Public Works (1896) Department.

G.O., No. 17424

Dated 10 June 96

[Despatch Abstract.]

Rabbit Class B — "Engineers Plant"
Circular from the Director General of Pub
forwarding a — Communicated to Officers
of the Public Works Department.

[P. W. 125.
1,000—5-9-96.]

[For General Distribution.]

ACCOUNT No. 4648

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

60 S.C
Encls 1 (6 pl.)

Colonel, R.E.,
Director General of Railways.

Dis: 20-5-96
2036 22.5.96

To the Secy: to the Govt of Madras
Public Works Dept.

No 1742 W, dt 10 June 1896.

Communicated to officers of the P.W. dept.

27/5/96

No. 2103 W/22-5-96

Ch. 27.5.96.

Ch. & Ind
Supdg Engrs 4 & 7 Jr Engrs Gr V
C.A. & Worl. with 15C
Engrs Gr I with 15C
Secretary to Govt

OL 2124 21/5

G. C. Press, Simla.—No. 1536 P. W. D.—9-5-96.—48.

DESPATCH
11 JUN. 96

[*For General Distribution.*]

Circular No. 5.

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 STATE RAILWAY.
THE ENGINEER-IN-CHIEF, MARI-ATTOCK RAILWAY AND GRADIENT IMPROVEMENT WORKS, (NORTH WESTERN RAILWAY).
THE ENGINEER-IN-CHIEF, MUSHKAF-BOLAN RAILWAY.
THE ENGINEER-IN-CHIEF, KOTRI-ROHRI RAILWAY.
THE ENGINEER-IN-CHIEF, BEZWADA-MADRAS RAILWAY.
THE RAI BARELI-BENARES EXTENSION RAILWAY SURVEY.
THE PORT STOREKEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Rate List, Class B.—"Engineers' Plant" (excluding Petty Tools) for 1895.

Simla, the 2nd May 1896.

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 1895.

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 1895, is prefixed to the rate list.

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

T. GRACEY, Colonel, R.E.,

Director General of Railways.

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 1895.

2. Rate List, Class B.—"Engineers' Plant" (excluding petty tools), for 1895.

* 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. 5 of 1895.

RATE LIST.

CLASS B.

"ENGINEERS' PLANT" (EXCLUDING PETTY TOOLS) FOR 1895.

G. C. Press, Simla.—No. 1536 P. W. D.—8-5-96.—48.

Enclosure to Director General of Railways' Circular No. 5, dated the 2nd May 1896.

Statement showing the average rate per ton for entire sea-freight on Class B Stores imported from England to the several ports during 1895.

Class of Stores.	Kurrachee.	Bombay.	Coconada, Vizagapatam or Madras.	Calcutta.	Rangoon.	Remarks.
	s. *d.*	*s.* *d.*	*s.* *d.*	*s.* *d.*	*s.* *d.*	
Class B.—"Engineers' Plant" (excluding Petty Tools).	12 6	.....	26 3	21 3	22 6	

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

Contracted for in 1895.

Contract number and date.		Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
				£ s. d.			
46/227	16-5-95	Buffers	Spring, complete, with holding down bolts, &c.	24 18 0	Each.	North-Western ...	For new colliery at Bhaganwala.
49/228	20-8-95	Cages	Pit, with chains, compensating spring, hinged gable roof, rails for tubes, catch bars and guide checks, &c., &c., complete ...	45 0 0	Each.	Umaria Colliery.	
49/228	20-8-95	Chucks	Guide, cast steel, for rail guides, with bolt holes drilled and ready for fixing to the pit cages	32 15 0	Set.	Umaria Colliery.	
47/18	6-6-95	Condensers ...	Floyd's patent, with connecting pipes and blow through valve for Floyds-Tangye's patent "special" pumps, 12" steam cylinder, 6" water cylinder.	11 5 0	Each.	Umaria Colliery.	

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
51/175 — 17-10-95	Dredgers ...	Sand pump, "Invincible," vertical, direct acting, centrifugal.	981 17 0	Each.	Eastern Bengal State.	
46/227 — 16-5-95	Drums ...	Clip, Fowler's patent, 8 ft. diar. complete with brakes, bed plates, pedestals, all holding down bolts and levers, &c., &c.	220 13 0	Each.	North-Western ...	(Bhaganwala Colliery.)
		Do. do. 4 ft. diar. with axle, pedestals, brake and a spare set of clips.	50 5 4	Each.		
	Drum—spare parts of—	Pulleys, guide, 6 ft. diameter	17 8 6	Each.	North Western ...	(Bhaganwala Colliery.)
		Pedestals, $4\frac{1}{2}''$ × $8\frac{1}{2}''$ complete for 6 ft. guide pulleys	7 13 $4\frac{1}{2}$	,,		
		Pedestals, $4\frac{1}{2}''$ × 7″ complete for 6 ft. guide pulleys, ...	6 10 0	,,		
		Sheaves, friction, 16″ diameter complete, with gun metal bearings in c. i. boxes ...	2 6 9	,,		

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
50/6 — 10-9-95	Fans ...	"Capell's," 6 ft. diameter × 3′ 6″ wide capable of giving a volume of 3,000 cubic feet of air per minute with a water gauge of about 3″.	125 0 0	Each.	North Western ...	Khost Colliery.
		"Capell's" blast, hand power, for mines, capable of giving a volume of 1,400 cubic feet of air per minute	18 15 6	,,		
50/38 — 5-9-95	Fire box ...	For 30 horse power multitubular boilers ...	64 0 0	Each.	Umaria Colliery.	
		For 20 horse power multitubular boilers ...	55 0 0	,,		
42/254 — 30-1-95	Injectors ...	Gresham's patent, for pumping engine 4 M. M.	4 5 6	Each.	Eastern Bengal.	
		Gresham's patent, for pumping engine 3 M. M.	3 6 6	,,		
43/19 — 2-2-95	Jacks ...	Screw, traversing, each with ratchets, lever, steel cylinders and gun metal nuts, to lift 20 tons	7 9 0	Each.	Eastern Bengal.	
		Screw, traversing, each with ratchets, lever, steel cylinders and gun metal nuts, to lift 10 tons	4 5 0	,,		

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
48/25, 1-7-95	Jacks	Traversing, Haley's patent, with ratchet and handles complete, to lift 10 tons...	5 8 0	Each.	Burma.	
		Traversing, Haley's patent, with ratchet and handles complete, to lift 5 tons ...	2 16 0	"		
		Screw, bottle, with bars, 16" height, to lift 5 tons	1 12 0	"		
49/141, 10-8-95	Jim crows	With levers, complete, for 75 lbs. rails, steel flat footed	3 10 0	Each.	North-Western.	
		With levers, complete, for 73 lbs. steel, bull headed				
		With levers, complete, for 68 lbs. rails, double headed				
48/241, 15-7-95		Diameter of screw $2\frac{3}{4}$" with one steel bar $1\frac{1}{2}$" diameter × 6 feet long to each, for 75 lbs. f. f. steel rails	3 10 0	"	Oudh and Rohilkhand.	
		Spare bars for above	0 5 0	"		

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
49/228, 20-8-95	Keeps	Or cage supports, complete	32 15 0	Each.	Umaria Colliery.	
48/473, 26-7-95	Lifts	Rail crossing and general (Golightly's patent)	6 10 0	Each.	North-Western.	
48/64, 3-7-95	Machines	Rail bending, "Vojæcks" patent, suitable for bending rails of Vignoles section, 18 lbs. per yard	10 10 0	Each.	Umaria Colliery.	
43/22, 2-2-95	Oars	Ashwood, 12 feet long	0 5 6	Each.	Eastern Bengal.	
		" 14 "	0 6 5	"		

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
49/314 24-8-94	Pipes ...	W. I. lapwelded, black, for steam, in lengths of 12′, screwed at both ends but without sockets :—				
		2″ bore	0 6 3	Length.		
		1″ „	0 3 3	„		
		¾″ „	0 2 3	„		
		Flanges for above and for bends :—				
		2″	0 0 9	Each.	Umaria Colliery.	
		1″	0 0 4¾	„		
		¾″	0 0 4½	„		
		Flanges for bends 4″	0 3 6	„		
		In pieces for above flanged 4″	0 18 0	„		
		„ „ „ 2″	0 3 4	„		

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on Board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
49/314 24-8-94	Pipes ...	Quarter bends for steam pipes :—				
		4″	0 8 0	Each.	Umaria Colliery.	
		2″	0 1 3	„		
		1″	0 0 4½	„		
		¾″	0 0 3¼	„		
52/131 9-11-95	Pumps	Tangyes horizontal "special" steam direct acting, capable of delivering 4,500 gallons of water per hour 50 feet above source of supply from a depth of 20 feet below the pump cylinder at a pressure of 80 lbs. per square inch to have a steam cylinder 6 in. diametre and brass lined wate cylinder 6 in. diametre × 12in. length of stroke, mounted on a cast iron base plate with a 4 N. H. P. steel vertical boiler.	420 0 0	Each.	Frontier Ry. reserve.	

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on Board. Amount.	Unit.	For what railway.	Remarks.
			£. s. d.			
42/107 — 11-1-95	Pumps—(*contd*).	"Denaby" sinking pumps 22" steam cylinder, capable of delivering 15,500 gallons of water per hour to 300 feet height with 50 lbs. steam pressure; boilers on the surface with the necessary length of delivery pipes, steam pipes suspending wire rope for shafts, also sliding suction, rise 10 feet lengths of "Splincter grip steam hose of diar. suitable for steam pipes, blocks to lower pumps etc., etc.	546 0 0	Each.	Umaria Colliery.	
49/227 — 20-8-95	Pumps, feed ...	For multitubular boilers, similar to that supplied on contract 38—257 of 18th September 1894, and supplied with the following duplicate parts, *viz.* :—4 sets of main shaft brasses, 4 sets of bearing blocks for crank pins, 4 sets of piston rings, 1 set of gunmetal suction and delivery valves with seats.	84 10 0	Each.	Umaria Colliery.	
		Spare parts of—				
49/160 — 13-8-95	Pumps	Seatings, guttapercha for pump valves ...	2 5 0	doz.	Umaria Colliery.	

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on Board. Amount.	Unit.	For what railway.	Remarks.
			£. s. d.			
46/485 — 31-5-95	Ramps	Double, for 73 lbs. D. H. rails.—Each set to consist of 2 double ramps.	3 19 4½	Set.	Eastern Bengal.	
45/294 — 27-4-95	Ropes	Wire, steel, "Bullivant's" flexible, 2¼" circumference in one coil of 240 fathoms, suitable for working on a drum 2½' diar.	2 5 0	Cwt.	North-Western	Plus £ 10 for packing two coils.
42/10 — 2-1-95		Do. do. 4½" circumference in coils of 530 fathoms, 19 lbs. per fathom.				
49/274 — 23-8-95		Wire, steel plough, "Lang's" patent, ¾ in. diameter in 340 feet lengths, suitable for winding, diameter of drum 4 feet, diameter of Pulleys 8 feet	3 6 8	Length.	Umaria Colliery.	
		Ditto do. ⅝ in. in lengths of 1,500 feet, suitable for hauling, diameter of drum 3 feet.	11 0 0	"		
49/275 — 23-8-95		Wire, steel, plough, Lang's patent, ⅞ in. diameter in 300 feet lengths, similar to that supplied on contract 15—263 of 25th October 1892. Each rope to be capped and socketed at both ends.	8 14 0	Length.	Umaria Colliery.	

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£. s. d.			
47/490 — 20-6-95	Ropes—*contd.*	Wire, "Cradock's" plough steel, Langs' patent 360 a / 2½" circumference, in lengths of 400 feet	2 18 0	Cwt.	Warora Colliery.	
42/245 — 28-1-95	Shackles ...	Twilled for 4½ in. rope, complete with chains and hooks.	9 10 0	Each.	North-Western ...	(Bhaganwala Colliery.)
45/199 — 20-4-95	Screens ...	Revolving, circular, with shaft, bevel wheel and pinion complete, for Robinson's coal washing apparatus.	45 0 0	Each.	Umaria Colliery.	
43/68 — 7-2-95	Trollies ...	Light, 2' 6" gauge, with teak under frames	14 13 0	Each.	North-Western ...	(Bhaganwala Colliery.)
45/300 — 30-4-95	Taps ...	Taper, for water space stags of fire boxes ...	1 7 6	Each.	Umaria Colliery ...	(Approximately.)
		Do. do. 1" diameter ...				
52/149 — 12-11-95	Tubes ...	Brass, in lengths of 6', 2½" bore ...	50 12 6	Ton.	North-Western ...	For condensers of steamers.

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
45/253 — 24-4-95	Tubes—*contd.* ...	Iron, boiler, 7' 7" long × 2¾" outside diameter and 11 W. G., for portable engine 10 H. P.	0 2 6	Each.	Eastern Bengal.	
		Iron, boiler, 5' 10" long × 2¾" outside diameter and 11 W. G., for portable engine 5 H. P.	0 1 11	„		
45/300 — 30-4-95	Tubes and ferrules	Spare sets for 30 H. P. multitubular boilers	25 15 0	Set.	Umaria Colliery.	
		Do. for multitubular boilers ...	21 0 0	„		
45/300 — 30-4-95	Valves ...	Relief for feed pump for boilers ...	4 5 0	Each.	Umaria Colliery.	
43/68 — 7-2-95	Wagons ...	Steel, colliery, 2' 6" gauge, with wheels and axles, axle-boxes, pedestals and springs, complete	17 10 0	Each.	North-Western.	
	Wheels ...	9" diar. with plain axles, 2 wheels and 1 axle to the pair	0 10 0	Pair.	North-Western.	

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
43/68 — 7-2-95	Wheels and axles ...	With outside bearings, wheels 18″ diameter, each pair complete with axle boxes, pedestals and springs—2 wheels, 1 axle, 2 axle boxes, 2 bushes and 2 springs to the pair ...	3 0 0	Pair.	North-Western	(Bhaganwala Colliery.)
49/191 — 16-8-95		(4 spoke) for light trollies for Engineers, 5′ 6″ gauge	2 17 0	Pair.	North Western	
		(6 spoke) for heavy trollies for permanent-way inspectors, 5′ 6″ gauge	3 4 6	,,		
48/155 — 9-7-95		For mining wagons	0 10 0	,,	Warora Colliery.	
50/110 — 12-9-95		For pit tubs	0 9 2	,,	Umaria Colliery.	
49/169 — 14-8-95	Wheel barrows ...	As supplied on contract 3—240 of 19th October 1891	1 16 6	Each.	Umaria Colliery.	

60 SC
06 C 66 8/96

Circular No. 5.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

14 copies
& circular
5/96

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, MARI-ATTOCK RAILWAY AND GRADIENT IMPROVEMENT WORKS, (NORTH WESTERN RAILWAY).
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THE ENGINEER-IN-CHIEF, RAI BARELI-BENARES EXTENSION RAILWAY SURVEY.
THE PORT STOREKEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Rate List, Class B.—"Engineers' Plant" (excluding Petty Tools) for 1895.

Simla, the 2nd May 1896.

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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 1895, is prefixed to the rate list.

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Director General of Railways.

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The Secretaries to the Chief Commissioners of the Central Provinces, Burma, 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.
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T. GRACEY, Colonel, R.E.,
Director General of Railways.

To
THE

G. C. Press, Simla.—No. 1536 P. W. D.—19-5-96.—885.

Enclosure to Director General of Railways' Circular No. 5 of 1896.

RATE LIST.

CLASS B.

ENGINEERS' PLANT" (EXCLUDING PETTY TOOLS)

FOR 1895.

G. C. Press, Simla.—No. 1536 P. W. D.—21-5-96.—885.

Copy forwarded to the Secretaries to the Governments of Madras, Bombay, Bengal, the

Enclosure to Director General of Railways' Circular No. 5, dated the 2nd May 1896.

Statement showing the average rate per ton for entire sea-freight on Class B Stores imported from England to the several ports during 1895.

Class of Stores.	Kurrachee.	Bombay.	Coconada, Vizagapatam or Madras.	Calcutta.	Rangoon.	Remarks.
	s. *d.*	*s.* *d.*	*s.* *d.*	*s.* *d.*	*s.* *d.*	
Class B.—"Engineers' Plant" (excluding Petty Tools).	12 6	.....	26 3	21 3	22 6	

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
51/175 — 17-10-95	**Dredgers** ...	Sand pump, "Invincible," vertical, direct acting, centrifugal.	981 17 0	Each.	Eastern Bengal State.	
46/227 — 16-5-95	**Drums** ...	Clip, Fowler's patent, 8 ft. diar. complete with brakes, bed plates, pedestals, all holding down bolts and levers, &c., &c.	220 13 0	Each.	North-Western ...	(Bhaganwala Colliery.)
		Do. do. 4 ft. diar. with axle, pedestals, brake and a spare set of clips.	50 5 4	Each.		
	Drum—spare parts of—	Pulleys, guide, 6 ft. diameter	17 8 6	Each.	North-Western ...	(Bhaganwala Colliery.)
		Pedestals, $4\frac{1}{2}'' \times 8\frac{1}{2}''$ complete for 6 ft. guide pulleys	7 13 $4\frac{1}{2}$	,,		
		Pedestals, $4\frac{1}{2}'' \times 7''$ complete for 6 ft. guide pulleys, ...	6 10 0	,,		
		Sheaves, friction, 16" diameter complete, with gun metal bearings in c. i. boxes ...	2 6 9	,,		

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
50/6 — 10-9-95	**Fans** ...	"Capell's," 6 ft. diameter × 3' 6" wide capable of giving a volume of 3,000 cubic feet of air per minute with a water gauge of about 3".	125 0 0	Each.	North-Western ...	Khost Colliery.
		"Capell's" blast, hand power, for mines, capable of giving a volume of 1,400 cubic feet of air per minute	18 15 6	,,		
50/38 — 5-9-95	**Fire box** ...	For 30 horse power multitubular boilers ...	64 0 0	Each.	Umaria Colliery.	
		For 20 horse power multitubular boilers ...	55 0 0	,,		
42/254 — 30-1-95	**Injectors** ...	Gresham's patent, for pumping engine 4 M. M.	4 5 6	Each.	Eastern Bengal.	
		Gresham's patent, for pumping engine 3 M. M.	3 6 6	,,		
43/19 — 2-2-95	**Jacks** ...	Screw, traversing, each with ratchets, lever, steel cylinders and gun metal nuts, to lift 20 tons	7 9 0	Each.	Eastern Bengal.	
		Screw, traversing, each with ratchets, lever, steel cylinders and gun metal nuts, to lift 10 tons	4 5 0	,,		

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
		W. I. lapwelded, black, for steam, in lengths of 12', screwed at both ends but without sockets:—				
		2" bore	0 6 3	Length.		
		1" "	0 3 3	"		
		¾" "	0 2 3	"		
		Flanges for above and for bends:—				
49/314	24-8-94	Pipes ... ... 2"	0 0 9	Each.	Umaria Colliery.	
		1"	0 0 4¾	"		
		¾"	0 0 4½	"		
		Flanges for bends 4"	0 3 6	"		
		In pieces for above flanged 4"	0 18 0	"		
		" " " 2"	0 3 4	"		

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
		Quarter bends for steam pipes:—				
49/314	24-8-94	Pipes ... 4"	0 8 0	Each.	Umaria Colliery.	
		2"	0 1 3	"		
		1"	0 0 4½	"		
		¾"	0 0 3¼	"		
52/131	9-11-95	Pumps ... ... Tangyes horizontal "special" steam direct acting, capable of delivering 4,500 gallons of water per hour 50 feet above source of supply from a depth of 20 feet below the pump cylinder at a pressure of 80 lbs. per square inch to have a steam cylinder 6 in. diameter and brass lined water cylinder 6 in. diameter × 12in. length of stroke, mounted on a cast iron base plate with a 4 N. H. P. steel vertical boiler.	420 0 0	Each.	Frontier Ry. reserve.	

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£. s. d.			
42/107 — 11-1-95	Pumps—(*contd*).	"Denaby" sinking pumps 22" steam cylinder, capable of delivering 15,500 gallons of water per hour to 300 feet height with 50 lbs. steam pressure; boilers on the surface with the necessary length of delivery pipes, steam pipes suspending wire rope for shafts, also sliding suction, rise 10 feet lengths of "Splincter grip steam hose of diar. suitable for steam pipes, blocks to lower pumps, etc., etc.	546 0 0	Each.	Umaria Colliery.	
49/227 — 20-8-95	Pumps, feed ...	For multitubular boilers, similar to that supplied on contract 38—257 of 18th September 1894, and supplied with the following duplicate parts, *viz.* :—4 sets of main shaft brasses, 4 sets of bearing blocks for crank pins, 4 sets of piston rings, 1 set of gunmetal suction and delivery valves with seats.	84 10 0	Each.	Umaria Colliery.	
		Spare parts of—				
49/160 — 13-8-95	Pumps	Seatings, guttapercha for pump valves ...	2 5 0	doz.	Umaria Colliery.	

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£. s. d.			
46/485 — 31-5-95	Ramps	Double, for 73 lbs. D. H. rails.—Each set to consist of 2 double ramps.	3 19 4½	Set.	Eastern Bengal.	
45/294 — 27-4-95	Ropes	Wire, steel, "Bullivant's" flexible, 2¼" circumference in one coil of 240 fathoms, suitable for working on a drum 2½' diar.	2 5 0	Cwt.	North-Western	Plus £ 10 for packing two coils.
42/10 — 2-1-95		Do. do. 4½" circumference in coils of 530 fathoms, 19 lbs. per fathom.				
49/274 — 23-8-95		Wire, steel plough, "Lang's" patent, ¾ in. diameter in 340 feet lengths, suitable for winding, diameter of drum 4 feet, diameter of Pulleys 8 feet.	3 6 8	Length.	Umaria Colliery.	
		Ditto do. ⅝ in. in lengths of 1,500 feet, suitable for hauling, diameter of drum 3 feet.	11 0 0	,,		
49/275 — 23-8-95		Wire, steel, plough, Lang's patent, ⅞ in. diameter in 300 feet lengths, similar to that supplied on contract 15—263 of 25th October 1892. Each rope to be capped and socketed at both ends.	8 14 0	Length.	Umaria Colliery.	

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£. s. d.			
47/490 — 20-6-95	Ropes—*contd.*	Wire, "Cradock's" plough steel, Lang's patent, 2½" circumference, in lengths of 360 and 400 feet.	2 18 0	Cwt.	Warora Colliery.	
42/245 — 28-1-95	Shackles ...	Twilled for 4½ in. rope, complete with chains and hooks.	9 10 0	Each.	North-Western ...	(Bhaganwala Colliery.)
45/199 — 20-4-95	Screens ...	Revolving, circular, with shaft, bevel wheel and pinion complete, for Robinson's coal washing apparatus.	45 0 0	Each.	Umaria Colliery.	
43/68 — 7-2-95	Trollies ...	Light, 2' 6" gauge, with teak under frames	14 13 0	Each.	North-Western ...	(Bhaganwala Colliery.)
45/300 — 30-4-95	Taps ...	Taper, for water space stags of fire boxes ...	1 7 6	Each.	Umaria Colliery ...	(Approximately.)
		Do. do. 1" diameter ...				
52/149 — 12-11-95	Tubes ...	Brass in lengths of 6' 2½" bore ...	50 12 6	Ton.	North-Western ...	For condensers of steamers.

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			£ s. d.			
45/253 — 24-4-95	Tubes—*contd.* ...	Iron, boiler, 7' 7" long × 2¾" outside diameter and 11 W. G., for portable engine 10 H. P.	0 2 6	Each.	Eastern Bengal.	
		Iron, boiler, 5' 10" long × 2¾" outside diameter and 11 W. G., for portable engine 5 H. P.	0 1 11	„		
45/300 — 30-4-95	Tubes and ferrules	Spare sets for 30 H. P. multitubular boilers	25 15 0	Set.	Umaria Colliery.	
		Do. for multitubular boilers ...	21 0 0	„		
45/300 — 30-4-95	Valves ...	Relief for feed pump for boilers ...	4 5 0	Each.	Umaria Colliery.	
43/68 — 7-2-95	Wagons ...	Steel, colliery, 2' 6" gauge, with wheels and axles, axle-boxes, pedestals and springs, complete	17 10 0	Each.	North-Western.	
	Wheels ...	9" diar. with plain axles, 2 wheels and 1 axle to the pair	0 10 0	Pair.	North-Western.	

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

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			£ s. d.			
43/68 — 7-2-95	Wheels and axles ...	With outside bearings, wheels 18″ diameter, each pair complete with axle boxes, pedestals and springs—2 wheels, 1 axle, 2 axle boxes, 2 bushes and 2 springs to the pair ...	3 0 0	Pair.	North-Western	(Bhaganwala Colliery.)
49/191 — 16-8-95		(4 spoke) for light trollies for Engineers, 5′ 6″ gauge	2 17 0	Pair.	North-Western	
		(6 spoke) for heavy trollies for permanent-way inspectors, 5′ 6″ gauge	3 4 6	,,		
48/155 — 9-7-95		For mining wagons	0 10 0	,,	Warora Colliery.	
50/110 — 12-9-95		For pit tubs	0 9 2	,,	Umaria Colliery.	
49/169 — 14-8-95	Wheel barrows ...	As supplied on contract 3—240 of 19th October 1891	1 16 6	Each.	Umaria Colliery.	

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab Public Works Department.

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