10-96	Bolts, fish ...	Steel $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for new standard flat-footed rails.	50	15 17 6	,,	Eastern Bengal ..	One bolt nut and washer = 15 ozs.
64/205, 10-11-96	Bolts, fish ...	Steel, $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for flat-footed rails.	41¼	15 17 6	,,	Mu Valley Mogoung Extension ...	One bolt nut and washer = 15 ozs.
64/332, 19-11-96	Bolts, fish—*concld.*	Steel, $\frac{5}{8}''$ diameter, with nuts, and washers, for flat-footed rails.	25	*23-17-6	Ton.	Umaria-Colliery ...	*Special, only 6½ cwt., indented for.
56/224, 16-3-96	Crossings ...	Steel, built up, complete, for flat-footed steel rails— Angle, 1 in 8½	41¼	4 12 6	Set	Burma.	
		„ 1 in 12	41¼	4 12 6	Set	Burma.	
60/226, 15-7-96	Crossings ...	Steel, built up, for new standard rails, flat-footed— Angle, 1 in 8½	50	5 1 3	,,	Mandalay Kunlon.	
		„ 1 in 6	50	5 13 3	,,	Mandalay Kunlon.	
64/393, 26-11-96	Crossings ...	Steel, built up, complete, for new standard flat-footed steel, rails— Angle, 1 in 8½	41¼	4 17 0		Mu Valley. (Mogoung Extension.)	
		„ 1 in 12	41¼	4 17 0		Mu Valley. (Mogoung Extension.)	
64/412, 30-11-96	Crossings ...	Angle 1 in 6	25	*For cost see page 16 included in Switches and points.*		Umaria Colliery. ...	For sidings 1′ 6″ gauge.
56/117, 9-3-96	Plates, fish ...	Steel, special, for new standard flat-footed steel rails.	50 and 41¼	1 8 0	Set	Burma.	
57/540, 30-4-96	Plates, fish ...	Steel, 18″ long for new standard rails, deep web pattern.	50	6 10 6	Ton	Burma ...	Weight of one pair of fish-plates=28 lbs.

CLASS OF STORES D.—PERMANENT-WAY MATERIALS.—*contd.*

METRE AND NARROW GAUGES.

Contracted for in 1896.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railways.	Remarks.
				lbs.	£ s. d.			
60/278	1-7-95	Plates, fish—*concld.*	Steel, flexible, for new standard flat-footed rails	50	8 10 0	Ton	Mandalay-Kunlon ...	One pair of fish plates = 17¾ lbs.
61/89	8-8-96		Steel, special, 1″ thick, for new standard flat-footed rails.	50 and 41¼	1 10 0	Set	Burma ...	One set of 4 = 34·625 lbs.
63/125	14-10-96		Steel, 18″ long for new standard flat-footed rails	50	6 12 6	Ton	Eastern Bengal	One pair of fish plates = 28 lbs.
64/184	10-11-96		Steel, 14·17″ long for flat-footed rails ...	41¼	7 12 6	,,	Mu Valley (Mogoung Extension.)	One pair of fish plates = 9 lbs. 2 oz.
64/331	19-11-96.		Steel, half the quantity with holes ¾″ diameter and half with ¾″ square holes for flat-footed pit rails	25	8 8 6	,,	Umaria Colliery.	For siding 1′ 6″ gauge.
57/541	30-4-96	Rails ...	Steel, new standard, flat-footed, in assorted lengths of 30, 27 and 24 feet.	50	4 7 6	Ton	Mandalay-Kunlon and Burma.	
63/124	14-10-96		Steel, new standard, flat-footed in lengths of 40 feet each.	50	4 12 6	,,	Eastern Bengal.	
64/331	19-11-96		Steel, pit, flat-footed in lengths of 24 feet ...	25	5 8 6	,,	Umaria Colliery ...	For siding 1′ 6″ gauge.
56/117	9-3-96	Spikes, dog ...	Wrought-iron, 4″ under head for flat-footed rails.	50 & 41¼	11 19 0	,,	Burma	100 spikes = 53 lbs.
58/29	1-5-96		Wrought-iron, 4¾″ long, for new standard flat-flooted rails.	50	11 7 6	,,	Mandalay-Kunlon and Burma.	
64/183	10-11-96		Wrought-iron, 4½″ long for flat-flooted rails ...	41¼	12 7 6	,,	Mu Valley-(Mogoung Extension.)	
64/332	19-11-96		Wrought-iron, 4″ × $\frac{7}{16}$″ long for flat-flooted rails.	25	4 17 6	,,	Umaria Colliery ...	*For sidings 1′ 6″ gauge, 100 spikes = 21·875 lbs.*
			For new standard flat-footed rails—					
56/224	16-3-96	Switches (or points complete) ...	Single throw, with lever boxes, complete, 12 feet tongue.	41¼	6 10 6	Set	Burma.	
			Single throw, with lever boxes, complete, 9 feet tongue.		6 2 6	,,		
60/226	15-7-96		With lever boxes, with 12 feet tongue rails, forged steel slide chairs.	50	7 4 6	,,	Mandalay-Kunlon.	
64/393	26-11-96		Single throw, with lever boxes, with 12 feet tongue, on solid forged steel slide chairs.	41¼	7 1 0	,,	Mu Valley (Mogoung Extension.)	

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*concld.*

METRE AND NARROW GAUGES.

Contracted for in 1896.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
				lbs.	£ s. d.			
64/412	30-11-96	(Switches (or points complete)—*concld.*	Left hand points, open and close ...	25	*43 10 0	For 6 pairs left hand, 6 pairs right hand and 12 crossings.	Umaria Colliery ...	For sidings 1′ 6″ gauge.
			Right hand points, open and close ...					
61/3	5-8-96	Turn plates ...	Pit, for sidings 1′ 6″ gauge	25	2 2 0	each	Ditto.	

Appendix A to the Rate List for Class D Stores for 1896.

Statement showing the cost of permanent-way material for one mile of line (single track).

Description of Permanent-way.	Quantity to be delivered per mile of single track.	With flat-footed steel rails on transverse steel sleepers. Charges incurred in England. Cost free on board at port in England. Per ton of material.	Per mile of single track.	Average sea freight calculated at 20s 6d. per ton.	Insurance at one-half per cent. on prime cost *plus* sea freight.	Total English charges.	Indian charges. English charges converted to Indian currency at s. d. 1 2¼=1 Re.	Landing charges in India at Rs. 2 per ton.	Total cost delivered at port in India.	Remarks.
5′ 6″ Gauge.	Tons.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	Rs.	Rs.	Rs.	
Rails, steel, 75 lbs. per yard, with four-holed fish-plates (new Indian State railway standard)—	117·86	4 9 0	524 9 6	120 16 1	3 4 6	648 10 1	10,734	236	10,970	
Fish-plates	5·34	5 17 2	31 5 8	5 9 6	0 3 8	36 18 10	611	11	622	
Fish-bolts with nuts and washers	1·33	14 11 8	19 7 11	1 7 4	0 2 1	20 17 4	345	3	348	
Sleepers, steel, transverse, with keys and distance pieces...	124·86	5 1 9*	635 4 6	127 19 7	3 16 4	767 0 5	12,696	250	12,946	* These are rates for 1894. None have been received since.
Sleepers, pot, C. I., and fastenings, Indian Midland Railway pattern	215·00	3 19 8	856 8 3	220 7 6	5 7 8	1,082 3 5	17,912	430	18,342	
Total with transverse sleepers with fastenings ...	**249·39**	.....	**1,210 7 7**	**255 12 6**	**7 6 7**	**1,473 6 0**	**24,386**	**500**	**24,886**	
Total with c. i. pot sleepers and fastenings Indian Midland Railway pattern	**339·53**	.....	**1,431 11 6**	**348 0 5**	**8 17 11**	**1,788 9 8**	**29,602**	**680**	**30,282**	
Rails, steel, 75 lbs. per yard (East Coast railway pattern)— ...	117·86	4 9 2	525 9 2	120 16 2	3 4 8	649 10 0	10,750	236	10,986	
Fish-plates	4·59	5 19 2	27 6 11	4 14 1	0 3 2	32 4 2	533	9	542	
Fish-bolts, with nuts and washers	1·66	15 0 10	24 19 5	1 14 0	0 2 8	26 16 1	444	3	447	
Sleepers, steel, transverse, with keys	122·94	5 0 0*	614 14 0	126 0 3	3 14 1	744 8 4	12,321	246	12,567	
Total with transverse sleepers with fastenings ...	**247·05**	.....	**1,192 9 6**	**253 4 6**	**7 4 7**	**1,452 18 7**	**24,048**	**494**	**24,542**	
Metre Gauge.										
Rails, steels, 50 lbs. per yard (State railway pattern)— ...	78·57	4 10 0	353 11 3	80 10 8	2 8 5	436 10 4	7,225	157	7,382	
Fish-plates	4·67	7 4 4	33 14 1	4 15 9	0 3 10	38 13 8	640	9	649	
Fish-bolts, with nuts and washers	0·65	15 13 3	10 3 7	0 13 4	0 1 1	10 18 0	180	2	182	
Sleepers, steel, transverse, with keys	68·15	5 10 0†	374 16 6	69 17 1	2 4 6	446 18 1	7,397	136	7,533	† These are rates for 1893. None have been received since.
Total with transverse sleepers and fastenings ...	**152·04**	.....	**772 5 5**	**155 16 10**	**4 17 10**	**933 0 1**	**15,442**	**304**	**15,746**	
Rails, steel, 41¼ lbs. per yard (State railway pattern)— ...	64·82	3 10 6*	228 9 10	66 8 9	1 9 6	296 8 1	4,906	130	5,036	
Fish-plates	1·52	7 12 6	11 11 10	1 11 2	0 1 4	13 4 4	219	3	222	
Fish-bolts, with nuts and washers	0·65	15 15 2	10 4 10	0 13 4	0 1 1	10 19 3	181	1	182	
Sleepers, steel, transverse, with keys	62·79	5 10 0†	345 6 11	64 7 2	2 0 11	411 15 0	6,815	126	6,941	
Total with transverse sleepers and fastenings ...	**129·78**	.....	**595 13 5**	**133 0 5**	**3 12 10**	**732 6 8**	**12,121**	**260**	**12,381**	

Appendix B to the Rate List for Class D Stores for 1896.

Statement showing the carriage of one mile of Permanent-way material complete for one hundred miles of distance.

TYPE OF PERMANENT-WAY (ENGLISH MATERIAL).	Weight for one mile of single track.	STATE RAILWAYS AND EAST INDIAN RAILWAY.		Great Indian Peninsula Railway @ 4·08 pies per ton per mile.	Bombay, Baroda and Central India Railway @ 4·08 pies per ton per mile.	Rajputana-Malwa Railway @ 4·08 pies per ton per mile.	REMARKS.
		For first 400 miles 4·08 pies per ton per mile.	For distance in excess of 400 miles @ 2·72 pies per ton per mile.				
	Tons.	Rs.	Rs.	Rs.	Rs.	Rs.	
New Indian State Railway standard 75 lbs. with 4″ foot (5′ 6″ gauge).	249·39	529·9	353·3	529·9	529·9	529·9	
East Coast Railway Pattern 75 lbs. with 4·2″ foot (5′ 6″ gauge) ...	247·05	524·9	349·9	524·9	524·9	524·9	
Indian State Railway Pattern 50 lbs. (metre gauge) ...	152·04	323·1	215·4	323·1	323·1	323·1	
Indian State Railway Pattern 41½ lbs. (metre gauge) ...	129·78	275·8	183·9	275·8	275·8	275·8	

N.B.—Terminal charges are not included in the mileage rates for carriage, as it is understood that the material is loaded and unloaded by the owners.

The rates given here for the Great Indian Peninsula Railway are applicable up to 400 miles of distance only.

Consignments of 190 maunds and over are carried at the following special rates over the Bombay, Baroda and Central India Railway and Rajputana-Malwa Railway.

From	1 to 100 miles ...	...	0·35 pies
„	101 to 200 „ ...	...	0·25 „
„	201 to 400 „ ...	...	0·15 „
over	400 „ ...	...	0·10 „

per maund per mile, excluding terminals.

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, the Punjab, and Burma, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, and Assam, Public Works Department.
The Secretaries to the Resident at Hyderabad and in 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 Chief Engineer, Kashmir.
The Accountant General, Bengal.
The Consulting Engineers for Railways, Madras, Bombay and Burma.
The Consulting Engineers to the Government of India for Railways, Calcutta, Lucknow, and Assam.

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

F. R. UPCOTT,
Director General of Railways.

To

THE

No 2548 W/3 15 Jan 09

Communicated to officers of the P. W. Department.
(Sd) D. McN. P.
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Exr. P.W. Accts.

G C. Press, Simla.—No. 219 P. W D.—20-8-97.—846.

[*General Distribution.*]

Circular No. 6.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

THE MANAGER, NORTH WESTERN RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND RAILWAY.
THE MANAGER, EASTERN BENGAL STATE RAILWAY.
THE MANAGER, EAST COAST RAILWAY.
THE ENGINEER-IN-CHIEF, KOTRI-ROHRI RAILWAY.
THE ENGINEER-IN-CHIEF, MARI-ATTOCK RAILWAY.
THE ENGINEER-IN-CHIEF, BEZWADA-MADRAS RAILWAY.
THE ENGINEER-IN-CHIEF, RAE BARELI-BENARES RAILWAY.
THE ENGINEER-IN-CHIEF, GODAVERY BRIDGE WORKS.
THE ENGINEER-IN-CHIEF, HURDWAR-DEHRA RAILWAY SURVEY.
THE PORT STOREKEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Rate List, Class D.—Permanent-way materials for 1896.

Simla, the 19th July 1897.

SIR,

I HAVE the honour to forward herewith, for information and guidance, a printed statement showing rates, *free on board* in England, for class D, State railway stores, permanent-way materials, contracted for by the India Office in 1896.

2. The statement has been divided into two parts, the first part (pages 1 to 11) affords information regarding materials for 5′ 6″ gauge railways, and the second part (pages 12 to 16) furnishes similar information for metre and other narrow gauge railways.

3. A table shewing average sea-freight per ton for permanent-way materials landed in India during 1896 at the various ports is prefixed for information.

4. Statements showing the cost and carriage of different descriptions of permanent-way materials for one mile of track (single line) are attached as appendices A and B.

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

I have the honour to be,

SIR,

Your most obedient Servant,

F. R. UPCOTT,
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 1896.
3. Appendices A and B showing cost and carriage of different descriptions of permanent-way materials for one mile of track (single line).

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

Enclosure to Director General of Railways' Circular No. 6 of 1897.

RATE LIST.

CLASS D.

PERMANENT-WAY MATERIALS.

FOR 1896.

G. C. Press, Simla.—No. 219 P. W. D.—21-8-97.—841.

Enclosure to Director General of Railways' Circular No. 6 of 1897.

Table of average Sea-freight for Permanent-way Materials landed during 1896.

Details.	Average rate per ton.										Remarks.
	Karachi.		Bombay.		Coconada or Vizagapatam.		Calcutta.		Rangoon.		
	s.	*d.*	*s.*	*d.*	*s.*	*d.*	*s.*	*d.*	*s.*	*d.*	
Bolts, fish	18	3	22	6	22	0	17	6	23	6	Where rates have not been quoted, it should be understood that material was not imported during the year.
Crossings and switches	20	8	25	0	28	1	18	3	26	0	
Plates, bearing	17	7	...		...		...		...		
Plates, fish	20	4	20	0	21	1	18	4	21	3	
Rails	17	1	16	3	21	3	18	3	20	10	
Sleepers	20	5	*25	0	...		21	9	...		
Spikes, dog	16	2	...		21	11	20	0	21	0	

* Pine sleepers.

CLASS OF STORES D.—PERMANENT-WAY MATERIALS.

5′ 6″ Gauge.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
55/383 — 28-2-96	Bolts, fish ...	Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4″ foot.	75	14 12 6	Ton	North Western ...	Weight-30·65 oz.
56/10 — 3-3-96		Steel, 4¾″ underhead × 1″ diameter, with special nuts for new standard double-headed rails.	,,	14 14 0	,,	Eastern Bengal ...	Weight-30·7 oz.
57/509 — 29-4-96		Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4″ foot.	,,	14 7 6	,,	North Western ...	Weight-30·65 oz.
60/44 — 2-7-96		Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4″ foot.	,,	14 9 0	,,	Ditto ...	
63/176 — 19-10-96		Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4″ foot.	,,	14 17 6	,,	Rae Bareli-Benares and Oudh and Rohilkhand.	

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
63/176 — 19-10-96	Bolts, fish—*concld.*	Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4·2″ foot.	75	14 17 6	Ton	Bezvada-Madras ...	Weight-30·65 oz.
64/294 — 14-11-96		Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4·2″ foot.	,,	14 17 6	,,	Ditto ...	Weight-30·65 oz.
65/127 — 14-12-96		Steel, 4¾″ underhead × 1″ diameter, with special nuts for fish-plates for new standard double-headed rails.	,,	15 7 6	,,	Eastern Bengal ...	Weight-31·32 oz.
65/127 — 14-12-96		Steel, 4½″ underhead × 1″ diameter for new standard flat-footed rails with 4·2″ foot.	,,	15 7 6	,,	Ditto. ...	Weight-30·65 oz.
62/292 — 28-9-96	Chairs ...	Pressed steel, bridge, for new standard flat-footed rails with 4″ foot.	75	11 0 0	Ton	North Western ...	Weight-17⅛ lbs.
65/27 — 4-12-96		Cast-iron (single) for new standard double-headed rails.	,,	3 6 6	,,	Eastern Bengal ...	Weight-38 lbs.
56/224 — 16-3-96	Crossings ...	Steel, built up, with chairs, bolts and nuts, complete, for rails, flat-footed new standard 4″ foot—					
		Angle 1 in 10	75	7 0 0	Set	Oudh and Rohilkhand.	
		,, 1 in 12		7 1 0	,,		
58/402 — 19-5-96		Steel, built up, complete, for new standard flat-footed rails with 4″ foot—					
		Angle 1 in 8½	,,	5 17 0	,,	North Western.	
		,, 1 in 12		6 11 0	,,		
62/119 — 9-9-96		Steel, built up, complete, for new standard flat-footed rails with 4″ foot—					
		Angle 1 in 8½	,,	6 7 6	,,	Ditto.	
		,, 1 in 12		7 1 6	,,		
63/129 — 14-10-96		Steel, built up, complete, for new standard flat-footed rails 4″ foot—					
		Angle 1 in 6	,,	6 6 0	,,	Rai Bareli-Benares.	
		,, 1 in 8½		6 5 0	,,		
		,, 1 in 12		6 19 0	,,		

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			lbs.	£. s. d.			
64/338 — 19-11-96	Crossings—*concld.*	Steel, built up, complete, for new standard flat-footed rails with 4″ foot— Angle 1 in 12	75	7 1 0	Set	Mari-Attock.	
		Steel, built up, complete, for new standard flat-footed rails 4·2″ foot— Angle 1 in 6	,,	5 19 6	,,	Bezwada-Madras.	With the crossing chairs straight.
63/139 — 16-10-96		,, 1 in 8½	,,				
		,, 1 in 12	,,	6 14 0	,,		
64/391 — 25-11-96		,, 1 in 12	,,	7 2 6	,,		
63/251 — 26-10-96		Steel, built up, complete, to suit double-headed rails— Angle 1 in 6	73	6 2 6	,,	Eastern Bengal.	
		,, 1 in 8½		5 19 6			
		,, 1 in 9½		6 2 6			
		,, 1 in 12		6 16 6			
59/81 — 10-6-96	Keys ...	Steel, 8¼″ long, for sleepers for old standard flat-footed rails 4″ foot.	75	11 17 6	Ton	Oudh and Rohilkhand.	
62/292 — 28-9-96		Steel, 10″ long, for pressed steel bridge chairs for new standard flat-footed rails 4″ foot.	,,	11 0 0	,,	North-Western ...	Weight-1½ lbs.
55/339 — 25-2-96	Plates, bearing ...	Wrought-iron, 7½″ × 7″ with four square holes for new standard flat-footed rails with 4″ foot.	75	8 9 0	Ton	North Western ...	
55/344 — 26-2-96		Wrought-iron, 7½″ × 7″ with four square holes for new standard flat-footed rails with 4″ foot.	,,	8 0 0	,,	Ditto ...	Weight-7½ lbs.
64/247 — 12-11-96		Wrought-iron, 7½″ × 7″ with four square holes for new standard flat-footed rails with 4″ foot.	,,	8 10 0	,,	Mari-Attock ...	
55/386 — 28-2-96	Plates, fish ...	Steel, four-holed, 1′ 9½″ long, for new standard flat-footed rails with 4″ foot.	75	5 15 0	Ton	North Western ...	One pair = 32 lbs.
56/11 — 3-3-96		Steel, four holed, 17″ long, for new standard double-headed rails.	,,	6 2 6	,,	Eastern Bengal ...	One pair = 34·5 lbs.
57/508 — 29-4-96		Steel, four-holed, 1′ 9½″ long, for new standard flat-footed rails with 4″ foot.	,,	5 18 6	,,	North Western ...	
60/45 — 2-7-96		Steel, four-holed, 1′ 9½″ long, for new standard flat-footed rails with 4″ foot.	,,	5 17 6	,,	Ditto ...	One pair = 32 lbs.
63/98 — 13-10-96		Steel, four-holed, 1′ 9½″ long, for new standard flat-footed rails with 4″ foot.	,,	5 17 6	,,	Rai Bareli-Benares ...	
63/103 — 13-10-96		Steel, four-holed, 1′ 9½″ for new standard flat-footed rails with 4·2″ foot.	,,	5 17 6	,,	Bezwada-Madras ...	One pair = 31½ lbs.
63/274 — 27-10-96		Steel, four-holed, 1′ 9½″ long for new standard flat-footed rails with 4″ foot.	,,	5 17 6	,,	Oudh and Rohilkhand	One pair = 32 lbs.
64/358 — 21-11-96		Steel, four-holed, 1′ 9½″ long for new standard flat-footed rails with 4·2″ foot.	,,	5 17 6	,,	Bezwada-Madras ...	One pair = 31½ lbs.
65/167 — 21-12-96		Steel, four-holed, 17″ long, for new standard double-headed rails.	,,	6 2 6	,,	Eastern Bengal ...	One pair = 34½ lbs.
		Steel, four-holed, 1′ 9½″ long for new standard flat-footed rails with 4·2″ foot.	,,	6 2 6	,,		One pair = 31½ lbs.

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ Gauge.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
55/387 — 29-2-96	Rails ...	Steel, new standard, flat-footed, with 4″ foot, in assorted lengths.	75	4 13 9	Ton	North Western.	
56/12 — 3-3-96		Steel, new standard, double-headed with 2 bolt holes at each end, in lengths of 30′	,,	4 12 6	,,	Eastern Bengal.	
57/517 — 29-4-96		Steel, new standard, flat-footed, with 4″ foot, with 2 bolt holes at each end, in assorted lengths.	,,	4 8 6	,,	North Western.	
60/46 — 2-7-96		Steel, new standard, flat-footed with 4″ foot, with 2 bolt holes at each end, in assorted lengths.	,,	4 7 6	,,	Ditto.	
63/102 — 13-10-96		Steel, new standard, flat-footed, with 4·2″ foot, with 2 bolt holes at each end, in assorted lengths.	,,	4 7 6	,,	Bezwada-Madras.	
63/128 — 14-10-96		Steel, new standard, flat-footed, with 4″ foot, with 2 bolt holes at each end, in assorted lengths.	,,	4 7 6	,,	Rae Bareli-Benares.	
63/291 — 28-10-96		Steel, new standard, flat-footed, with 4″ foot, with 2 bolt holes at each end, in 30 feet lengths.	,,	4 7 6	,,	Oudh and Rohilkhand.	
64/358 — 21-11-96	Rails—*concld.* ...	Steel, new standard, flat-footed, with 4·2″ foot with 2 bolt holes at each end, in assorted lengths, and also in lengths of 30 feet only.	75	4 7 6	,,	Bezwada-Madras.	
65/166 — 21-12-96		Steel, new standard, double-headed, with 2 bolt holes at each end, in lengths of 30 feet each.	,,	4 12 6	,,	Eastern Bengal.	
		Steel, new standard, flat-footed, with 4·2″ foot with 2 bolt holes at each end, in lengths of 30 feet each.	,,	4 12 6	,,	Eastern Bengal.	
		Spare parts of :—					
57/322 — 17-4-96		Locking bars with one crank, connecting rod and adjusting screw each for double headed rails.	73	4 18 6	Each	Eastern Bengal.	
56/115 — 9-8-96	Sleepers ...	Cast-iron, Denham Olphert's, complete with tie bars and fastenings for new standard double headed rails.					
		Plates, cast-iron		3 6 6			
		Jaws		3 6 6			
		Tie bars, wrought-iron		6 2 6			
		Keys	75	14 2 6	Ton	Eastern Bengal.	
		Cotters		14 2 6			
		Keys for curves		14 2 6			
		Cotters for curves		14 2 6			

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
56/116 9-3-96	Sleepers—*contd* ...	Cast-iron, Denham Olphart's, complete, with tie bars and fastenings for new standard double headed rails—	75	...		...	
		Plates, cast iron		3 2 0	Ton		
		Jaws		3 2 0	,,		
65/100 12-12-96		Cast-iron plate, Denham Olphert's, complete, with fastenings for double-headed rails—	73				
		Cast-iron plates		3 11 0	,,		
		,, ,, jaws		3 11 0	,,		
		Wrought-iron, tie bars		6 7 6	,,		
		,, ,, cotters					
		,, ,, keys		14 10 0	,,		
		,, ,, cotters } for curves				Eastern Bengal.	
		,, ,, keys } for curves					
65/227 28-12-96		Cast-iron plate, Denham Olphert's, complete, with fastenings for new standard double-headed rails—	75				
		Cast-iron plates		3 11 3	,,		
		,, ,, jaws		3 11 3	,,		
		Wrought-iron, tie bars		6 8 0	,,		
		,, ,, keys					
		,, ,, cotters					
		,, ,, keys } for curves		14 10 0	,,		
		,, ,, cotters } for curves					
58/104 5-5-96	Sleepers—*concld.* ...	Cast-iron, pot sleepers, complete, with tie bars and fastenings for new standard flat-footed rails with 4″ foot (Indian Midland pattern)—	75				
		Cast-iron, pots		3 7 6	,,		
		,, ,, clips		5 4 0	,,		
		Wrought-iron, cotters		14 2 6	,,		
		,, ,, gibs		14 2 6	,,		
		,, ,, keys		13 12 6	,,		
		,, ,, tie bars		6 2 6	,,		
60/121 6-7-96		Cast-iron, pot sleepers, complete, with tie bars and fastenings, for new standard flat-footed rails, with 4″ foot (Indian Midland pattern)—	75			North Western.	
		Cast-iron pots		3 8 6	,,		
		,, ,, clips		5 7 6	,,		
		Wrought-iron-cotters		14 5 0	,,		
		,, ,, gibs		14 5 0	,,		
		,, ,, keys		13 15 0	,,		
		,, ,, tie bars		6 5 0	,,		
56/313 23-3-96		Creosoted (Baltic) red pine 8′ 11″ × 10′ × 5″		0 3 3⅛	each		

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
55/382 — 28-2-96	Spikes, dog ...	Wrought-iron, 5″ long, underhead, and $\frac{25}{32}$″ square, for new standard flat-footed rails with 4″ foot.	75	11 7 6	Ton	North Western ...	
63/177 — 19-10-96		Wrought-iron, 5″ long, underhead, and $\frac{25}{32}$″ square, for new standard flat-footed rails with 4·2″ foot.	,,	11 12 6	,,	Bezwada-Madras ...	
63/177 — 19-10-96		Wrought-iron, 5″ long, underhead, and $\frac{5}{8}$″ square, for new standard flat-footed rails with 4″ foot.	,,	11 12 6	,,	Rae Bareily-Benares	To weigh $\frac{7}{10}$ lbs. each.
64/138 — 6-11-96		Wrought-iron, 5″ long, underhead, and $\frac{5}{8}$″ square, for new standard flat-footed rails with 4″ foot.	,,	11 12 6	,,	Mari-Attock ...	
64/294 — 14-11-96		Ditto ditto	,,	11 12 6	,,	Bezwada-Madras ...	
65/155 — 19-12-96		Ditto ditto ... with 4·2″ foot.	,,	11 15 0	,,	Eastern Bengal ...	
65/28 — 4-12-96		Wrought-iron, for chairs, single, cast-iron ...	,,	10 17 6	,,	Ditto ...	To weigh 16½ oz. each.
	Switches or points (complete.)	*Complete with lever boxes to suit new standard flat-footed rails, with 4″ foot.*					
56/224 — 16-3-96		Single throw, with over throw lever, length of tongue 15 feet.	75	9 10 0	Set	Oudh and Rohilkhand.	
57/519 — 29-4-96		Single throw, with 12 feet tongue rails ...	,,	9 10 0	,,	North Western.	
58/402 — 19-5-96		,, ,, 12 ,, ...	,,	8 5 0	,,		
		,, ,, 15 ,, ...	,,	9 4 0	,,		
62/119 — 9-9-96		,, ,, 12 ,, ...	,,	8 15 0	,,		
		,, ,, 15 ,, ...	,,	9 15 6	,,		
63/129 — 14-10-96		With 15 feet tongue rails	,,	9 15 6	,,	Rai Bareli-Benares.	*With steel slide chairs.*
		,, 12 ,, ,, ...	,,	8 18 0	,,		
64/338 — 19-11-96		,, 15 ,, ,, ...	,,	9 15 6	,,	Main Attock.	
		For new standard flat-footed rails, with 4·2″ foot.					
63/139 — 16-10-96		With 15 feet tongue rails	,,	9 6 0	,,	Bezwada-Madras.	
		,, 12 ,, ...	,,	8 7 6	,,		
64/391 — 25-11-96		With 15 feet tongue rails and lever boxes ...	,,	10 1 0	,,	Bezwada-Madras.	
		Complete with lever boxes to suit double headed rails.					
63/251 — 26-10-96		With 15 feet tongue rails	73	9 5 6	,,	Eastern Bengal.	
		,, 12 ,, ,, ...		8 7 0	,,		
		,, 15 ,, ,, without lever handle		8 0 6	,,		
		,, 12 ,, ,, ,, ,,		7 2 0	,,		

METRE AND NARROW GAUGES.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
56/117 9-3-96	Bolts, fish ...	Steel, $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for new standard flat-footed steel rails.	50 and $41\frac{1}{4}$	15 9 0	Ton	Burma	One bolt nut and washer = 15 oz.
		Steel, $4'' \times \frac{3}{4}''$ screwed for a length of $2\frac{1}{2}''$ for special fish-plates with nuts, and washers, for steel rails.		15 9 0	,,		One bolt nut and washer = $16\frac{3}{8}$ oz.
58/76 5-5-96		Steel, $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for 18 feet new standard rails.	50	15 2 6	,,		One bolt nut and washer = 15 oz.
60/169 10-7-96		Steel, $3\frac{3}{4}'' \times \frac{3}{4}''$ with nuts, and washers, for new standard flat-footed rails.	50	15 7 6	,,	Mandalay-Kunlon ...	One bolt nut and washer = 15·75 oz.
61/89 8-8-96		Steel, $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for new standard rails.	50 and $41\frac{1}{4}$	15 19 0	,,	Burma ...	One bolt nut and washer = 15 oz.
		Steel, $4'' \times \frac{3}{4}''$ screwed for a length of $2\frac{1}{2}''$ for special fish-plates with nuts, and washers, for new standard steel rails.		15 19 0	,,		One bolt nut and washer = $16\frac{3}{8}$ oz.
63/100 13-10-96		Steel $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for new standard flat-footed rails.	50	15 17 6	,,	Eastern Bengal ...	One bolt nut and washer = 15 oz.
64/205 10-11-96		Steel, $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for flat-footed rails.	$41\frac{1}{4}$	15 17 6	,,	Mu Valley Mogoung Extension ...	One bolt nut and washer = 15 oz.
64/332 19-11-96	Bolts, fish—*concld.*	Steel, $\frac{5}{8}''$ diameter, with nuts, and washers, for flat-footed rails.	25	*23-17-6	Ton.	Umaria-Colliery ...	*Special, only $6\frac{1}{2}$ cwt., indented for.
56/224 16-3-96	Crossings ...	Steel, built up, complete, for flat-footed steel rails— Angle, 1 in $8\frac{1}{2}$	$41\frac{1}{4}$	4 12 6	Set	Burma.	
		,, 1 in 12					
60/226 15-7-96		Steel, built up, for new standard rails, flat-footed— Angle, 1 in $8\frac{1}{2}$	50	5 1 3	,,	Mandalay-Kunlon.	
		,, 1 in 6		5 13 3	,,		
64/393 26-11-96		Steel, built up, complete, for new standard flat-footed steel, rails— Angle, 1 in $8\frac{1}{2}$	$41\frac{1}{4}$	4 17 0		Mu Valley. (Mogoung Extension.)	
		,, 1 in 12					
64/412 30-11-96		,, 1 in 6	25	*For cost see page 16 included in Switches and points.*		Umaria Colliery. ...	For sidings 1′ 6″ gauge.
56/117 9-3-96	Plates, fish ...	Steel, special, for new standard flat-footed steel rails.	50 and $41\frac{1}{4}$	1 8 0	Set	Burma.	
57/540 30-4-96		Steel, 18″ long for new standard rails, deep web pattern.	50	6 10 6	Ton	Burma ...	Weight of one pair of fish-plates=28 lbs.

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

METRE AND NARROW GAUGES.

Contracted for in 1896.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
				lbs.	£ s. d.			
60/278	1-7-96	Plates, fish—*concld.*	Steel, flexible, for new standard flat-footed rails	50	8 10 0	Ton	Mandalay-Kunlon ...	One pair of fish plates = 17¾ lbs.
61/89	8-8-96		Steel, special, 1″ thick, for new standard flat-footed rails.	50 and 41¼	1 10 0	Set	Burma ...	One set of 4=34·625 lbs.
63/125	14-10-96		Steel, 18″ long for new standard flat-footed rails	50	6 12 6	Ton	Eastern Bengal	One pair of fish plates =28 lbs.
64/184	10-11-96		Steel, 14·17″ long for flat-footed rails ...	41¼	7 12 6	,,	Mu Valley (Mogoung Extension.)	One pair of fish plates = 9 lbs. 2 oz.
64/331	19-11-96		Steel, half the quantity with holes ¾″ diameter and half with ¾″ square holes for flat-footed pit rails	25	8 8 6	,,	Umaria Colliery.	For siding 1′ 6″ gauge.
57/541	30-4-96	Rails ...	Steel, new standard, flat-footed, in assorted lengths of 30, 27 and 24 feet.	50	4 7 6	Ton	Mandalay-Kunlon and Burma.	
63/124	14-10-96		Steel, new standard, flat-footed in lengths of 40 feet each.	50	4 12 6	,,	Eastern Bengal.	
64/331	19-11-96		Steel, pit, flat-footed in lengths of 24 feet ...	25	5 8 6	,,	Umaria Colliery ...	For siding 1′ 6″ gauge.
56/117	9-3-96	Spikes, dog ...	Wrought-iron, 4″ under head for flat-footed rails.	50 & 41¼	11 19 0	,,	Burma	
58/29	1-5-96		Wrought-iron, 4¾″ long, for new standard flat-flooted rails.	50	11 7 6	,,	Mandalay-Kunlon and Burma.	100 spikes = 53 lbs.
64/183	10-11-96		Wrought-iron, 4⅛″ long for flat-flooted rails ...	41¼	12 7 6	,,	Mu Valley-(Mogoung Extension.)	
64/332	19-11-96		Wrought-iron, 4″ × 7/16″ long for flat-flooted rails.	25	4 17 6	,,	Umaria Colliery ...	*For sidings 1′ 6″ gauge, 100 spikes = 21·875 lbs.*
			For new standard flat-footed rails—					
56/224	16-3-96	Switches (or points complete) ...	Single throw, with lever boxes, complete, 12 feet tongue.	41¼	6 10 6	Set	Burma.	
			Single throw, with lever boxes, complete, 9 feet tongue.		6 2 6	,,		
60/226	15-7-96		With lever boxes, with 12 feet tongue rails, forged steel slide chairs.	50	7 4 6	,,	Mandalay-Kunlon.	
64/393	26-11-96		Single throw, with lever boxes, with 12 feet tongue, on solid forged steel slide chairs.	41¼	7 1 0	,,	Mu Valley (Mogoung Extension.)	

METRE AND NARROW GAUGES.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
64/412 30-11-96	(Switches (or points complete)—*concld.*	Left hand points, open and close ...	25	*43 10 0	For 6 pairs left hand, 6 pairs right hand and 12 crossings.	Umaria Colliery ...	For sidings 1′ 6″ gauge.
		Right hand points, open and close ...					
61/3 5-8-96	Turn plates ...	Pit, for sidings 1′ 6″ gauge	25	2 2 0	each	Ditto.	

Appendix A to the Rate List for Class D Stores for 1896.

Statement showing the cost of permanent-way material for one mile of line (single track).

Description of Permanent-way.	Quantity to be delivered per mile of single track.	WITH FLAT-FOOTED STEEL RAILS ON TRANSVERSE STEEL SLEEPERS. Charges incurred in England. *Cost free on board at port in England.* Per ton of material.	Per mile of single track.	Average sea freight calculated at 20*s.* 6*d.* per ton.	Insurance at one-half per cent. on prime cost *plus* sea freight.	Total English charges.	Indian charges. English charges converted to Indian currency at *s.* *d.* 1 2⅓=1 Re.	Landing charges in India at Rs. 2 per ton.	Total cost delivered at port in India.	Remarks.
5′ 6″ Gauge.	Tons.	£ *s.* *d.*	£ *s.* *d.*	£ *s.* *d.*	£ *s.* *d.*	£ *s.* *d.*	Rs.	Rs.	Rs.	
Rails, steel, 75 lbs. per yard, with four-holed fish-plates (new Indian State railway standard)—	117·86	4 9 0	524 9 6	120 16 1	3 4 6	648 10 1	10,734	236	10,970	
Fish-plates	5·34	5 17 2	31 5 8	5 9 6	0 3 8	36 18 10	611	11	622	
Fish-bolts with nuts and washers	1·33	14 11 8	19 7 11	1 7 4	0 2 1	20 17 4	345	3	348	
Sleepers, steel, transverse, with keys and distance pieces...	124·86	5 1 9*	635 4 6	127 19 7	3 16 4	767 0 5	12,696	250	12,946	* These are rates for 1894. None have been received since.
Sleepers, pot, C. I., and fastenings, Indian Midland Railway pattern	215·00	3 19 8	856 8 3	220 7 6	5 7 8	1,082 3 5	17,912	430	18,342	
Total with transverse sleepers with fastenings ...	**249·39**	.....	**1,210 7 7**	**255 12 6**	**7 6 7**	**1,473 6 0**	**24,386**	**500**	**24,886**	
Total with c. i. pot sleepers and fastenings Indian Midland Railway pattern	**339·53**	.....	**1,431 11 6**	**348 0 5**	**8 17 11**	**1,788 9 8**	**29,602**	**680**	**30,282**	
Rails, steel, 75 lbs. per yard (East Coast railway pattern)— ...	117·86	4 9 2	525 9 2	120 16 2	3 4 8	649 10 0	10,750	236	10,986	
Fish-plates	4·59	5 19 2	27 6 11	4 14 1	0 3 2	32 4 2	533	9	542	
Fish-bolts, with nuts and washers	1·66	15 0 10	24 19 5	1 14 0	0 2 8	26 16 1	444	3	447	
Sleepers, steel, transverse, with keys	122·94	5 0 0*	614 14 0	126 0 3	3 14 1	744 8 4	12,321	246	12,567	
Total with transverse sleepers with fastenings ...	**247·05**	.....	**1,192 9 6**	**253 4 6**	**7 4 7**	**1,452 18 7**	**24,048**	**494**	**24,542**	
Metre Gauge.										
Rails, steels, 50 lbs. per yard (State railway pattern)— ...	78·57	4 10 0	353 11 3	80 10 8	2 8 5	436 10 4	7,225	157	7,382	
Fish-plates	4·67	7 4 4	33 14 1	4 15 9	0 3 10	38 13 8	640	9	649	
Fish-bolts, with nuts and washers	0·65	15 13 3	10 3 7	0 13 4	0 1 1	10 18 0	189	2	182	
Sleepers, steel, transverse, with keys	68·15	5 10 0†	374 16 6	69 17 1	2 4 6	446 18 1	7,397	136	7,533	† These are rates for 1893. None have been received since.
Total with transverse sleepers and fastenings ...	**152·04**	.....	**772 5 5**	**155 16 10**	**4 17 10**	**933 0 1**	**15,442**	**304**	**15,746**	
Rails, steel, 41½ lbs. per yard (State railway pattern)— ...	64·82	3 10 6*	228 9 10	66 8 9	1 9 6	296 8 1	4,906	130	5,036	
Fish-plates	1·52	7 12 6	11 11 10	1 11 2	0 1 4	13 4 4	219	3	222	
Fish-bolts, with nuts and washers	0.65	15 15 2	10 4 10	0 13 4	0 1 1	10 19 3	181	1	182	
Sleepers, steel, transverse, with keys	62·79	5 10 0†	345 6 11	64 7 2	2 0 11	411 15 0	6,815	126	6,941	
Total with transverse sleepers and fastenings ...	**129·78**	.....	**595 13 5**	**133 0 5**	**3 12 10**	**732 6 8**	**12,121**	**260**	**12,381**	

Appendix B to the Rate List for Class D Stores for 1896.

Statement showing the carriage of one mile of Permanent-way material complete for one hundred miles of distance.

TYPE OF PERMANENT-WAY (ENGLISH MATERIAL).	Weight for one mile of single track.	STATE RAILWAYS AND EAST INDIAN RAILWAY.		Great Indian Peninsula Railway @ 4·08 pies per ton per mile.	Bombay, Baroda and Central India Railway @ 4·08 pies per ton per mile.	Rajputana-Malwa Railway @ 4·08 pies per ton per mile.	REMARKS.
		For first 400 miles 4·08 pies per ton per mile.	For distance in excess of 400 miles @ 2·72 pies per ton per mile.				
	Tons.	Rs.	Rs.	Rs.	Rs.	Rs.	
New Indian State Railway standard 75 lbs. with 4″ foot (5′ 6″ gauge).	249·39	529·9	353·3	529·9	529·9	529·9	
East Coast Railway Pattern 75 lbs. with 4·2″ foot (5′ 6″ gauge) ...	247·05	524·9	349·9	524·9	524·9	524·9	
Indian State Railway Pattern 50 lbs. (metre gauge) ...	152·04	323·1	215·4	323·1	323·1	323·1	
Indian State Railway Pattern 41¼ lbs. (metre gauge) ...	129·78	275·8	183·9	275·8	275·8	275·8	

N.B.—Terminal charges are not included in the mileage rates for carriage, as it is understood that the material is loaded and unloaded by the owners.

The rates given here for the Great Indian Peninsula Railway are applicable up to 400 miles of distance only.

Consignments of 190 maunds and over are carried at the following special rates over the Bombay, Baroda and Central India Railway and Rajputana-Malwa Railway.

From	1 to 100 miles	...	...	0·35 pies
,,	101 to 200 ,,	...	...	0·25 ,,
,,	201 to 400 ,,	...	...	0·15 ,,
Over	400 ,,	...	...	0·10 ,,

per maund per mile, excluding terminals.

Enclosure to Director General of Railways' Circular No. 6 of 1897.

RATE LIST.

CLASS D.

PERMANENT-WAY MATERIALS.

FOR 1896.

G. C. Press, Simla.—No. 219 P. W. D.—21-8-97.—841.

Enclosure to Director General of Railways' Circular No. 6 of 1897.

Table of average Sea-freight for Permanent-way Materials landed during 1896.

Details.	Average rate per ton.										Remarks.
	Karachi.		Bombay.		Coconada or Vizagapatam.		Calcutta.		Rangoon.		
	s.	*d.*	*s.*	*d.*	*s.*	*d.*	*s.*	*d.*	*s.*	*d.*	
Bolts, fish	18	3	22	6	22	0	17	6	23	6	Where rates have not been quoted, it should be understood that material was not imported during the year.
Crossings and switches	20	8	25	0	28	1	18	3	26	0	
Plates, bearing	17	7	...		...		...		...		
Plates, fish	20	4	20	0	21	1	18	4	21	3	
Rails	17	1	16	3	21	3	18	3	20	10	
Sleepers	20	5	*25	0	...		21	9	...		
Spikes, dog	16	2	...		21	11	20	0	21	0	

* Pine sleepers.

CLASS OF STORES D.—PERMANENT-WAY MATERIALS.

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
55/383 — 28-2-96	Bolts, fish ...	Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4″ foot.	75	14 12 6	Ton	North Western ...	Weight-30·65 oz.
56/10 — 3-3-96		Steel, 4¾″ underhead × 1″ diameter, with special nuts for new standard double-headed rails.	,,	14 14 0	,,	Eastern Bengal ...	Weight-30·7 oz.
57/509 — 29-4-96		Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4″ foot.	,,	14 7 6	,,	North Western ...	
60/44 — 2-7-96		Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4″ foot.	,,	14 9 0	,,	Ditto ...	Weight-30·65 oz.
63/176 — 19-10-96		Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4″ foot.	,,	14 17 6	,,	Rae Bareli-Benares and Oudh and Rohilkhand.	

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
63/176 — 19-10-96	Bolts, fish—*concld.*	Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4·2″ foot.	75	14 17 6	Ton	Bezvada-Madras ...	Weight-30·65 oz.
64/294 — 14-11-96		Steel, 4½″ underhead × 1″ diameter, with special nuts for new standard flat-footed rails with 4·2″ foot.	,,	14 17 6	,,	Ditto ...	Weight-30·65 oz.
65/127 — 14-12-96		Steel, 4¾″ underhead × 1″ diameter, with special nuts for fish-plates for new standard double-headed rails.	,,	15 7 6	,,	Eastern Bengal ...	Weight-31·32 oz.
65/127 — 14-12-96		Steel, 4½″ underhead × 1″ diameter for new standard flat-footed rails with 4·2″ foot.	,,	15 7 6	,,	Ditto. ...	Weight-30·65 oz.
62/292 — 28-9-96	Chairs ...	Pressed steel, bridge, for new standard flat-footed rails with 4″ foot.	75	11 0 0	Ton	North Western ...	Weight-17½ lbs.
65/27 — 4-12-96		Cast-iron (single) for new standard double-headed rails.	,,	3 6 6	,,	Eastern Bengal ...	Weight-38 lbs.
56/224 — 16-3-96	Crossings ...	Steel, built up, with chairs, bolts and nuts, complete, for rails, flat-footed new standard 4″ foot—					
		Angle 1 in 10	75	7 0 0	Set	Oudh and Rohilkhand.	
		,, 1 in 12		7 1 0	,,		
58/402 — 19-5-96		Steel, built up, complete, for new standard flat-footed rails with 4″ foot—					
		Angle 1 in 8½	,,	5 17 0	,,	North Western.	
		,, 1 in 12		6 11 0	,,		
62/119 — 9-9-96		Steel, built up, complete, for new standard flat-footed rails with 4″ foot—					
		Angle 1 in 8½	,,	6 7 6	,,	Ditto.	
		,, 1 in 12		7 1 6	,,		
63/129 — 14-10-96		Steel, built up, complete, for new standard flat-footed rails 4″ foot—					
		Angle 1 in 6	,,	6 6 0	,,	Rai Bareli-Benares.	
		,, 1 in 8½		6 5 0	,,		
		,, 1 in 12		6 19 0	,,		

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£. s. d.			
64/338 — 19-11-96	Crossings—*concld.*	Steel, built up, complete, for new standard flat-footed rails with 4″ foot— Angle 1 in 12	75	7 1 0	Set	Mari-Attock.	
		Steel, built up, complete, for new standard flat-footed rails 4·2″ foot—					
63/139 — 16-10-96		Angle 1 in 6	,,	5 19 6	,,	Bezwada-Madras.	With the crossing chairs straight.
		,, 1 in 8½	,,				
		,, 1 in 12	,,	6 14 0	,,		
64/391 — 25-11-96		,, 1 in 12	,,	7 2 6	,,		
		Steel, built up, complete, to suit double-headed rails—					
		Angle 1 in 6		6 2 6			
63/251 — 26-10-96		,, 1 in 8½	73	5 19 6	,,	Eastern Bengal.	
		,, 1 in 9½		6 2 6			
		,, 1 in 12		6 16 6			
59/81 — 10-6-96	Keys ...	Steel, 8¼″ long, for sleepers for old standard flat-footed rails 4″ foot.	75	11 17 6	Ton	Oudh and Rohilkhand.	
62/292 — 28-9-96		Steel, 10″ long, for pressed steel bridge chairs for new standard flat-footed rails 4″ foot.	,,	11 0 0	,,	North-Western ...	Weight-1½ lbs.
55/339 — 25-2-96	Plates, bearing ...	Wrought-iron, 7½″ × 7″ with four square holes for new standard flat-footed rails with 4″ foot.	75	8 9 0	Ton	North Western ...	Weight-7½ lbs.
55/344 — 26-2-96		Wrought-iron, 7½″ × 7″ with four square holes for new standard flat-footed rails with 4″ foot.	,,	8 0 0	,,	Ditto ...	
64/247 — 12-11-96		Wrought-iron, 7½″ × 7″ with four square holes for new standard flat-footed rails with 4″ foot.	,,	8 10 0	,,	Mari-Attock ...	
55/386 — 28-2-96	Plates, fish ...	Steel, four-holed, 1′ 9½″ long, for new standard flat-footed rails with 4″ foot.	75	5 15 0	Ton	North Western ...	One pair = 32 lbs.
56/11 — 3-3-96		Steel, four holed, 17″ long, for new standard double-headed rails.	,,	6 2 6	,,	Eastern Bengal ...	One pair = 34·5 lbs.
57/508 — 29-4-96		Steel, four-holed, 1′ 9½″ long, for new standard flat-footed rails with 4″ foot.	,,	5 18 6	,,	North Western ...	
60/45 — 2-7-96		Steel, four-holed, 1′ 9½″ long, for new standard flat-footed rails with 4″ foot.	,,	5 17 6	,,	Ditto ...	One pair = 32 lbs.
63/98 — 13-10-96		Steel, four-holed, 1′ 9½″ long, for new standard flat-footed rails with 4″ foot.	,,	5 17 6	,,	Rai Bareli-Benares ...	
63/103 — 13-10-96		Steel, four-holed, 1′ 9½″ for new standard flat-footed rails with 4·2″ foot.	,,	5 17 6	,,	Bezwada-Madras ...	One pair = 31½ lbs.
63/274 — 27-10-96		Steel, four-holed, 1′ 9½″ long for new standard flat-footed rails with 4″ foot.	,,	5 17 6	,,	Oudh and Rohilkhand	One pair = 32 lbs.
64/358 — 21-11-96		Steel, four-holed, 1′ 9½″ long for new standard flat-footed rails with 4·2″ foot.	,,	5 17 6	,,	Bezwada-Madras ...	One pair = 31½ lbs.
65/167 — 21-12-96		Steel, four-holed, 17″ long, for new standard double-headed rails.	,,	6 2 6	,,	Eastern Bengal ...	One pair = 34½ lbs.
		Steel, four-holed, 1′ 9½″ long for new standard flat-footed rails with 4·2″ foot.	,,	6 2 6	,,		One pair = 31½ lbs.

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ Gauge.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
55/387 — 29-2-96	Rails	Steel, new standard, flat-footed, with 4″ foot, in assorted lengths.	75	4 13 9	Ton	North Western.	
56/12 — 3-3-96		Steel, new standard, double-headed with 2 bolt holes at each end, in lengths of 30′	,,	4 12 6	,,	Eastern Bengal.	
57/517 — 29-4-96		Steel, new standard, flat-footed, with 4″ foot, with 2 bolt holes at each end, in assorted lengths.	,,	4 8 6	,,	North Western.	
60/46 — 2-7-96		Steel, new standard, flat-footed with 4″ foot, with 2 bolt holes at each end, in assorted lengths.	,,	4 7 6	,,	Ditto.	
63/102 — 13-10-96		Steel, new standard, flat-footed, with 4·2″ foot, with 2 bolt holes at each end, in assorted lengths.	,,	4 7 6	,,	Bezwada-Madras.	
63/128 — 14-10-96		Steel, new standard, flat-footed, with 4″ foot, with 2 bolt holes at each end, in assorted lengths.	,,	4 7 6	,,	Rae Bareli-Benares.	
63/291 — 28-10-96		Steel, new standard, flat-footed, with 4″ foot, with 2 bolt holes at each end, in 30 feet lengths.	,,	4 7 6	,,	Oudh and Rohilkhand.	
64/358 — 21-11-96	Rails—*concld.*	Steel, new standard, flat-footed, with 4·2″ foot with 2 bolt holes at each end, in assorted lengths, and also in lengths of 30 feet only.	75	4 7 6	,,	Bezwada-Madras.	
65/166 — 21-12-96		Steel, new standard, double-headed, with 2 bolt holes at each end, in lengths of 30 feet each.	,,	4 12 6	,,	Eastern Bengal.	
		Steel, new standard, flat-footed, with 4·2″ foot with 2 bolt holes at each end, in lengths of 30 feet each.	,,	4 12 6	,,	Eastern Bengal.	
		Spare parts of :—					
57/322 — 17-4-96		Locking bars with one crank, connecting rod and adjusting screw each for double headed rails.	73	4 18 6	Each	Eastern Bengal.	
56/115 — 9-8-96	Sleepers	Cast-iron, Denham Olphert's, complete with tie bars and fastenings for new standard double headed rails.	75		Ton	Eastern Bengal.	
		Plates, cast-iron		3 6 6			
		Jaws		3 6 6			
		Tie bars, wrought-iron		6 2 6			
		Keys		14 2 6			
		Cotters		14 2 6			
		Keys for curves		14 2 6			
		Cotters for curves		14 2 6			

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ *s.* *d.*			
	Sleepers—*contd* ...	Cast-iron, Denham Olphart's, complete, with tie bars and fastenings for new standard double headed rails—		...		...	
56/116 9-3-96		Plates, cast iron	75	3 2 0	Ton		
		Jaws		3 2 0	,,		
		Cast-iron plate, Denham Olphert's, complete, with fastenings for double-headed rails—					
		Cast-iron plates		3 11 0	,,		
		,, ,, jaws		3 11 0	,,		
65/100 12-12-96		Wrought-iron, tie bars	73	6 7 6	,,		
		,, ,, cotters					
		,, ,, keys		14 10 0	,,		
		,, ,, cotters for curves				Eastern Bengal.	
		,, ,, keys for curves					
		Cast-iron plate, Denham Olphert's, complete, with fastenings for new standard double-headed rails—					
		Cast-iron plates		3 11 3	,,		
		,, ,, jaws		3 11 3	,,		
65/227 28-12-96		Wrought-iron, tie bars	75	6 8 0	,,		
		,, ,, keys					
		,, ,, cotters		14 10 0	,,		
		,, ,, keys for curves					
		,, ,, cotters for curves					
		Cast-iron, pot sleepers, complete, with tie bars and fastenings for new standard flat-footed rails with 4″ foot (Indian Midland pattern)—					
		Cast-iron, pots		3 7 6	,,		
58/104 5-5-96	Sleepers—*concld.* ...	,, ,, clips		5 4 0	,,		
		Wrought-iron, cotters	75	14 2 6	,,		
		,, ,, gibs		14 2 6	,,		
		,, ,, keys		13 12 6	,,		
		,, ,, tie bars		6 2 6	,,		
		Cast-iron, pot sleepers, complete, with tie bars and fastenings, for new standard flat-footed rails, with 4″ foot (Indian Midland pattern)—				North Western.	
60/121 6-7-96		Cast-iron pots		3 8 6	,,		
		,, ,, clips		5 7 6	,,		
		Wrought-iron-cotters	75	14 5 0	,,		
		,, ,, gibs		14 5. 0	,,		
		,, ,, keys		13 15 0	,,		
		,, ,, tie bars		6 5 0	,,		
56/313 23-3-96		Creosoted (Baltic) red pine 8′ 11″ × 10′ × 5″		0 3 3⅛	each		

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ GAUGE.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
55/382 — 28-2-96	Spikes, dog ...	Wrought-iron, 5″ long, underhead, and $\frac{5}{8}$″ square, for new standard flat-footed rails with 4″ foot.	75	11 7 6	Ton	North Western ...	To weigh $\frac{7}{10}$ lbs. each.
63/177 — 19-10-96		Wrought-iron, 5″ long, underhead, and $\frac{5}{8}$″ square, for new standard flat-footed rails with 4·2″ foot.	,,	11 12 6	,,	Bezwada-Madras ...	
63/177 — 19-10-96		Wrought-iron, 5″ long, underhead, and $\frac{5}{8}$″ square, for new standard flat-footed rails with 4″ foot.	,,	11 12 6	,,	Rae Bareily-Benares	
64/138 — 6-11-96		Wrought-iron, 5″ long, underhead, and $\frac{5}{8}$″ square, for new standard flat-footed rails with 4″ foot.	,,	11 12 6	,,	Mari-Attock ...	
64/294 — 14-11-96		Ditto ditto	,,	11 12 6	,,	Bezwada-Madras ...	
65/155 — 19-12-96		Ditto ditto ... with 4·2″ foot.	,,	11 15 0	,,	Eastern Bengal ...	
65/28 — 4-12-96		Wrought-iron, for chairs, single, cast-iron ...	,,	10 17 6	,,	Ditto ...	To weigh 16½ oz. each.
	Switches or points (complete.)	*Complete with lever boxes to suit new standard flat-footed rails, with 4″ foot.*					
56/224 — 16-3-96		Single throw, with over throw lever, length of tongue 15 feet.	75	9 10 0	Set	Oudh and Rohilkhand.	
57/519 — 29-4-96		Single throw, with 12 feet tongue rails ...	,,	9 10 0	,,	North Western.	
58/402 — 19-5-96		,, ,, 12 ,, ...	,,	8 5 0	,,		
		,, ,, 15 ,, ...	,,	9 4 0	,,		
62/119 — 9-9-96		,, ,, 12 ,, ...	,,	8 15 0	,,		
		,, ,, 15 ,, ...	,,	9 15 6	,,		
63/129 — 14-10-96		With 15 feet tongue rails	,,	9 15 6	,,	Rai Bareli-Benares.	*With steel slide chairs.*
64/338 — 19-11-96		,, 12 ,, ,, ...	,,	8 18 0	,,		
		,, 15 ,, ,, ...	,,	9 15 6	,,	Main Attock.	
		For new standard flat-footed rails, with 4·2″ foot.					
63/139 — 16-10-96		With 15 feet tongue rails	,,	9 6 0	,,	Bezwada-Madras.	
64/391 — 25-11-96		,, 12 ,, ...	,,	8 7 6	,,		
		With 15 feet tongue rails and lever boxes ...	,,	10 1 0	,,	Bezwada-Madras.	
		Complete with lever boxes to suit double headed rails.					
63/251 — 26-10-96		With 15 feet tongue rails	73	9 5 6	,,	Eastern Bengal.	
		,, 12 ,, ,, ...		8 7 0	,,		
		,, 15 ,, ,, without lever handle		8 0 6	,,		
		,, 12 ,, ,, ,, ,,		7 2 0	,,		

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

METRE AND NARROW GAUGES.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
56/117 9-3-96	Bolts, fish ...	Steel, $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for new standard flat-footed steel rails.	50 and $41\frac{1}{4}$	15 9 0	Ton	Burma	One bolt nut and washer = 15 oz.
		Steel, $4'' \times \frac{3}{4}''$ screwed for a length of $2\frac{1}{2}''$ for special fish-plates with nuts, and washers, for steel rails.		15 9 0	,,		One bolt nut and washer = $16\frac{3}{8}$ oz.
58/76 5-5-96		Steel, $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for 18 feet new standard rails.	50	15 2 6	,,		One bolt nut and washer = 15 oz.
60/169 10-7-96		Steel, $3\frac{3}{4}'' \times \frac{3}{4}''$ with nuts, and washers, for new standard flat-footed rails.	50	15 7 6	,,	Mandalay-Kunlon ...	One bolt nut and washer = 15·75 oz.
61/89 8-8-96		Steel, $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for new standard rails.	50 and $41\frac{1}{4}$	15 19 0	,,	Burma ...	One bolt nut and washer = 15 oz.
		Steel, $4'' \times \frac{3}{4}''$ screwed for a length of $2\frac{1}{2}''$ for special fish-plates with nuts, and washers, for new standard steel rails.		15 19 0	,,		One bolt nut and washer = $16\frac{3}{8}$ oz.
63/100 13-10-96		Steel $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for new standard flat-footed rails.	50	15 17 6	,,	Eastern Bengal ...	One bolt nut and washer = 15 oz.
64/205 10-11-96		Steel $3\frac{3}{8}'' \times \frac{3}{4}''$ with nuts, and washers, for flat-footed rails.	$41\frac{1}{4}$	15 17 6	,,	Mu Valley Mogoung Extension ...	One bolt nut and washer = 15 oz.
64/332 19-11-96	Bolts, fish—*concld.*	Steel, $\frac{5}{8}''$ diameter, with nuts, and washers, for flat-footed rails.	25	*23-17-6	Ton.	Umaria-Colliery ...	*Special, only $6\frac{1}{2}$ cwt., indented for.
56/224 16-3-96	Crossings ...	Steel, built up, complete, for flat-footed steel rails—					
		Angle, 1 in $8\frac{1}{2}$	$41\frac{1}{4}$	4 12 6	Set	Burma.	
		,, 1 in 12					
60/226 15-7-96		Steel, built up, for new standard rails, flat-footed—					
		Angle, 1 in $8\frac{1}{2}$	50	5 1 3	,,	Mandalay-Kunlon.	
		,, 1 in 6		5 13 3	,,		
64/393 26-11-96		Steel, built up, complete, for new standard flat-footed steel, rails—					
		Angle, 1 in $8\frac{1}{2}$	$41\frac{1}{4}$	4 17 0		Mu Valley. (Mogoung Extension.)	
		,, 1 in 12					
64/412 30-11-96		,, 1 in 6	25	*For cost see page 16 included in Switches and points.*		Umaria Colliery. ...	For sidings 1′ 6″ gauge.
56/117 9-3-96	Plates, fish ...	Steel, special, for new standard flat-footed steel rails.	50 and $41\frac{1}{4}$	1 8 0	Set	Burma.	
57/540 30-4-96		Steel, 18″ long for new standard rails, deep web pattern.	50	6 10 6	Ton	Burma ...	Weight of one pair of fish-plates=28 lbs.

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

METRE AND NARROW GAUGES.

Contracted for in 1896.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
60/278 1-7-96	Plates, fish—*concld.*	Steel, flexible, for new standard flat-footed rails	50	8 10 0	Ton	Mandalay-Kunlon ...	One pair of fish plates =17¾ lbs.
61/89 8-8-96		Steel, special, 1″ thick, for new standard flat-footed rails.	50 and 41¼	1 10 0	Set	Burma ...	One set of 4=34·625 lbs.
63/125 14-10-96		Steel, 18″ long for new standard flat-footed rails	50	6 12 6	Ton	Eastern Bengal	One pair of fish plates =28 lbs.
64/184 10-11-96		Steel, 14·17″ long for flat-footed rails ...	41¼	7 12 6	,,	Mu Valley (Mogoung Extension.)	One pair of fish plates = 9 lbs. 2 oz.
64/331 19-11-96		Steel, half the quantity with holes ¾″ diameter and half with ¾″ square holes for flat-footed pit rails	25	8 8 6	,,	Umaria Colliery.	For siding 1′ 6″ gauge.
57/541 30-4-96	Rails ...	Steel, new standard, flat-footed, in assorted lengths of 30, 27 and 24 feet.	50	4 7 6	Ton	Mandalay-Kunlon and Burma.	
63/124 14-10-96		Steel, new standard, flat-footed in lengths of 40 feet each.	50	4 12 6	,,	Eastern Bengal.	
64/331 19-11-96		Steel, pit, flat-footed in lengths of 24 feet ...	25	5 8 6	,,	Umaria Colliery ...	For siding 1′ 6″ gauge.
56/117 9-3-96	Spikes, dog ...	Wrought-iron, 4″ under head for flat-footed rails.	50 & 41¼	11 19 0	,,	Burma	100 spikes = 53 lbs.
58/29 1-5-96		Wrought-iron, 4¾″ long, for new standard flat-flooted rails.	50	11 7 6	,,	Mandalay-Kunlon and Burma.	
64/183 10-11-96		Wrought-iron, 4⅛″ long for flat-flooted rails ...	41¼	12 7 6	,,	Mu Valley-(Mogoung Extension.)	
64/332 19-11-96		Wrought-iron, 4″ × 7/16″ long for flat-flooted rails.	25	4 17 6	,,	Umaria Colliery ...	*For sidings 1′ 6″ gauge, 100 spikes = 21·875 lbs.*
		For new standard flat-footed rails—					
56/224 16-3-96	Switches (or points complete) ...	Single throw, with lever boxes, complete, 12 feet tongue.	41¼	6 10 6	Set	Burma.	
		Single throw, with lever boxes, complete, 9 feet tongue.		6 2 6	,,		
60/226 15-7-96		With lever boxes, with 12 feet tongue rails, forged steel slide chairs.	50	7 4 6	,,	Mandalay-Kunlon.	
64/393 26-11-96		Single throw, with lever boxes, with 12 feet tongue, on solid forged steel slide chairs.	41¼	7 1 0	,,	Mu Valley (Mogoung Extension.)	

METRE AND NARROW GAUGES.

Contracted for in 1896.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
				lbs.	£ s. d.			
64/412	30-11-96	(Switches (or points complete)—*concld.*	Left hand points, open and close ...	25	*43 10 0	For 6 pairs left hand, 6 pairs right hand and 12 crossings.	Umaria Colliery ...	For sidings 1′ 6″ gauge.
			Right hand points, open and close ...					
61/3	5-8-96	Turn plates ...	Pit, for sidings 1′ 6″ gauge	25	2 2 0	each	Ditto.	

Appendix A to the Rate List for Class D Stores for 1896.

Statement showing the cost of permanent-way material for one mile of line (single track).

Description of Permanent-way.	WITH FLAT-FOOTED STEEL RAILS ON TRANSVERSE STEEL SLEEPERS. Quantity to be delivered per *mile of single track.*	Charges incurred in England. *Cost free on board at port in England.* Per ton of material.	Per mile of single track.	Average sea freight calculated at 20*s.* 6*d.* per ton.	Insurance at one-half per cent. on prime cost *plus* sea freight.	*Total English charges.*	Indian charges. English charges converted to Indian currency at *s. d.* 1 2½=1 Re.	Landing charges in India at Rs. 2 per ton.	Total cost delivered at port in India.	Remarks.
5′ 6″ Gauge.	Tons.	£ *s. d.*	£ *s. d.*	£ *s. d.*	£ *s. d.*	£ *s. d.*	Rs.	Rs.	Rs.	
Rails, steel, 75 lbs. per yard, with four-holed fish-plates (new Indian State railway standard)—	117·86	4 9 0	524 9 6	120 16 1	3 4 6	648 10 1	10,734	236	10,970	
Fish-plates	5·34	5 17 2	31 5 8	5 9 6	0 3 8	36 18 10	611	11	622	
Fish-bolts with nuts and washers	1·33	14 11 8	19 7 11	1 7 4	0 2 1	20 17 4	345	3	348	
Sleepers, steel, transverse, with keys and distance pieces...	124·86	5 1 9*	635 4 6	127 19 7	3 16 4	767 0 5	12,696	250	12,946	* These are rates for 1894. None have been received since.
Sleepers, pot, C. I., and fastenings, Indian Midland Railway pattern	215·00	3 19 8	856 8 3	220 7 6	5 7 8	1,082 3 5	17,912	430	18,342	
Total with transverse sleepers with fastenings ...	**249·39**	.....	**1,210 7 7**	**255 12 6**	**7 6 7**	**1,473 6 0**	**24,386**	**500**	**24,886**	
Total with c. i. pot sleepers and fastenings Indian Midland Railway pattern	**339·53**	.....	**1,431 11 6**	**348 0 5**	**8 17 11**	**1,788 9 8**	**29,602**	**680**	**30,282**	
Rails, steel, 75 lbs. per yard (East Coast railway pattern)— ...	117·86	4 9 2	525 9 2	120 16 2	3 4 8	649 10 0	10,750	236	10,986	
Fish-plates	4·59	5 19 2	27 6 11	4 14 1	0 3 2	32 4 2	533	9	542	
Fish-bolts, with nuts and washers	1·66	15 0 10	24 19 5	1 14 0	0 2 8	26 16 1	444	3	447	
Sleepers, steel, transverse, with keys	122·94	5 0 0*	614 14 0	126 0 3	3 14 1	744 8 4	12,321	246	12,567	
Total with transverse sleepers with fastenings ...	**247·05**	.....	**1,192 9 6**	**253 4 6**	**7 4 7**	**1,452 18 7**	**24,048**	**494**	**24,542**	
Metre Gauge.										
Rails, steels, 50 lbs. per yard (State railway pattern)— ...	78·57	4 10 0	353 11 3	80 10 8	2 8 5	436 10 4	7,225	157	7,382	
Fish-plates	4·67	7 4 4	33 14 1	4 15 9	0 3 10	38 13 8	640	9	649	
Fish-bolts, with nuts and washers	0·65	15 13 3	10 3 7	0 13 4	0 1 1	10 18 0	180	2	182	
Sleepers, steel, transverse, with keys	68·15	5 10 0†	374 16 6	69 17 1	2 4 6	446 18 1	7,397	136	7,533	† These are rates for 1893. None have been received since.
Total with transverse sleepers and fastenings ...	**152·04**	.....	**772 5 5**	**155 16 10**	**4 17 10**	**933 0 1**	**15,442**	**304**	**15,746**	
Rails, steel, 41½ lbs. per yard (State railway pattern)— ...	64·82	3 10 6*	228 9 10	66 8 9	1 9 6	296 8 1	4,906	130	5,036	
Fish-plates	1·52	7 12 6	11 11 10	1 11 2	0 1 4	13 4 4	219	3	222	
Fish-bolts, with nuts and washers	0.65	15 15 2	10 4 10	0 13 4	0 1 1	10 19 3	181	1	182	
Sleepers, steel, transverse, with keys	62·79	5 10 0†	345 6 11	64 7 2	2 0 11	411 15 0	6,815	126	6,941	
Total with transverse sleepers and fastenings ...	**129·78**	.....	**595 13 5**	**133 0 5**	**3 12 10**	**732 6 8**	**12,121**	**260**	**12,381**	

Appendix B to the Rate List for Class D Stores for 1896.

Statement showing the carriage of one mile of Permanent-way material complete for one hundred miles of distance.

TYPE OF PERMANENT-WAY (ENGLISH MATERIAL).	Weight for one mile of single track.	STATE RAILWAYS AND EAST INDIAN RAILWAY.		Great Indian Peninsula Railway @ 4·08 pies per ton per mile.	Bombay, Baroda and Central India Railway @ 4·08 pies per ton per mile.	Rajputana-Malwa Railway @ 4·08 pies per ton per mile.	REMARKS.
		For first 400 miles 4·08 pies per ton per mile.	For distance in excess of 400 miles @ 2·72 pies per ton per mile.				
	Tons.	Rs.	Rs.	Rs.	Rs.	Rs.	
New Indian State Railway standard 75 lbs. with 4″ foot (5′ 6″ gauge).	249·39	529·9	353·3	529·9	529·9	529·9	
East Coast Railway Pattern 75 lbs. with 4·2″ foot (5′ 6″ gauge) ...	247·05	524·9	349·9	524·9	524·9	524·9	
Indian State Railway Pattern 50 lbs. (metre gauge) ...	152·04	323·1	215·4	323·1	323·1	323·1	
Indian State Railway Pattern 41¼ lbs. (metre gauge) ...	129·78	275·8	183·9	275·8	275·8	275·8	

N.B.—Terminal charges are not included in the mileage rates for carriage, as it is understood that the material is loaded and unloaded by the owners.
The rates given here for the Great Indian Peninsula Railway are applicable up to 400 miles of distance only.
Consignments of 190 maunds and over are carried at the following special rates over the Bombay, Baroda and Central India Railway and Rajputana-Malwa Railway.

From	1 to 100 miles	...	... 0·35 pies	per maund per mile, excluding terminals.
„	101 to 200 „	...	... 0·25 „	
„	201 to 400 „	...	... 0·15 „	
Over	400 „	...	... 0·10 „	