Public Works (1899) Department.

G.O., No. 1764 W

DATED 10th July 1899.

[Despatch Abstract.]

Rate List, Class B —; "Engineer's Plant" (Excluding Petty Tools) for 1898: Circular from the Director of Ry: Confirmation forwarding Copies of —, Comm^d to the Officers of the P.W.D.

T.

[P. W. 2 / 2,000—20-3-99.]

Indexed. 15/7

BACK PAPERS.

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

FURTHER PAPERS.

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

P. W. (1899) Department.

CURRENT No. 4933

1500 W 8/99

From The Secretary of Railways Communications

B/ No. 1764 W dy 10-7-99.

No. 6

Communicated to Officers of the P.W. Dept.

Dated 2-5-99

Received 15-5-99

Registered 21-6-99

Enclosures /

Spare copies

Rw. All 22/6 Dw.

SUBJECT.

Rate list class B - "Engineers Plant" (excluding Petty Tools) for 1898): - Forwarding a copy of ———

To

The Chief Engr. for Irrigation " 116
All Supts. Engrs. 15-5-15-5-5-5
Re C. A. to Govt. /
" Supdt. of Works, Lit. Divn. 2 copies
" Govt. P.W. Accts. 2 copies

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[P. W. 28. 2,000—18-29-9.]

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BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Enclosure to Director of Railway Construction's Circular No. 6 of 1899.

RATE LIST.

CLASS B.

ENGINEERS' PLANT (EXCLUDING PETTY TOOLS)

FOR 1898.

G. C. Press, Simla.—No. 2006 P. W. D.—1-6-99.—45.

Rec. 1
C 9 30/8

Enclosure to Director of Railway Construction's Circular No. 6 of 1899.

Statement showing the average rate per ton for entire sea-freight on Class B Stores imported from England to the several ports during 1898.

Class of stores.	Kurrachee.	Bombay.	Coconada, Vizagapatam, or Madras.	Calcutta.	Remarks.
	s. *d.*	*s.* *d.*	*s.* *d.*	*s.* *d.*	
Class B, "Engineers' Plant" (excluding Petty Tools).	16 6	.....	27 6	27 6	

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

Contracted for in 1898.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	For what railway.	Remarks.
81/238 — 23-4-98	Anvils ...	Smiths, pike and arch 4½ cwts. face steeled for a depth of ¼" with best "double shear steel"	4	17	9	Each	North Western.	
79/258 — 21-2-98	Bears ...	Punching, hydraulic, to punch holes through ¾" mild steel plate, each complete with punches and dies ¾", 13/16", ⅞", 15/16" and 1" diameter	10	15	0	Each	North Western.	
89/219 — 19-12-98		Punching duplex with 2" gap from back to centre of Punch, to punch 13/16" holes through ⅝" steel plate. Punches and dies for ⅝", ½", ⅜" and 13/16" supplied with bear	8	10	...	"	Eastern Bengal.	
87/106 — 13-10-98	Beaters ...	Platelayers, steel pointed, 7lbs, with solid eyes... ...	0	1	5	Each	East Coast.	
84/63 — 2-7-98	Blocsk ...	Pulley "half chain," complete with chain, distance from hook to hook 12 feet—						
		Capacity of lifting 1 ton	5	0	10	Set	Eastern Bengal.	
		" " 2 tons	7	8	6	"		
		" " 4 tons	10	11	2	"		

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

Contracted for in 1898.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	For what railway.	Remarks.
	Blocks ...	Differential pulley with chain complete—						
		To lift 2 tons to a height of 16 feet (Weston's.) ...	3	6	0	Each	Godavari Bridge.	
85/86 8-8-98		„ 1½ „ „ „ 16 „ („) ...	3	6	0	„		
		„ 5 tons ... ... (Tangye's) ...	5	2	0	„	North Western.	
86/151 13-9-98		„ 4 „ ... ... („) ...	3	4	0	„		
		„ 1 „ to a height of 20 feet (Weston's) ...	2	2	0	„	East Coast.	
87/60 7-10-98		Pulley, W. I. single sheave 18″ diameter with 4″ clear between cheeks to lift 5 tons, for wire rope 3½″ circumference	5	13	0	„		
85/86 8-8-98		Pulley, double sheave	10	10	0	„	Godavari Bridge ...	
		„ treble „ safe load 25 tons } For lowering caissons.	15	0	0	„		*Diameter of all sheaves 22″ to take wire rope 3½″ circumference.*
85/393 26-8-98		Snatch, single sheave, safe load 10 tons }	9	0	0	„		
89/196 16-12-98		Pulley geared Weston's patent, 10 tons with chain complete for a lift of 12 feet	38	...	...	Set		
	Boilers ...	Steam, vertical, complete, to work at a steam pressure of 60 lbs. per square inch and supplied with all fittings including stop valves also one gun metal self starting injector (Gresham and Craven's patent,) diamer of cylinder 9 inches stroke 10 inches, diameter of boiler 38 inches, height 84 in.						*For supplying water for use of locomotives from wells 100 feet deep.*
87/341 29-10-98		6 H. P.	82	0	0	Each	North Western.	
		8 H. P.	99	10	0			
84/170 9-7-98	Colliery plant ...	Blocks, iron, snatch, 10″ sheave, required for a working load of not less than 5 tons, fitted with hooks.	2	4	0	Each	Umaria Colliery.	
83/424 27-6-98		Clips for Fowler's patent clip pulleys, suitable for ropes 3½″ to 4½″ circumference.	7	5	0	Set	Bhaganwalla Colliery.	
84/92 4-7-98		Columns for 6″ × 9″ double ram pump, consisting of 2 columns, 4 valves and seats, 4 valve doors, with wrought iron strops and 2 cross pipes.	60	0	0	Each	Umaria Colliery.	
		Columns for 9″ × 12½″ double ram pump consisting of 2 columns, 4 valves and seats, 4 valve doors, with wrought iron strops and 2 cross pipes.	100	0	0	„		
83/349 24-6-98		Elliot's patent self lubricating pedestals with felt in wells, for pit tubs, to suit wheels and axles.	0	5	6	Set	Warora Colliery.	
84/230 14-7-98		Rope, wire, steel, Lang's lay, 3″ circumference—						
		Coil of 600 fathoms for lower incline	2	9	0	Cwt.	Dandot Colliery.	For particulars of rope see appendix A.
		Coil of 252 fathoms for middle incline	2	6	0	„		
		Coil of 252 fathoms for upper incline	2	9	0	„		
		Coil of 200 fathoms 1½″ circumference	2	18	0	„	Bhaganwalla Colliery.	
87/153 15-10-98		Wire steel, plough, Lang's patent, ⅛″ diameter, in 500 feet lengths.	13	12	6	Total	Umaria Colliery ...	For particulars of rope see Appendix B.
		Wheels and axles, cast steel, for coal tubs	0	8	0	Pair	Umaria Colliery.	
84/110 5-7-98		Wheels and axles for mining wagons	0	7	3	Pair	Warora Colliery.	

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

Contracted for in 1898.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	For what railway.	Remarks.
84/93 — 4-7-98	Forges ...	Rivetters, circular, wrought iron, 22″, fitted with protected leather bellows, pattern No. 205 A.	3	6	8	Each	Eastern Bengal.	
84/231 — 14-7-98	Hoists ...	Steam, to lift 5 tons direct off barrel, for use with steel wire rope, 3½″ circumference, mounted on W. I. carriages, with wheels. *Each hoist is to have a winding barrel capable of taking 250 feet of 3½″ circumference steel wire rope, without overlap.*	355	0	0	„	Godavari Bridge.	
84/405 — 23-7-98	Jacks ...	Screw, Haley's pattern, traversing, to lift 20 tons, with ratchets complete.	14	0	0	„	Eastern Bengal.	
86/199 — 16-9-98		Screw, traversing, with ratchets, levers, steel cylinders and gun metal nuts, 20 tons capacity.	7	6	3	„	E. B. and North Western.	Average.
85/12 — 4-8-98		With levers for 50 lb. steel rails, diameter of screw 2½″, span 20″.	2	17	6	„	Eastern Bengal.	
		With levers for 73 lb. steel rails, diameter of screw 3″, span 24″	4	5	6	„	Eastern Bengal.	
85/399 — 27-8-98	Jim crows ...	With 3″ screw and levers complete, for 68 lbs. rails, double headed.	3	10	0	„	North Western.	
87/215 — 21-10-98		To bend 75 lb. f. f. rails, diameter of screw 2¾″, span 24″ ...	3	17	6	Each	East Coast.	
		For 50 lb. steel rails f. f., diameter of screw 2½″ and span 24″.	2	16	0	„	Eastern Bengal.	
84/476 — 27-7-98	Machine (double) brickmoulding and pressing.	Clayton and Co's self feeding and discharging double brick moulding and pressing machine provided with all necessary gearing and fast and loose pulleys, mounted on iron bed plate complete, capacity 1,000 brick, per hours. Moulds 10″ × 5″ × 3″.	180	0	0	„	Eastern Bengal.	
		Elevator for above	30	0	0	„	Eastern Bengal.	
87/72 — 10-10-98	Presses ...	Rail straightening with dies complete, suitable for rails, f. f. 50 lbs. per yard.	23	17	6	Each.	Eastern Bengal.	
87/159 — 17-10-98		Rail straightening, for mounting on trolly, for 75 lb. f. f. rails.	23	2	6	„	Hurdwar Dehra.	
85/129 — 15-8-98	Pumps ...	Pulsometer, No. 7 complete, each with foot and back pressure valves, 9 feet suction pipe, 60 feet delivery pipe, and 80 feet special steam hose, &c., &c.	115	3	9	Each	Godaveri Bridge.	
86/328 — 30-9-98		Double cylinder, hand power, capable of delivering 1,000 gallons of water per hour, complete with suction and delivery pipes, &c.	29	5	0	„	East Coast and Ghaziabad Moradabad.	
79/282 — 22-2-98		Double cylinder, hand power, capable of delivering 1,000 gallons of water per hour to a height of 50 feet above the source of supply at a speed of 30 strokes per minute, complete with suction and delivery piping	26	2	6	„	North-Western.	
85/83 — 8-3-98		Double cylinder, hand power, to lift to a height of 70 feet, 1,000 gallons per hour, supplied with 70 feet of pipe and 3 bends, complete with suction and delivery pipes, &c.	29	9	8	„	Shadipalli Balotra.	
83/336 — 24-6-98		Tangyes Horizontal steam, special, capable of delivering 3,500 gallons of water per hour, 300 feet above the source of supply with a boiler pressure of 60 lbs. per square inch, diameter of cylinder 9″ and 12″ stroke.	50	0	0	„	North Western.	
85/129 — 15-8-98		*Pulsometer—Spare parts of—* Comprising neck and ball, set of rubbers for all valves including foot valve, and a set of gun metal air valves.	6	6	0	Set	Godaveri Bridge.	

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

Contracted for in 1898.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	For what railway.	Remarks.
86/82 5-9-98	Ramps ...	Double, cast steel, for 73 lbs. double headed rails, for re-railing wagons, etc., capable of carrying a load of not less than 5 tons. (Approximate weight 110 lbs. each.)	3	0	0	Set	Eastern Bengal.	
		Double, cast steel, for 73 lbs. double headed rails, for re-railing locomotives, etc., capable of carrying a load of not less than 10 tons. (Approximate weight 156 lbs. each.)	4	0	0	"		
87/205 20-10-98	Pneumatic Riveting Plant.	Boyer's pneumatic rivetting plant for girders (No. 4) ...	896	0	0	Total	Godaveri Bridge ...	For particulars see Appendix C.
		Caulking Tools (Boyer's) 4 sets	128	10	0	"		
		Air compresser (2)	396	0	0	"		
		Packing and delivery	68	18	6	"		
		Drawings and Photos	10	0	0	"		
		Total ...	1,499	8	6	"		
86/224 17-9-98	Rivetting machine	Hydraulic, Fielding type, to hang, having a distance of 4′ 6″ between the jaws and a reach of 3′ 6″ from inner edge of frame to centre of ram. Suitable for rivetting the boom of 350 feet girders of Indus Bridge at Kotree and for closing 1″ diameter steel rivets; fitted with hangers complete.	155	0	0	Each	Indus Bridge Works.	
84/506 30-7-98	Ropes ...	Wire steel galvanized 3½″ circumference, special extra flexible, six strand each 37 wires, in lengths of 450 feet. Breaking strain 36 tons.	2	0	0	Cwt.	Godaveri Bridge ...	Extra for thimbles and splice and packing, etc.
87/267 25-10-98	Saws ...	Rail cutting (capable of cutting 75 lb. section of f. f. steel rails) with attachment for drilling holes and six drills.	36	10	0	Each	Hurdwar Dehra.	
		Spare saws for above	1	1	0	"		
87/66 10-10-98	Tools ...	Well boring, improved, *vide* Appendix D.	934	7	4	Set	East Coast.	
87/70 10-10-98	Wheels and Axles	Wrought iron 5′ 6″ gauge for trollies, light, riding ...	6	0	0	Pair	East Coast.	
		Do. do. do. do. ...	5	0	0	"	North Western.	
85/528 31-8-98		Do. do. do. do. for heavy trollies for Permanent-way Inspectors.	6	10	0	"	Oudh and Rohilkhund.	

Appendix A.

Particulars of Rope wire, steel, vide *Contract No.* $\frac{84}{230}$, *dated 14th July 1898, for the Dandot and Bhaganwalla Collieries.*

	Middle incline.	Upper and lower Incline.	Bhaganwalla Colliery.
Circumference of rope in inches	3″	3″	1½″
Number of strands	6	6	6
Number of wires in each strand	7	7 outside, 4 inside.	7
Diameter of each wire in inches	·105	·098	·048
Breaking strain of ditto in lbs.	2,100	1,850	400
Number of twists each wire will stand without breaking, in a length of 6 inches.	21 and up	24 and up.	40 and up.
Description of core in strand	One wire	4 wires ·057 = 520 lbs. = 45 tons.	One wire.
Description of core in rope	19 wires annealed.	19 wires annealed.	Hemp.
Number of twists per foot of strand	3	3	8
Number of twists per foot of finished rope	1½	1½	3
Breaking strain of each strand in lbs.	14,700	15,030	2,800
Weight per fathom of rope in lbs.	11	11	2
Diameter of drum round which the rope will safely work in inches.	72″	66″	24″
Diameter of drum or reel on which the rope will be coiled for shipment.	48″	48″	24″

Appendix B.

Particulars of Rope wire, steel, vide *Contract No. 87—153, dated 15th October 1898, for the Umaria Colliery.*

Description.	Feet.
Circumference of rope in inches	2¾″
Number of strands	6
Number of wires in each strand	7
Diameter of each wire in inches	·095
Breaking strain of ditto in lbs.	·1430
Number of twists each wire will stand without breaking, in a length of 6 inches	18
Description of core in strand	Wire.
Description of core in rope	Hemp.
Number of twists per foot of strand	2½
Number of twists per foot of finished rope	1½
Breaking strain of each strand in lbs.	8,175
Weight per fathom of rope in lbs.	7½
Diameter of drum round which the rope will safely work in inches	...
Diameter of drum or reel on which the rope will be coiled for shipment	...

Appendix C.

Particulars of pneumatic rivetting plant as per Contract No. $\frac{87}{205}$, *dated 20th October 1898, for Godaveri Bridge.*

Item No.	Description.	No. required.	Total. £.	s.	d.
1	Boyer pneumatic rivetters "000" size, with 48″ gap frames and one pair of snaps each, also one spare valve, capable of closing 1″ hot rivets with 100 lbs. air pressure.	4	208	0	0
2	Spare valves and pistons	4	12	0	0
3	Spare snaps, pairs	12	15	0	0
4	50 ft. lengths of 1″ armoured I. R. hose, 4 ply, tested to 200 lbs. per square inch, with union nut and nipple connections at each end, bound with copper wire.	4	29	0	0
5	Iron tube—see alternative at end	...	54	0	0
6	Air cock, 1″ gun metal	20	20	0	0
7	50 ft. lengths of 1½″ armoured I. R. hose, 4 ply, tested to 200 lbs. per square inch, with union nut and nipple connections at each end, bound with copper wire, suitable to pipe with 1½″ bore.	10	85	0	0
8	Air receiver, 8 ft. high by 42″ diameter, constructed of ⅜″ wrought iron plates, tested to a pressure of 200 lbs. per square inch, fitted with safety valve, pressure gauge and drip cock.	1	25	0	0
	Total for one set	...	448	0	0
	Total for two sets	...	896	0	0
	Particulars of steam-driven air compressor as per specification.				
9	Duplex steam-driven air compressor with compound air cylinders and inter-cooler in base, having a theoretical capacity of 80 cubic feet of free air per minute and designed to compress to 100 lbs. per square inch.	1	198	0	0
	Particulars of caulking hammers.				
10	Boyer pneumatic caulking hammers, No. 2 size, weighing 8¼ lbs. each, with one spare valve and 2 blank caulking tools.	4	108	0	0
11	Spare valves, pistons and sockets for caulking hammers.	4	10	0	0
12	Air cocks and connections	4	2	0	0
13	Hammer connections	4	1	0	0
14	50 ft. lengths of armoured I. R. hose, ⅜″ inside diameter.	4	7	10	0
	Total	...	£1,378	10	0
15	Packing and carriage	...	68	18	6
16	Drawings, photographs, &c.	...	10	0	0
	Total	...	£1,457	8	6

Alternative quotation for wrought iron tubes in the place of solid drawn steel.

Wrought iron steam tubes 1½″ bore, screwed and socketed and tested to 250 lbs. per square inch.	2,200	ft.	
Branch connections, iron, screwed and socketed for 1½″ and 1″ tubes	20	£54	0 0

Appendix D.

Particulars of one set Tools well boring, improved, vide *Contract No.* $\frac{87}{66}$, *dated 10th October 1898, for the East Coast Railway.*

Indent No. of Item.	Description of Stores.	Quantity required.	Cost f. o. b. Port of London, Liverpool or Birkenhead. £	s.	d.
3	Tools, well boring, improved—as follows :	Set 1			
	(1) 9¼″ clay auger	...	6	10	0
	(1) 7¼″ „ „	...	4	15	0
	(1) 6¼″ „ „	...	4	5	0
	(1) 5¼″ „ „	...	3	5	0
	(1) 7″ shoe nose shell fitted with catches for recovering broken tools.	...	9	0	0
	(1) 6″ ditto ...	...	7	0	0
	(1) 5″ ditto ...	...	5	0	0
	(2) 9¼″ tee chisels	...	12	0	0
	(2) 8¼″ „ „	...	10	0	0
	(2) 6¾″ „ „	...	8	0	0
	(2) 5¾″ „ „	...	6	0	0
	(1) 9¼″ Flat chisels	...	4	10	0
	(1) 8¼″ „ „	...	4	0	0
	(1) 6¾″ „ „	...	3	10	0
	(1) 5¾″ „ „	...	3	0	0
	One pair of rod tillers with spare screws ...	...	1	15	0
	One auger board	...	1	10	0
	(2) 1¼″ hand dogs	...	0	15	0
	(2) 1¼″ lifting „	...	2	5	0
	(2) 1½″ hand „	...	0	17	0
	(2) 1½″ lifting „	...	2	12	6
	(1) spring hook	...	3	0	0
	40 feet of 6½″ rope slings and punching rope ...	...	6	0	0
	(1) Auger cleaner	...	0	10	0
	(10) 10 feet 1½″ boring rods	...	15	0	0
	(19) 10″ 1¼ „ „	...	19	0	0
	(1) 5″ 1¼ „ „	...	1	0	0
	(1) 5″ 1¼ swivel rod	...	1	0	0
	Carried over	...	145	19	6

Appendix D—*concluded.*

Indent No. of Item.	Description of Stores.	Quantity required.	Cost f. o. b. Port of London, Liverpool or Birkenhead. £	s.	d.
	Brought forward		145	19	6
16	Improved steel tubes fitted with steel sockets, 8½″ internal diameter and appliances for fixing tubes consisting of the following :—	Feet 950	570	0	0
	8½″ steel shoe		2	10	0
	2 pairs 8½″ pipe clams each		7	0	0
	2 „ „ „ tillers		7	0	0
	8½″ driving flange		4	17	6
	8½″ pipe hanger		1	17	6
	8½″ cast iron flange		1	4	0
	1 set of cutting springs		4	17	6
	1 spare blade for „		3	10	0
	1 circular chisel		10	0	0
	1 8½″ driving cap		1	0	0
17	Tube well driving, 500 lbs. ram sheers and guide	No. 1	6	0	0
18	7¼″ Improved deep well pump, capable of drawing water from a depth of 100 feet each consisting of—	„ 3	.....		
	(1) 6″ diameter gunmetal pump barrel and bucket and valve. ...		15	0	0
	70 feet of 7¼″ internal diameter steel tubes fitted with steel sockets and 30 feet of 2″ suction. ...		38	0	0
	(1) wrought iron deep well pump head with long lever handle and counterbalance weights. ...		8	0	0
	70 feet of 1″ pump rods with guides cotter joints, and cotter pins. ...		9	0	0
	(1) 8½″ pipe hanger		1	17	6
	(2) pairs 8½″ pipe clams		7	0	0
	(2) „ 4″ „ „		1	15	0
	(2) „ 1¼″ strong rod		3	0	0
	Packing and delivery		84	18	10
	Total		934	7	4

[*For General Distribution.*]

Circular No. 6.

FROM

THE DIRECTOR OF RAILWAY CONSTRUCTION,

TO

THE MANAGER, NORTH WESTERN RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND RAILWAY.
THE MANAGER, EASTERN BENGAL STATE RAILWAY.
THE MANAGER, EAST COAST STATE RAILWAY.
THE ENGINEER-IN-CHIEF, INDUS BRIDGE WORKS, AND BRITISH SECTION, SHAD PALLI-BALOTRA RAILWAY.
THE ENGINEER-IN-CHIEF, MARI ATTOCK RAILWAY.
THE ENGINEER-IN-CHIEF, GODAVARI BRIDGE WORKS.
THE ENGINEER-IN-CHIEF, HARDWAR-DEHRA RAILWAY.
THE ENGINEER-IN-CHIEF, GHAZIABAD-MORADABAD RAILWAY.
THE PORT STOREKEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Rate List, Class B.—"Engineers' Plant" (excluding Petty Tools) for 1898.

Simla, the 2nd May 1899.

SIR,

I have the honour to forward, for information and guidance, a printed statement, showing the actual English rates *free on board* in England for Class B Stores, "Engineers' Plant" (excluding petty Tools), contracted for by the Stores Department of the India Office during 1898.

2. A table giving the average rates of sea-freight for Class B Stores imported from England to the several ports in India for State Railways during 1898 is prefixed to the rate list.

3. In order to arrive at the total cost of Class B 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,

C. W. HODSON,
Director.

Documents accompanying.

1. Statement showing the average rate per ton for entire sea-freight on Class B Stores imported from England to the several ports during 1898.
2. Rate List, Class B,—"Engineers' Plant" (excluding Petty Tools), 1898.

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

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, the Punjab and Burma, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces and Assam, Public Works Department.
The Secretaries to the Residents at Hyderabad and in Mysore, Public Works Department.
The Secretaries to the 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.

G. Lubbock Lieut RE
for Director.
7/99

To

THE Secretary to the Govt of Madras
Public Works Department

(Spare copies will follow)

G. C. Press, Simla.—No. 2006 P. W. D.—1-6-99.—43.