



VICTORIA GOVERNMENT GAZETTE.

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No. 163]

THURSDAY, DECEMBER 18.

[1930

Factories and Shops Act 1928 (No. 3677).

DETERMINATION OF THE BRICK TRADE BOARD.

NOTE.—(a) This Determination on the 24th December, 1930, applied to the whole of the State of Victoria.

(b) On 21st February, 1911, the powers of the Brick Trade Board were extended, so that it might fix "the lowest prices or rates which may be paid to any person or persons or classes of persons employed in the process, trade, or business of sand, lime, or cement brickmaking."

IN accordance with the provisions of the *Factories and Shops Act 1928 (No. 3677)*, the Wages Board appointed to "determine the lowest prices or rates which may be paid to any person or persons or classes of persons employed in the process, trade or business of brickmaking (including clay-digging)," has made the following Determination, namely:—

(1) That on the 24th December, 1930, the last previous Determination of this Board shall be revoked and replaced by this Determination.

(2)

Apprentices.	Improvers.	Other Employees.	Per Hour.	Wages per week of 48 hours.
WAGES.	WAGES.	FIREBRICKS.	<i>s. d.</i>	<i>s. d.</i>
Per week of 48 hours.	Per week of 48 hours.	Burners	1 10½	89 0
<i>s. d.</i>	<i>s. d.</i>	Crusher attendants who also haul ..	1 9½	85 6
1st year's experience .. 20 0	14 years of age .. 28 0	Crusher attendants who do not haul ..	1 8½	83 0
2nd " " .. 25 6	15 " " .. 29 0	Wet pan attendants	1 9½	85 6
3rd " " .. 30 6	16 " " .. 30 6	Machine drivers	1 8½	83 0
	17 " " .. 33 0	Drawers or hand moulders	1 10½	88 6
	18 " " .. 40 6	Setters	1 10½	88 6
	19 " " .. 52 0	Facemen working in a clayhole 25 feet or less in depth where explosives are not used	1 10	88 0
	20 " " .. 57 0	All other facemen	1 10½	90 0
		Offbearers from wire cut machines ..	1 9½	85 6
		Wheelers of green bricks on inclined plane 2 feet or over in height at the higher end	1 9½	84 6
PROPORTION (in any factory or place).	Provided that any improver employed as a loft-worker, or at taking off from a single brick machine be paid not less than 5s. per week of 48 hours.	Clayhole men (employer to provide tools)	1 10	88 0
One apprentice to every three or fraction of three workers receiving not less than 83s. per week of 48 hours.		Pressers	1 9½	84 6
An indenture of apprenticeship prescribed by the Board was approved on 6.9.1924.	PROPORTION (in any factory or place).	All others	1 8½	83 0
	One improver to every eight or fraction of eight employees receiving not less than 83s. per week of 48 hours.	OTHER BRICKS.		
		Burners	1 10½	89 0
		Machine drivers, machine riggers, or wet pan attendants	1 9½	86 0
		Dry pan attendants who do not haul ..	1 9½	86 0
		Crusher attendants who do not haul ..	1 9½	84 6
		Crusher or dry pan attendants who also haul	1 10½	90 0
		Drawers	1 11½	93 6
		Setters	1 11½	93 6
		Facemen working in a clayhole 25 feet or less in depth	1 10½	89 0
		All other facemen	1 11½	94 0
		Clayhole men (employer to provide tools)	1 10	88 0
		Hand moulders, lime grinders, lime crushers, pressers, sand and lime mixers, or silomen	1 10½	88 6
		Offbearers from wire cut machines ..	1 9½	85 6
		Truckers	1 9½	85 6
		Dampers or kiln cleaners	1 9½	87 0
		Loftmen	1 10	88 0
		All others	1 8½	83 0

(3) TIME OF BEGINNING AND ENDING WORK.—For any persons except burners, machine drivers, machine riggers, and pan or crusher attendants—

Time of Beginning.	Time of Ending.
7 a.m. ..	12 noon on Saturdays, or the day on which the half-holiday is locally observed.
7 a.m. ..	5.30 p.m. on each of the other five working days of the week.

(4) OVERTIME.—(a) Any employee who works for any time in excess of the maximum number of hours per week fixed by this Determination shall be paid for such extra time at the rate of time and a half.

(b) Any employee (other than a burner, machine driver, machine rigger, or pan or crusher attendant) who works outside the hours fixed in clause 3 shall be paid for such time at the rate of time and a half.

(5) SUNDAYS AND HOLIDAYS.—Time and a half shall be the special rate for all work done on Sundays, and double time for all work done on New Year's Day, Foundation Day (26th January), Eight Hours Day (21st April), Good Friday, Easter Monday, King's Birthday, Christmas Day, and Boxing Day; but if any other day be by Act of Parliament or Proclamation substituted for any of the above-named holidays, the special rate shall only be payable for work done on the day so substituted.

PIECE-WORK PRICES FOR BRICKS OTHER THAN FIREBRICKS.

(6) The lowest piece-work prices to be paid for bricks, other than firebricks, shall be—

	In Yards where Railway Trucks are used.		In Yards where Railway Trucks are not used.	
	Ordinary Bricks, per 1,000.	Radial or Culvert or Bull-nosed Bricks, per 1,000.	Ordinary Bricks, per 1,000.	Radial or Culvert or Bull-nosed Bricks, per 1,000.
	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>
Drawing, wheeling, and stacking where the distance wheeled commencing from the outside wall of kiln at the wicket from which the bricks are drawn is—				
Not more than 26 yards	2 3½	2 6½	2 2	2 5
26 to 36 yards	2 7½	2 10½	2 6	2 9
36 to 46 yards	2 9½	3 0½	2 8	2 11
Over 46 yards	3 3½	3 6½	3 2	3 5

Drawing, wheeling, and loading on railway trucks—

	On Level Surface.		On Up-grade Planks.	
	Ordinary Bricks, per 1,000.	Radial or Culvert or Bull-nosed Bricks, per 1,000.	Ordinary Bricks, per 1,000.	Radial or Culvert or Bull-nosed Bricks, per 1,000.
	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>
Not more than 26 yards	3 4½	3 6½	3 7½	3 9½
26 to 36 yards	3 8½	3 10½	3 11½	4 1½
36 to 46 yards	3 10½	4 0½	4 1½	4 3½
Over 46 yards	4 4½	4 6½	4 7½	4 9½

Drawing bricks not previously specified in this paragraph the drawer to leave same on barrows outside of wickets 2s. 1½d. per 1,000 bricks.
Per 1,000 Bricks.

	<i>s. d.</i>
Hand-moulding square bricks where material is prepared on the ground within 15 feet of table and offbearing to grass hacks	13 4
" " " " in sheds	11 5
" " " " from bowling stool and placing on grass hacks (where material is placed on the table)	9 8
" " " " from bowling stool in sheds (where material is placed on the table)	8 11
" " fancy bricks and offbearing to hacks or in sheds	13 4
" " " " from bowling stool	11 11
Setting	2 1½
Picking blues	20 0

PIECE-WORK PRICES WHICH MAY BE FIXED BY AN EMPLOYER.

(7) The Board determines under the provisions of Section 150 of the *Factories and Shops Act 1928* that any employer may fix and pay piece-work prices to any person employed in fire-brick making, or as a clayholeman, machine driver, machine rigger, wheeler of green bricks, or trucker, provided that any such employer shall base such piece-work prices on the earnings of an average worker working under like conditions, and such piece-work prices shall be fixed so that an average worker can earn not less than the wages rates that are fixed by the Board for such work.

D. BERRIMAN, P.M., Chairman.

A. G. ALLEN, Secretary.

Melbourne, 4th December, 1930.



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No. 164] THURSDAY, DECEMBER 18. [1930

No.	Number of Tenders.	Particulars of Contract.	Country of Manufacture or Production.	Amount.	Name of Contractor.
333		Supply and delivery of Stores, as ordered from 1st July, 1930, to 30th September, 1931	As per annex	Rates as per annex	As per annex

Melbourne, 15th December, 1930.

Schedule of Rates Contracts

FOR THE

SUPPLY OF STORES

TO THE

VICTORIAN RAILWAYS,

Period 1.7.1930 to 30.9.1931.

E. C. EYERS,

By order of The Victorian Railways Commissioners.

SUPPLY AND DELIVERY OF STORES.

As ordered, from 1st July, 1930, to 30th September, 1931.

Items marked * to be supplied (subject to the General Conditions of Contract) to sample or samples exhibited by the Corporation.

Items marked † to be supplied to sample or samples furnished by the Contractor.

Items for which the Country of Manufacture is shown as Australia are to be wholly or partly manufactured in Australia.

The Stores referred to in this Schedule (if tendered of Australian manufacture or production) shall where shown be wholly manufactured or produced at the factory or works of the Contractor. No subletting will be allowed.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	

MINERAL LUBRICATING OILS.

(See Appendix "A" for Specification.)

(1.7.1930 to 30.9.1931.)

Payments will be made on gallonage calculated on net weights ascertained by approval methods by the Comptroller of Stores or his representative at the place of delivery, and the specific gravity ascertained in the Victorian Railways Laboratory from samples drawn from such delivery.

In connexion with the contract with Vacuum Oil Co. Pty. Ltd., Items Nos. 1, 1A, 4, 5, and 5A—the rates are based on T.T. Exchange at £6 10s. per cent. In the event of there being any alteration in the published bank rate of Exchange ruling on the date of delivery of any Oil ordered under this Schedule, the contract rate shall be adjusted in accordance with the following basis.

Fractions of £1 to be taken into consideration in making adjustment for Exchange.

The contract rates do not include Primage Duty or Sales Tax.

Item No.	Amount per Gallon per £1 per cent. Remittance.	Reduction per Gallon if the Rate of Exchange on London per cent. is:—					
		£1	£2	£3	£4	£5	£6
1	·221	1·215	·994	·773	·552	·33	·11
1A	·16	·88	·72	·56	·40	·24	·08
4	·116	·638	·522	·406	·29	·174	·058
5 and 5A	·0905	·497	·406	·316	·225	·135	·045

As regards the contract with Noyes Bros. (Melb.) Pty. Ltd. Item No. 2—the rate tendered is based on T.T. Exchange at 7 per cent. Any variation on the date of delivery shall be to the Corporation's account based on 80 per cent. of the contract value.

The rate does not include Sales Tax or Primage Duty.

As regards Item No. 1, it is expected that 50% of each Oil will be ordered.

As regards Item No. 2, Noyes Bros. (Melb.) Pty. Ltd. should receive 20% and Shell Coy. of Aust. Ltd. 80% of the estimated requirements. The estimated requirements have been amended accordingly.

As regards Items Nos. 5A and 6, when delivery is given direct from wharf arrangements should be made, if possible, for wharfage to be saved.

†1	Locomotive Cylinder Oil, Specification L.1, Superheater Steam, "Gargoyle Valve," in steel drums with bilge bungs	U.S.A. and Vict.	20,000 gall.	gallon	0	3	0½	} Vacuum Oil Co. Pty. Ltd.
†1A	Locomotive Cylinder Oil, Specification L.1, Superheater Steam, "C.796," in steel drums with bilge bungs	"		do.	0	2	5½	
†2	Locomotive Cylinder Oil, Specification L.1, Saturated Steam, "Germ Oil," in steel drums	U.K.	3,600 "	do.	0	2	6	} Noyes Bros. (Melb.) Pty. Ltd.
†2A	Locomotive Cylinder Oil, Specification L.1, Saturated Steam, "Shell," in steel drums	D.E. Indies and Vict.	14,400 "	do.	0	2	4	} Shell Co. of Aust. Ltd.
†3	Locomotive Bearing Oil, Specification L.2, Summer, "Shell," in drums	"	28,000 "	do.	0	1	11¾	} Vacuum Oil Co. Pty. Ltd.
†4	Locomotive Bearing Oil, Specification L.2, Winter "Loco. J," in steel drums with head bungs	U.S.A. and Vict.	24,000 "	do.	0	1	11¾	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
MINERAL LUBRICATING OILS—continued.								
†5	Car and Wagon Axle Oil (Black Oil), Specification L.3, "B.817," ex store in steel drums with head bungs	U.S.A.	30,000 gals.	gal.	0	1	3½	Vacuum Oil Co. Pty. Ltd.
†5A	Car and Wagon Axle Oil (Black Oil), Specification L.3, "B.817," ex wharf, in steel drums with head bungs	"		do.	0	1	3	
†6	Car Oil (Red Oil), Specification L.3A, "L.9," ex wharf, in drums	"	45,000 "	do.	0	1	4	Socony Pty. Ltd.
†6A	Car Oil (Red Oil), Specification L.3A, "L.9," ex store, in drums	"		do.	0	1	4½	
7 to 10	Nil.							

OILS (VARIOUS).

(See Appendix "B" for Specification.)

(1.7.1930 to 30.9.1931.)

As regards Items Nos. 11 to 34, payment will be made on gallonage calculated on net weights ascertained by approved methods by the Comptroller of Stores or his representative at the place of delivery, and the specific gravity ascertained in the Victorian Railways Laboratory from samples drawn from such delivery.

As regards Items Nos. 35 and 36, the Contractor shall not be paid any increase in contract rate to cover the surcharge of duty or primage duty.

MOTOR, ENGINE AND MACHINERY OILS.								
†11	Specification L.4; Grade—Extra Light—Oil, for Refrigerating Machines, in 4-gallon tins, "Gargoyle Arctic Oil C."	U.S.A.	70 gall.	gallon	0	3	4	Vacuum Oil Co. Pty. Ltd.
†12	Specification L.4; Grade—Light—Oil, Cylinder, for Ford Cars, in 4-gallon tins, "Castrol F."	U.K. and U.S.A.	500 "	do.	0	3	9	C. C. Wakefield & Co. Ltd.
†12A	Specification L.4; Grade—Light—Oil, Cylinder, for Ford Cars, in 4-gallon tins, "Germ Motoil L."	"		do.	0	3	1	Noyes Bros. (Melb.) Pty. Ltd.
†13	Specification L.4; Grade—Light—Oil, Cylinder, for Ford Cars, in 40-gallon drums, "Castrol F."	"	2,500 "	do.	0	3	6	C. C. Wakefield & Co. Ltd.
†13A	Specification L.4; Grade—Light—Oil, Cylinder, for Ford Cars, in 40-gallon drums, "Germ Motoil L."	"		do.	0	2	7	Noyes Bros. (Melb.) Pty. Ltd.
†14	Specification L.4; Grade—Medium—Oil, Cylinder, for Chevrolet Cars and Water-cooled Petrol Engines, in 4-gallon tins, "Castrol C.W."	"	2,000 "	do.	0	4	0	C. C. Wakefield & Co. Ltd.
†14A	Specification L.4; Grade—Medium—Oil, Cylinder, for Chevrolet Cars and Water-cooled Petrol Engines, in 4-gallon tins, "Germ Motoil M."	"		do.	0	3	8	Noyes Bros. (Melb.) Pty. Ltd.
†15	Specification L.4; Grade—Medium—Oil, Cylinder, for Chevrolet Cars and Water-cooled Petrol Engines, in 40-gallon drums, "Castrol C.W."	U.K. and U.S.A.	7,000 "	gallon	0	3	9	C. C. Wakefield & Co. Ltd.
†15A	Specification L.4; Grade—Medium—Oil, Cylinder for Chevrolet Cars and Water-cooled Petrol Engines, in 40-gallon drums, "Germ Motoil M."	"		do.	0	3	2	Noyes Bros. (Melb.) Pty. Ltd.
†16	Specification L.4; Grade—Heavy—Oil, Cylinder, for Motor Lorries, Cycles, Air-cooled Petrol Engines and Rail Motors, in 4-gallon tins, "Castrol G.P."	"	7,000 "	do.	0	4	9	C. C. Wakefield & Co. Ltd.
†16A	Specification L.4; Grade—Heavy—Oil, Cylinder, for Motor Lorries, Cycles, Air-cooled Petrol Engines and Rail Motors, in 4-gallon tins, "Germ Motoil X.H."	"		do.	0	4	1	Noyes Bros. (Melb.) Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per--	Rate.	Name of Contractor.
					£ s. d.	
OILS (VARIOUS)—continued.						
†17	Specification L.4; Grade—Heavy—Oil, Cylinder, for Motor Lorries, Cycles, Air-cooled Petrol Engines and Rail Motors, in 40-gallon drums, "Castrol G.P."	U.K. and U.S.A.	120 gals.	gallon	0 4 6	C. C. Wakefield & Co Ltd.
†17A	Specification L.4; Grade—Heavy—Oil, Cylinder, for Motor Lorries, Cycles, Air-cooled Petrol Engines, and Rail Motors, in 40 gallon drums, "Germ Motoil X.H."	"		do.	0 3 7	Noyes Bros. (Melb.) Pty. Ltd.
†18	Specification L.4A; Grade—Medium—Oil, Cylinder, for Kerosene Engines, in 4-gallon tins, "Gargoyle Vacta Heavy X"	U.S.A. and Vict.	60 "	do.	0 2 10	Vacuum Oil Co. Pty. Ltd.
†19	Specification L.5; Grade—Extra Light—Oil, Bearing for Small Electric Motors, Light Line Shafting, Pumps, Small Machines, Spindles and Automatic Signal Mechanism, in 4-gallon tins, "Libra"	U.S.A.	30 "	do.	0 1 9	Texas Co. (Aust.) Ltd.
†20	Specification L.5; Grade—Light—Oil, Bearing, for Signal Apparatus, Medium Line Shafting, Light Ball Bearings and Races, in 40-gallon barrels or drums	Partly Vict.	300 "	do.	0 1 6½	Ramsay & Treganowan Ltd.
†21	Specification L.5; Grade—Medium—Oil, Bearing, for Small Machine Tools, Large Electric Motors and Dynamos, Heavy Ball Bearings and Races, Tricycles, in 40-gallon barrels or drums, "Altair"	U.S.A.	3,300 "	do.	0 1 4	Texas Co. (Aust.) Ltd.
†22	Specification L.5; Grade—Heavy—Oil, Bearing, for Large Machine Tools, in 40-gallon barrels or drums, "P.982"	"	"	"	"	Nil
†23	Specification L.5; Grade—Extra Heavy—Oil, Bearing, for Stone Crushers, Tractors, and similar Machinery, in 40-gallon iron drums, "Shell Extra Heavy Oil"	Partly Vict.	40 gals.	do.	0 1 2	Shell Co. of Aust. Ltd.
†24	Specification L.5; Grade—Extra Heavy Special—Oil, Bearing, for Rail Motor Transmission Gear, in 40-gallon barrels or drums, "S.D." Gear	U.S.A.	900 "	do.	0 1 6	Socony Pty. Ltd.
†25	Specification L.6; Grade—Medium—Oil, for Turbines, Air Compressors, and Machinery on which the circulating system of lubrication is employed, in 4 gallon tins, "Valvoline"	"	3,000 "	do.	0 6 0	J. Carrigan
†25A	Specification L.6; Grade—Medium—Oil, for Turbines, in 4-gallon tins, "Gargoyle D.T.E. Light"	"		do.	0 3 6	Vacuum Oil Co. Pty. Ltd.
†26	Specification L.6; Grade—Medium—Oil, for Turbines, Air Compressors, and Machinery on which the circulating system of lubrication is employed, in 40-gallon drums, "Valvoline"	"		do.	0 5 6	J. Carrigan
†26A	Specification L.6; Grade—Medium—Oil, for Turbines, in 40-gallon drums, "Gargoyle D.T.E. Light"	U.S.A.	1,200 gals.	do.	0 3 4	Vacuum Oil Co. Pty. Ltd.
†27	Specification L.7; Grade—Light—Oil, for Transformers and Switch Gear, in 4-gallon tins, "Gargoyle Transformer Oil A"	"		do.	0 2 9 less 10 per cent.	
†27A	Specification L.7; Grade—Light—Oil, for Transformers and Switch Gear, in 4-gallon tins, "K.8"	Europe	do.	0 2 3	Shell Co. of Aust. Ltd.	
†28	Specification L.8; Castor Oil, in 4-gallon tins	Partly Vict.	1,000 "	do.	0 6 0	Neptune Oil Co. Ltd.
†29	Neatsfoot Oil, Pure, in 40-gallon barrels or drums, "X.L."	Vict.	100 "	do.	0 3 10	Ramsay & Treganowan Ltd.
†30	Neatsfoot Oil Compound, in 40-gallon barrels or drums, "Summit"	Partly Vict.	1,300 "	do.	0 1 9	H. C. Sleight

Item No.	Description	Country of Manufacture.	Estimated Requirements	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
OILS (VARIOUS)— <i>continued.</i>						
†31	Soluble Cutting Compound, in 40-gallon barrels or drums "X.L. Sapon Cutting Oil, No. 2"	Partly Vict.	1,500 gals.	gallon	0 2 9½	Ramsay & Treganowan Ltd.
†32	Fish Oil, for tempering springs, in 40-gallon barrels or drums, "Valco"	Japan	400 "	do.	0 2 8	R. G. Grant & Co. Pty. Ltd.
†33	Oil, Lardine, in 4-gallon tins, "Summit Lard" substitute	Partly Vict.	50 "	do.	0 2 1½	H. C. Sleigh.
†34	Oil, Lard, in 4-gallon tins	U.S.A.	50 "	do.	0 8 6	Vacuum Oil Co. Pty. Ltd.
†35	Compound, Lubricating, "Texaco Cup Grease No. 3," for use at the State Mine	"	7 cwt.	cwt.	1 7 0	Texas Co. (Aust.) Ltd.
†36	Compound, Greater Lubricating, for use at the State Mine, "Dark Gear Grease," in barrels	"	3 "	do.	1 0 6	Vacuum Oil Co. Pty. Ltd.
36A	Compound, Greater Lubricating, for use at the State Mine, "Dark Gear Grease," in 36s	"		do.	1 2 10	
37 to 40	Nil.					

GREASES.

See Appendix "C" for Specification.

(1.7.1930 to 30.9.1931.)

As regards Items 42 and 46, the surcharge of 50 per cent. on Customs duty, is *not* to be paid to these Contractors. As regards Item 43, Socony Pty. Ltd. has 22 barrels in stock, and the additional duty will apply on any Grease supplied over and above this quantity.

As regards Item 46, two tenders have been accepted, viz., Texas Co. (A/sia.) Ltd. for 75 per cent. and Shell Co. of Australia Ltd. for 25 per cent. of requirements, and the estimated quantities have been amended accordingly.

	Grease, for Gears, Conveyors, Compression Cups—					
†41	Specification M.1, "Voco Dark Gear Grease"	Vict.	120 cwt.	cwt.	1 0 6	Vacuum Oil Co. Pty. Ltd.
†42	Grease, Cup, No. 3, Specification M.2, in 5-lb. tins	U.S.A.	30 "	do.	1 15 0	Atlantic Union Oil Co. Ltd.
†43	Grease, Pantograph Collector, No. 4, Specification M.2	"	120 "	do.	1 13 0	Socony Pty. Ltd.
†44	Grease, Antifriction, for Lubrication of Rough Machinery, Rails, Switches, Curves, and other purposes. Specification M.3, "Summit"	Vict.	10 "	do.	0 15 6	H. C. Sleigh
†45	Grease, compound, for Locomotive Journals, to Specification	"	3,000-lb.	lb.	..	Nil
†46	Grease, compound, for Locomotive Crank and Coupling Rod Pins, in barrels	U.S.A.	750 "	do.	0 0 9	Texas Co. (Aust.) Ltd.
†46A	Grease, compound, for Locomotive Crank and Coupling Rod Pins, in barrels	Vict.	250 "	do.	0 0 6	Shell Co. of Aust. Ltd.
†47	Petroleum Jelly, in cases or barrels of approximately 5 cwt., for tarpaulin dressing, to Specification	U.S.A.	4,000 "	do.	0 0 1½	Neptune Oil Co. Ltd.
48-50	Nil					

TURPENTINE, TURPENTINE SUBSTITUTES, AND METHYLATED SPIRITS.

See Appendix "D" for Specifications.

(1.7.1930 to 30.9.1931.)

Payments will be made on gallonage calculated on net weights ascertained by approved methods by the Comptroller of Stores or his representative at the place of delivery, and the specific gravity ascertained in the Victorian Railways Laboratory from samples drawn from such delivery.

As regards Item 51, Brooks Robinson & Co. Ltd. is to be allowed sufficient time to import stocks to meet initial orders.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	

TURPENTINE, TURPENTINE SUBSTITUTES, ETC.—*continued.*

As regards Items 52, 52A, 52B, and 52c (Shell Co. of Aust. Ltd.), this contract is based on the wholesale selling prices ruling on the 9th July, 1930, and the rates are subject to fluctuations on all deliveries made on and after the date such fluctuations become operative.

As regards Item 53A (E. L. Yencken & Co. Pty. Ltd.), a charge of 7s. 6d. will be made for the cylinders, which amount shall be refunded to the Corporation if returned in good order and condition within a reasonable time.

Name of Manufacturer—

Items Nos. 53 and 53A.—Colonial Sugar Co., Sydney.

Turpentine—								
†51	To Specification A.5, unbranded, in 4-gallon tins	U.S.A.	2,000 gals.	gallon	0	3	9	Brooks, Robinson & Co. Ltd.
52	Substitute, volatile mineral spirit, paint thinners, Specification A.6, "Shell," in cases containing 2 x 4 gallon tins	D.E. Indies	2,000 "	case	*0	14	0	
52A	Substitute, volatile mineral spirit, paint thinners, Specification A.6, "Shell," in naked 4-gallon tins	"		tin	*0	6	8	
52B	Substitute, volatile mineral spirit, paint thinners, Specification A.6, "Shell," in bulk in departmental owned drums	"		gallon	*0	1	6	Shell Co. of Australia Ltd.
52c	Substitute, volatile mineral spirit, paint thinners, Specification A.6, "Shell," in bulk in company owned drums	"		do.	*0	1	7	
†53	Spirits, Methylated, in 4-gallon tins	N.S.W.	2,500 "	do.	0	2	10½	E. L. Yencken & Co. Pty. Ltd.
53A	Spirits, Methylated, in 40-gallon cylinders..	"		do.	0	2	6½	

* Less 5 per cent. discount 30 days.

INDIA-RUBBER GOODS, PACKING, ETC.

(1.7.1930 to 30.9.1931.)

SPECIFICATION—RUBBER HOSE.—ITEMS 67 TO 84.

All hose shall be made of rubber and cotton fabric, all materials and workmanship shall be of the very best quality; no rubber substitutes or short fibre cotton shall be used.

Hose shall be soft and pliable, uniformly and smoothly finished.

All hose delivered under the following items shall be in accordance with the requirements specified hereunder :—

Item No.	Inside Diameter.	Outside Diameter.	Length.	Qty.	Bursting Pressure.
					lb.
67	¾ in.	1 in.	60 feet	5	800
69	1 in.	1 1/8 in.	As ordered	3	400
70	1 1/4 in.	1 3/4 in.	"	3	300
71	1 in.	1 1/8 in.	"	3	300
72	1 1/2 in.	2 in.	"	3	500
74	1 3/4 in.	2 1/4 in.	"	4	756
75	2 in.	2 3/4 in.	"	4	375
76	2 1/4 in.	3 in.	"	4	300
77	2 in.	2 3/4 in.	"	4	375
79	2 in.	2 1/4 in.	40 feet	4	375
80	1 in.	1 1/8 in.	As ordered	5	1,238

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

INDIA-RUBBER GOODS, PACKING, ETC.—*continued.*

SPECIFICATION—I.R. SHEET.—ITEMS 90 TO 96.

Material.—All matting shall be made of rubber and canvas, all material and workmanship shall be of the very best quality for the purpose; no rubber substitutes shall be used.

The matting shall be soft and pliable, uniformly and smoothly finished.

The matting when tested shall comply with the following physical requirements:—

Tensile strength of Rubber Compound, not less than 275 lb. per square inch.

Elongation of Rubber Compound, not less than 50 per cent. in 2 inches.

Tensile strength of Complete Matting, not less than 650 lb. per square inch.

Permissible variation of thickness from that ordered—Under, nil; over, .035 inch.

SPECIFICATION—I.R. TYRES.—ITEMS 104 TO 109.

As regards Items Nos. 104 to 109, the Tyres shall be of the very best quality, solid grey india-rubber, and shall be securely vulcanized to the rims of the Corporation's vehicles. The moulds and rims may be inspected at the workshops of the Corporation at Newport. The moulds and rims will be delivered to the Contractor at the Metropolitan Receiving Depot, and shall be returned with the tyres and rims on the completion of an order or on demand in good order and condition to the Metropolitan Receiving Depot, Spencer-street.

57	Balls, I.R., 3" diameter ..		Nil			Nil
†58	Boots, High, sizes 8, 9, or 10, as ordered ..	Vict.	75 pairs	pair	1 0 5	Barnet Glass Rubber Co. Ltd.
*59	Buffers, Tangye Pump, 5 $\frac{3}{4}$ " x 1 $\frac{1}{2}$ " diameter x 1" hole ..	"	12	each	0 1 7	Dunlop Perdriau Rubber Co. Ltd.
†60	Bumpers, $\frac{5}{8}$ " ..	"	3 doz.	dozen	0 1 10	Barnet Glass Rubber Co. Ltd.
†61	" M.M.B.W. ..	"	10 "	do.	0 0 7	Barnet Glass Rubber Co. Ltd.
*62	Gaskets, for 3" "B. & W." Headers, oval, Graphited Bellite ..	U.K.	10,000	100	0 10 6	Bell's Asbestos Aust. Agency Ltd.
*63.	" " for 4" "B. & W." header joints, oval, Graphited Bellite ..	"	2,500	100	0 12 3	Bell's Asbestos Aust. Agency Ltd.
*64	" " manhole, inside 14" x 11", outside 16 $\frac{1}{2}$ " x 13 $\frac{1}{2}$ " ..	"	Nil			Nil
*65	" " square, for superheaters, Babcock and Wilcox boilers, Graphited ..	U.K.	150	100	0 12 3	Bell's Asbestos Aust. Agency Ltd.
†66	Gloves, sizes 6, 7, 8, 9, or 10, as ordered ..	Vict.	100 pairs	pair	0 5 9	
†67	Hose, India-rubber, vulcanized—5-ply, $\frac{3}{8}$ " diameter, in 60' lengths, for steam or air, as ordered ..	"	30 lengths	length	1 19 0	
†68	3-ply, $\frac{3}{8}$ " diameter, Armoured ..	"	720 feet	foot	0 0 7 $\frac{1}{2}$	
†69	" " $\frac{1}{2}$ " diameter, ordinary quality ..	"	600 "	do.	0 0 5	Dunlop Perdriau Rubber Co. Ltd.
†70	" " $\frac{3}{4}$ " " " " " " ..	"	7,200 "	do.	0 0 6	Dunlop Perdriau Rubber Co. Ltd.
†71	" " 1" " " " " " ..	"	1,200 "	do.	0 0 8	Dunlop Perdriau Rubber Co. Ltd.
†72	" " 1 $\frac{1}{2}$ " " " " " " ..	"	120 "	do.	0 1 3 $\frac{1}{4}$	Dunlop Perdriau Rubber Co. Ltd.
†73	4-ply, $\frac{3}{8}$ " diameter, chemical ..	"	120 "	do.	0 0 6	Dunlop Perdriau Rubber Co. Ltd.
†74	" " $\frac{3}{4}$ " diameter, special quality ..	"	1,200 "	do.	0 0 9	Dunlop Perdriau Rubber Co. Ltd.
†75	" " 2" diameter ..	"	Nil			Nil
†76	" " 2 $\frac{1}{2}$ " " " " " " ..	Vict.	1,200 feet	foot	0 2 1	
†77	" " 2" diameter, Armoured outside ..	"	3,600 "	do.	0 2 2 $\frac{1}{2}$	
†78	" " 2" diameter, Armoured inside, rough bore ..	"	540 "	do.	0 2 5 $\frac{1}{2}$	Dunlop Perdriau Rubber Co. Ltd.
†79	" " 2", special quality, in 40' lengths ..	"	4 lengths	length	3 18 0	
†80	5-ply, $\frac{1}{2}$ " diameter ..	"	5,400 feet	foot	0 1 0	Barnet Glass Rubber Co. Ltd.
†81	" " $\frac{3}{4}$ " " " " " " " ..	"	240 "	do.	0 1 2	
†82	" " 1 $\frac{1}{2}$ " diameter, for steam ..	"	240 "	do.	0 1 10 $\frac{1}{2}$	
†83	6-ply, $\frac{3}{8}$ " diameter, Armoured outside ..	"	600 "	do.	0 0 11 $\frac{1}{4}$	
†84	" " $\frac{1}{2}$ " " " " " " " ..	"	600 "	do.	0 0 9 $\frac{3}{4}$	Dunlop Perdriau Rubber Co. Ltd.
†85	India-rubber, Sheet, Vulcanized—With canvas insertion, any sizes and thicknesses ordered ..	N.S.W.		lb.	0 0 10 $\frac{1}{2}$	Dunlop Perdriau Rubber Co. Ltd.
†86	With fibrous insertion, any sizes and thicknesses ordered ..	"	4,000 lb.	do.	0 0 10 $\frac{1}{2}$	Dunlop Perdriau Rubber Co. Ltd.
†87	India-rubber, Sheet, Brown, Sample 479— $\frac{1}{4}$ " ..	Vict.	300 "	do.	0 1 8 $\frac{1}{2}$	
†88	" " $\frac{3}{8}$ " " " " " " " ..	"	100 "	do.	0 1 8 $\frac{1}{2}$	Dunlop Perdriau Rubber Co. Ltd.
†89	" " 1" " " " " " " ..	"	10 "	do.	0 1 8 $\frac{1}{2}$	Dunlop Perdriau Rubber Co. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
INDIA-RUBBER GOODS; PACKING, ETC.— <i>continued.</i>						
	India-rubber, Sheet, Brown, backed — $\frac{1}{8}$ " thick—					
90	22 $\frac{1}{2}$ " wide	Vict.	75 lin. yds.	lin. yd.	0 7 7	Dunlop Perdriau Rubber Co. Ltd.
91	26 $\frac{1}{2}$ " wide	"	75 "	do.	0 8 9	
92	27 $\frac{1}{2}$ " wide	"	140 "	do.	0 9 2	
93	30" wide	"	150 "	do.	0 10 1	
94	36" wide	"	60 "	do.	0 12 0	
95	48" wide	"	180 "	do.	0 16 0	
96	72" wide	"	84 "	do.	1 4 0	
	Mallets, I.R., hard grade, handled—					
97	3 $\frac{1}{2}$ " diameter x 5 $\frac{1}{2}$ " long, heavy	"	6	each	0 6 4 $\frac{1}{2}$	Barnet Glass Rubber Co. Ltd.
98	2 $\frac{1}{2}$ " diameter x 4 $\frac{1}{2}$ " long, heavy	"	2	do.	0 4 4 $\frac{1}{2}$	
99	Rollers, Feed, for Edison Mimeograph	"	100	do.	0 0 4	
100	Solution, I.R., in kerosene tins	"	250 lb.	lb.	0 0 7 $\frac{1}{2}$	Dunlop Perdriau Rubber Co. Ltd.
101	Tips, Finger, pinnacle type	"	600 doz.	dozen	0 0 6 $\frac{1}{2}$	Barnet Glass Rubber Co. Ltd.
102	Tubing, $\frac{3}{8}$ " diameter	"	70 feet	foot	0 0 1 $\frac{1}{2}$	Dunlop Perdriau Rubber Co. Ltd.
103	" $\frac{1}{2}$ " diameter	"	70 "	do.	0 0 3 $\frac{1}{2}$	Barnet Glass Rubber Co. Ltd.
	Tyres, solid rubber, to be moulded on wheels, for industrial trucks—					
104	6 $\frac{1}{2}$ " diameter x 6 $\frac{1}{2}$ "	"	2	each	2 16 0	Dunlop Perdriau Rubber Co. Ltd.
105	6 $\frac{1}{2}$ " diameter x 5"	"	4	do.	1 19 2	
106	11 $\frac{1}{2}$ " diameter x 4 $\frac{1}{2}$ "	"	10	do.	2 6 2	
107	16" diameter x 4"	"	12	do.	3 0 2	
108	17 $\frac{3}{4}$ " diameter x 3 $\frac{3}{4}$ "	"	5	do.	3 5 1	
109	17 $\frac{3}{4}$ " diameter x 5"	"	4	do.	3 11 4	
	Washers, I.R.—					
*110	Cushion, 4 $\frac{3}{4}$ " x 2" x 2-7/16" hole	"	6	each	0 2 8	Dunlop Perdriau Rubber Co. Ltd.
†111	Gauge Glass, flat or round, as ordered, any sizes ordered	"	6 doz.	dozen	0 0 7 $\frac{1}{2}$	
†112	Gauge Glass, hexagonal, for "B. & W." Boilers, 250-lb. pressure	"	40 "	do.	0 1 0 $\frac{1}{4}$	
†113	With Insertion, any sizes ordered, not exceeding 6"	"	12 "	do.	..	Nil
†114	With Insertion, any sizes ordered, over 6"	"	8 "	do.	0 1 4	Barnet Glass Rubber Co. Ltd.
†115	Royle's Union	Vict.	8 "	do.	0 1 4	Barnet Glass Rubber Co. Ltd.
*116	Westinghouse Brake Hose $\frac{3}{4}$ "	"	125 "	do.	..	Nil
*117	" " 1 $\frac{1}{8}$ "	Vict.	125 "	do.	0 1 3 $\frac{3}{4}$	Dunlop Perdriau Rubber Co. Ltd.
*118	" " 1 $\frac{1}{4}$ "	"	125 "	do.	0 1 4 $\frac{1}{2}$	
PACKING, ETC.						
	Packing, Asbestos—					
†119	Any sizes ordered	U.K.	400 lb.	lb.	0 1 7 $\frac{1}{2}$	Dane, Taylor & Co. Pty. Ltd.
†120	Cord or Yarn	"	600 "	do.	0 1 4	
†121	Millboard, any thicknesses ordered	"	4,000 "	do.	0 0 3	
	Packing, "Sunlight"—					
122	1/32"	Vict.	450 "	do.	0 1 1 $\frac{1}{2}$	Dunlop Perdriau Rubber Co. Ltd.
123	1/16"	"		do.	0 1 1 $\frac{1}{2}$	
124	1/8"	"		do.	0 1 1 $\frac{1}{2}$	
125	3/16"	"		do.	0 1 1 $\frac{1}{2}$	
126	Packing, Patent, up to $\frac{1}{8}$ " thick, as ordered, "Jointite"	U.K.	2,000 "	do.	0 1 0 $\frac{1}{2}$	Barnet Glass Rubber Co. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
INDIA-RUBBER GOODS, PACKING, ETC.— <i>continued.</i>						
† { 127 128 129	Packing, Greasy Hemp, Round—	Vict.	7 lb.	lb.	0 1 9	Dane, Taylor & Co. Pty. Ltd.
	1"		50 "	do.	0 1 9	
	1½"		10 "	do.	0 1 9	
† { 130 131 132 133 134 135 136	Packing, Greasy Hemp, Square—	U.K.	14 "	do.	0 0 8	Paul & Gray Ltd.
	1"		72 "	do.	0 0 8	
	1½"		80 "	do.	0 0 8	
	1"		60 "	do.	0 0 8	
	1"		10 "	do.	0 0 8	
	1½"		100 "	do.	0 0 8	
† { 137 138 139 140	Packing, Round, "Snowflake" or any suitable alternative—	Vict.	14 "	do.	0 2 9	Dane, Taylor & Co. Pty. Ltd.
	1"		14 "	do.	0 2 9	
	1½"		14 "	do.	0 2 9	
	1"		14 "	do.	0 2 9	
† { 141 142	Packing, Round Core or Square Block, as ordered, ½" and up to less than ¾", as ordered	"	30 cwt.	cwt.	11 4 0	Barnet Glass Rubber Co. Ltd.
	Packing, Round Core or Square Block, as ordered, ¾" and over, as ordered		25 "	do.	11 4 0	
† 143	Asbestos Compound	N.S.W.	6 "	do.	0 14 6	McPherson's Pty. Ltd.
144	Asbestos Graphite, Compounded, suitable for Superheat Temperature, Piston and Valve Spindle Stuffing Boxes— ½" diameter "Victor" Special S.H. Loco. Packing	U.K.	500 lb.	lb.	0 4 6	Bell's Asbestos Aust. Agency Ltd.
145	Or moulded as per blue print No. 5276 ..	"		do.	..	Nil
146	Nil	"				
EBONITE ACCUMULATOR ACCESSORIES.						
*147	Ebonite Fork Separators, 10" long x ¼" wide, 7/32" x 11/16" across	Vict.	200 doz.	dozen	0 3 8½	Barnet Glass Rubber Co. Ltd.
*148	Ebonite Cell-testing Tubes	"	120 "	do.	0 2 7½	
*149	Accumulator Floats	U.K.	120 "	do.	0 7 6	Coates & Co. Pty. Ltd.
EBONITE SIDE SHEETS.						
*150	11-pt., 11 3/8" x 5 1/8" x 19 B.W.G.	Vict.	600 "	do.	0 5 8	Dunlop Perdriau Rubber Co. Ltd.
*151	15-pt., 11 1/2" x 7 1/2" x 19 B.W.G.	"	6 "	do.	0 7 4	
*152	21-pt., 11 1/2" x 11" x 19 B.W.G.	"	4 "	do.	0 9 8	
EBONITE BOTTOM SHEETS.						
*153	11-pt., 5 1/2" x 5 1/2" x 19 B.W.G.	"	100 "	do.	0 3 0	Dunlop Perdriau Rubber Co. Ltd.
*154	15-pt., 7 1/2" x 5 1/2" x 19 B.W.G.	"	12 "	do.	0 4 0	
155 to 160	Nil.	"				

BUILDING AND CONCRETE SAND.

(1.7.1930 to 30.9.1931.)

The Sand shall be clean and free from foreign matter, and shall be delivered properly loaded into railway trucks at the station named, and consigned as ordered. The proper loading of the Sand into railway trucks shall include so lining the trucks with paper as to prevent the Sand escaping, and the Contractor shall be liable for any loss of Sand arising, in the judgment of the Comptroller of Stores, from the Contractor's failure or neglect to so line the trucks, and the amount of such loss as assessed by the Comptroller of Stores shall from time to time be borne by the Contractor, and may be deducted from any moneys due to him by the Corporation.

Measurement will be made at the Railway Station from which the Sand is consigned.

Inspection will be made at the Railway Station to which the Sand is consigned.

As regards Items Nos. 164 to 164b, orders are to be placed on the most advantageous contractor, having regard to rate, quality of sand, freight to destination, and ability of Contractor to supply.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
BUILDING AND CONCRETE SAND— <i>continued.</i>								
	Sand—							
†161	Fine	..	Nil	..	..	..	..	Nil
†162	Coarse, delivered at Seaford	Vict.	360 cub. yds.	c. yd.	0	2	3	R. W. McCulloch & Co.
†163	Medium, delivered at Earlston Private Siding, near Cranbourne	"	600 "	do.	0	2	3	Earlston Pty. Ltd.
†164	Coarse, for concrete work, delivered at Pyalong	"	2,400 "	do.	0	2	6	J. McNish
†164A	Coarse, for concrete work, delivered at Lal Lal	"		do.	0	5	0	A. P. Parker
†164B	Coarse, for concrete work, delivered at Company's Siding, Koo-wee-rup	"		ton of 25	0	3	8	Koo-wee-rup Water Washed Sand Co. Pty. Ltd.
165	} Nil			c. ft.				
166								

SAND FOR LOCOMOTIVES AND MOULDING PURPOSES.

(1.7.1930 to 30.9.1931.)

The Sand shall be delivered, properly loaded into railway trucks at the station named, and consigned as ordered. The proper loading of the Sand into railway trucks shall include lining the trucks with paper so as to prevent the Sand escaping, and the Contractor shall be liable for any loss of Sand arising, in the judgment of the Comptroller of Stores, from the Contractor's failure or neglect to so line the trucks, and the amount of such loss as assessed by the Comptroller of Stores shall from time to time be borne by the Contractor, and may be deducted from any moneys due to him by the Corporation.

Measurement will be made at the railway station from which the Sand is consigned.

Inspection will be made at the railway station to which the Sand is consigned.

As regards Items Nos. 167-167B, orders are to be placed on the most advantageous Contractor, having regard to the rate, freight to destination, and ability of Contractor to supply.

†167	Sand, for Locomotives, delivered at Seaford	Vict.	1,500 c. yds.	c. yd.	0	3	9	Albion Sand Co. Pty. Ltd.
†167A	" " delivered at Ballarat East	"		do.	0	4	3	George Waller
†167B	" " delivered at Cranbourne	"		do.	0	2	5	Cranbourne Sand Pty. Ltd.
†168	" for Brass Moulding purposes	..	15 "	do.	..	..	..	Nil
169-171	Nil							

INFUSORIAL EARTH (GROUND).

(1.7.1930 to 30.9.1931.)

The material required is that known as Infusorial Earth, i.e., Diatomaceous Earth, free from stones and foreign matter.

The Infusorial Earth (Diatomaceous Earth) shall be ground ready for mixing.

A sample of the Infusorial Earth, of at least 10 lb. in weight, shall be submitted with the tender.

In allotting the Contract the undermentioned factors, (a), (b), (c), and (d), in addition to price and place of delivery, will be taken into consideration :—

- (a) Fineness of sample.
- (b) Moisture content of sample.
- (c) Weight per unit volume of sample.
- (d) Percentage of true Infusorial Earth.

The empty bags will be returned by the Corporation to the Contractor from time to time at the Metropolitan Receiving Depot, Spencer-street. Any bags not returned will be paid for at the rate of 4s. 6d. per dozen.

The Infusorial Earth supplied shall be at least equal in quality to that supplied under Contract No. 43191.

†172	Earth, Infusorial, in bags (which will remain property of Contractor), delivered into trucks at Hawthorn Railway Station	Vict.	25 tons	ton	8	5	0	Engineering Products Pty. Ltd.
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CORDAGE, ROPE, AND TWINES.

(1.7.1930 to 30.9.1931.)

The Rope to be supplied under Items 189 to 194 inclusive shall be packed in hessian. The hessian packing will, as far as practicable, be returned to the Contractor at the Metropolitan Receiving Depot, Spencer-street.

The Rope to be supplied under Items Nos. 190, 191, 191A, and 192 shall be free from tarred yarns.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
CORDAGE, ROPE, AND TWINES—continued.							
As regards Items Nos. 174 to 179A, two tenders have been accepted in order that comparative tests may be conducted to determine whether Cotton or Hemp is more suitable. The Storekeeper at Newport will please arrange for this matter to be finalized before tenders are again invited.							
As regards Item No. 202, the rate includes Customs surcharge duty of 50 per cent. In the event of the Commonwealth Government removing this additional charge, the rate shall revert to 3s. 3d. per lb. on all Twine ordered after the expiration of two calendar months from the date upon which the removal of the surcharge duty is effective.							
Name of Manufacturer—							
Item No. 202.—Wm. Barbour & Sons Ltd., England.							
Items Nos. 203, and 203.—Finlayson Bonsfield & Coy., England.							
†173	Cord, Sash, Patent, Jute, any numbers ordered	..	200 lb.	lb.	..	To be ordered under item 174/9	
Cord, Sash, Braided, in coils—							
174	No. 6 "Security," Cotton	Vict.	100 "	do.	0 1 6	} Downs & Son Pty. Ltd.	
174A	No. 6 Hemp	"		do.	0 1 9		
175	No. 7 "Security" Cotton	"		do.	0 1 6		
175A	No. 7 Hemp	"		do.	0 1 9		
176	No. 8 "Security" Cotton	"		do.	0 1 6		
†176A	No. 8 Hemp	"		250 "	do.		0 1 9
177	No. 9 "Security" Cotton	"		do.	0 1 6		
177A	No. 9 Hemp	"		90 "	do.		0 1 9
178	No. 10 "Security" Cotton	"		do.	0 1 6		
178A	No. 10 Hemp	"		80 "	do.		0 1 9
179	No. 12 "Security," Cotton	"	do.	0 1 6			
179A	No. 12 Hemp	"	5 "	do.	0 1 9		
†180	Cord, Whip, any sizes ordered	"	20 "	do.	0 2 9	} James Miller & Co. Pty. Ltd.	
†181	" Marking (Chalk)	"	20 "	do.	0 2 3		
†182	" Nicking Line, any sizes ordered	"	60 "	do.	0 2 0		
Lines, Fishing—							
†183	4 oz.	"	15 dozen	dozen	0 1 9	} Downs & Son Pty. Ltd.	
†184	Medium 12oz.	"	15 "	do.	0 2 9		
†185	16 oz.	"	15 "	do.	0 3 4		
†186	Flax, 16 oz.	"	1 "	do.	0 3 6	} James Miller & Co. Pty Ltd.	
†187	Packing, Flax, pure	"	7 cwt.	cwt.	7 0 0		
†188	Rope, Clothes Line	"	2 "	do.	3 6 0		
†189	" Europe, bolt, entirely of new Russian hemp, up to 3", as ordered, with blue worsted thread in one strand	"	50 "	do.	4 19 9		
" Manila, fine and long fibre, with blue worsted thread in one strand—							
†190	1/2" up to 2 1/2", as ordered	"	90 "	do.	4 10 0	} James Miller & Co. Pty Ltd.	
†191	Over 2 1/2" up to 12", as ordered	"	50 "	do.	4 10 0		
†191A	" Manila, stretched for power transmission, 3-14 in. circ., 3 strand	"	5 "	do.	5 2 0		
†192	" Manila, stretched for power transmission, 3 1/2 in. circ., 3 strand	"	55 "	do.	5 2 0		
†193	" New Zealand Flax, 1" to 2", as ordered, with blue yarn in one strand—	"	350 "	do.	3 9 0		
1 1/4" Rope to have in addition one blue strand in each Rope							
†194	" New Zealand Flax, 2 1/4" to 3", as ordered, with one blue yarn in each strand—	"	1,300 "	do.	3 9 0	} Downs & Son Pty. Ltd.	
2 1/4" Rope to have in addition one blue strand in each Rope							
†195	Rope, Lashing, New Zealand Flax	"	25 "	do.	3 2 6		
†196	Marline, 3 cord, in 1-lb. hanks	"	600 lb.	lb.	0 1 2 1/2	} Downs & Son Pty. Ltd.	
†197	Spun yarn, Jute	"	2 cwt.	cwt.	3 2 0		
†198	Twine, Binder	"	20 "	do.	3 4 9		
†199	" Fine	"	1,700 lb.	lb.	0 1 1	} Downs & Son Pty. Ltd.	
†200	" Medium	"	2,000 "	do.	0 0 11 1/2		
†201	" Coarse	"	900 "	do.	0 0 10 1/2		
†202	" Seaming, Flax,	U.K.	1,400 "	do.	0 3 7 1/2	} Frank & Bryce Ltd.	
†203	" Coarse, Special, for Trimmers' use	Vict.	1,000 "	do.	0 1 5		
†204	" Mattress, No. 2, 4-ply, in 1-lb. balls	"	200 "	do.	0 4 1	} Downs & Son Pty. Ltd.	
†205	" Machine, best 6-cord, right or left hand twist, as ordered, in 1-lb. kops, best pure linen thread	U.K.	1,000 "	do.	0 3 10 1/2		
†206	" Machine, best 5-cord, right or left hand twist, as ordered, in 1 lb. kops, best pure linen thread	"	1,500 "	do.	0 3 10 1/2	} Frank & Bryce Ltd.	
207 to 209	Nil.						

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	

CANVAS AND CANVAS HOSE.

(1.7.1930 to 30.9.1931.)

The Canvas shall be composed of "All Long Flax." and shall be free from dressing and every foreign substance, and each bolt of Canvas shall be branded so as to show clearly the contract weight, in ounces, per square yard, and shall be of the full weight specified when delivered.

Each delivery of the Canvas may, at the option of the Corporation, be subjected to the following tensile tests, viz. :—

Strips of Canvas may be tested on a "Goodbrand's" Cloth Testing Machine, and shall then show an average tensile strength on the warp and weft respectively as follows, viz. :—

Item Nos. and Description.	Average on each of 12 strips 12 x 1.	
	On Warp	On Weft.
	lbs.	lbs.
210 and 218, 33 oz. Canvas	270	530
211 and 219, 30	250	500
212 and 220, 22	225	390
213, 20	200	390
214, 18	225	280
215, 16	200	250
216, 14	200	215
217, 12	190	200
221, OO, Bleached Canvas	185	330
222, Tanned Canvas	125	125
223, Lavender	125	125

The Canvas shall be supplied in bolts, each consisting of one piece approximately 50 yards in length, and branded with the exact length.

As regards Item No. 222, the canvas shall be dyed in accordance with the departmental sample but to the quality of the sample submitted by the contractor.

HOSE FOR FIRE EXTINCTION PURPOSES—Item No. 225.

The Hose shall comply with the Specification of the Metropolitan Fire Brigades Board, and after delivery may be submitted to that Board for test purposes.

A statutory declaration will be furnished by the Corporation to the Contractor that the Hose supplied has been installed for fire extinguishing purposes after it has been actually installed, which should reasonably be within a period of six months after delivery.

* As regards Items Nos. 212 to 216, the rates tendered are based on London-Australia demand draft exchange at the rate of 7½ per cent., and any rise or fall at the date of delivery of the material shall be to the Corporation's account. Exchange to be payable on the c.i.f. rates as shown hereunder :—

Item No. 212	2s. 0½d. lineal yard
Item No. 213	1s. 11¼d. "
Item No. 214	1s. 10d. "
Item No. 215	1s. 7½d. "
Item No. 216	1s. 6½d. "

Name of Manufacturer—

- Items Nos. 210, 218, 219, and 221.—M. C. Thomson & Co. Ltd., Glasgow.
- Items Nos. 212 to 216.—Boase Spinning Co. (1920) Ltd., Dundee.
- Item No. 220.—Baxter Bros., Dundee.
- Items Nos. 222 and 223.—John Broadbent, England.
- Item No. 224.—British Hose and Appliances Co. Ltd., England.
- Item No. 225.—F. Reddaway & Co., Manchester, England.

†210	Canvas, 36" wide—	.. ..	U.K.	2,500 ^{lin.} / _{yds.}	lin. yd.	0 3 6½	} John Edmondson & Co. Pty. Ltd.				
	33 oz. per square yard							} Nil				
	†211 30 oz. "								} Nil			
	†212 22 oz. "									} Dalgety & Co. Ltd.		
	†213 20 oz. "										} Nil	
	†214 18 oz. "											} Nil
	†215 16 oz. "												} Nil
†216 14 oz. "	} Nil											
†217 12 oz. "		} Nil										
†218			Canvas, 24" wide—	.. ..	U.K.	2,000 "	do.	0 2 4½	} John Edmondson & Co. Pty. Ltd.		
†219			33 oz. per square yard							} John Edmondson & Co. Pty. Ltd.		
†220			30 oz. "								} Gilbert Lodge & Co. Ltd.	
			22 oz. "	} Gilbert Lodge & Co. Ltd.								
					.. ..	"	3,750 "	do.	0 1 11		
			} Gilbert Lodge & Co. Ltd.									
		} Gilbert Lodge & Co. Ltd.										

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
CANVAS AND CANVAS HOSE—continued.						
†221	Canvas, 24" wide— <i>continued.</i> OO, Bleached, 28 oz. per square yard ..	U.K.	1,250 <small>ln.</small> yds.	<small>ln.</small> yd.	0 2 2½	John Edmondson & Co. Pty. Ltd. J. Gadsden Pty. Ltd.
†222	Canvas, 72" wide, Tanned, 16 oz. per square yard	"	300 "	do.	0 4 11	
†223	" 72" wide, Lavender	"	750 "	do.	0 4 11	
CANVAS HOSE.						
†224	Hose, Canvas, 2½", for other than fire extinction purposes, "Anchor" 2 L.	"	2,000 feet	foot	0 0 10½	H. O. White & Co.
†225	" " 2½", for fire extinction purposes, "Monsoon"	"	3,000 "	do.	0 1 0	Thomas Evans Pty. Ltd.
226 to 228	Nil					

CANVAS BAGS, TENTS, AND FLIES.

(1.7.1930 to 30.9.1931.)

Item No. 229.—The Canvas Tool Bags shall be made from the heaviest description of flax Canvas, free from dressing and sewn with the best six-cord linen thread—the bottom shall be manufactured from the best sole leather.

Item No. 230.—The Canvas Water Bags shall be made from the best 28-oz. pure flax, bleached Canvas, sewn with the best six-cord linen thread. All seams shall be double sewn. A metal tap shall be fitted in lieu of the old style of Canvas tube. Old taps to be reused where possible.

Item No. 231.—The Canvas Water Bottles shall be made from the best 28-oz. all long flax Canvas, and sewn with the best six-cord linen thread.

Items Nos. 232 to 235.—The Tents and Flies shall be manufactured from 10-oz. per sq. yd. Duck, free from Dressing and every foreign substance. The tenderer shall submit with his tender a sample piece (36" x 36") of the Duck from which the Tents and Flies will be manufactured.

A sample Tent, 6" x 8", and Fly, 8" x 10", is exhibited for the guidance of tenderers as regards quality and workmanship in respect to Items Nos. 232, 233, 234 and 235.

The Tents shall be made with ridge bands and door flaps, and all eyelet holes shall be strongly reinforced with canvas patch—all eyelets shall be of extra strong quality.

The Flies shall be made complete with ridge bands and all eyelet holes reinforced.

Forty feet of New Zealand Rope shall be supplied with both Tent and Fly. Linen thread only shall be used.

*229	Bags, Tool, Canvas	Victoria	30	each	0 7 11	Gair Manufacturing Co. Pty. Ltd. Chief Mechanical Engineer
*230	" Water, Canvas	"	200	do.	0 9 9	
*231	Bottles, Water, Canvas	"	1,300	do.	0 1 10	Gair Manufacturing Co. Pty. Ltd.
†232	Flies, Duck, 8' x 10', for 6' x 8' Tents	"	50	do.	0 12 9	
†233	" " 10' x 12', for 8' x 10' Tents	"	15	do.	0 17 11	
†234	Tents, Duck, 6' x 8'	"	30	do.	1 5 11	
†235	" " 8' x 10'	"	15	do.	1 14 11	
236 to 239	Nil.					

WIRE ROPE.

(1.7.1930 to 30.9.1931.)

Name of Manufacturers:—Aust. Wire Rope Works Ltd., Newcastle, N.S.W.

Rope, Steel Wire, flexible, galvanized, 6 strands, 19 wires per strand, 90 tons per square inch—		Guaranteed Strength of Rope.	Aggregate Breaking Strength of Rope.				
	Circum.	Tons.	Tons.				
240		..	.58	N.S.W.	100 feet	foot	0 0 2
241		..	.8	"	1,800 "	do.	0 0 2
242		..	1.2	"	8,000 "	do.	0 0 2½

Inglis Smith & Co. Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
WIRE ROPE—continued.						
Rope, Steel Wire, flexible, &c.—continued.						
	Circum.	Guaranteed Strength of Rope. Tons.	Aggregate Breaking Strength of Rope. Tons.			
243	¾"	..	1.8	N.S.W. 1,400 feet	foot	0 0 2½
244	1"	2.9	3.3	" 700 "	do.	0 0 2½
245	1½"	4.5	5.1	" 4,000 "	do.	0 0 2½
246	1½"	6.4	7.3	" 100 "	do.	0 0 3½
247	1½"	8.6	9.8	" 250 "	do.	0 0 4½
248	2"	11.7	13.4	" 200 "	do.	0 0 5½
249	2½"	15.4	17.5	" 200 "	do.	0 0 6½
250	2½"	18.0	20.6	" 200 "	do.	0 0 7½
251	2½", 6 strand, 12 wires per strand, for tail ropes	14.8	16.5	" 2,000 "	do.	0 0 6½
Rope, Steel Wire, Special, extra flexible, galvanized, 6 strands, 24 wires per strand, 90 tons per square inch—						
	Circum.	Guaranteed Strength of Rope. Tons.	Aggregate Breaking Strength of Rope. Tons.			
252	1"	2.8	3.3	" 2,000 "	do.	0 0 3
253	1½"	4.3	4.9	" 2,000 "	do.	0 0 3½
254	1½"	6.0	6.8	" 7,000 "	do.	0 0 3½
255	1½"	8.5	9.7	" 4,000 "	do.	0 0 5
256	2"	10.9	12.4	" 3,000 "	do.	0 0 5½
257	2½"	14.2	16.2	" 3,000 "	do.	0 0 6½
258	2½"	17.2	19.7	" 4,000 "	do.	0 0 7
259	Rope, Steel Wire, flexible, 21 gauge (seizing wire)			" 1,000 "	do.	0 0 0½
Rope, Wire flexible black, best patent steel, acid, 80/90 tons per square inch, 6 strands, 19 wires per strand—						
	Circum.	Guaranteed Strength of Rope. Tons.	Aggregate Breaking Strength of Rope. Tons.			
260	1½"	6.0	6.9	" 1,000 "	do.	0 0 5
260A	1½"	8.1	9.3	" 2,000 "	do.	0 0 6½
261	2"	11.1	12.7	" 2,000 "	do.	0 0 7½
261A	2½"	13.9	15.9	" 2,000 "	do.	0 0 9
261B	2½"	17.0	19.5	" 3,000 "	do.	0 0 10

Inglis, Smith and Co. Pty. Ltd.

BELTING, LEATHER, AND LEATHER GOODS.
(1.7.1930 to 30.9.1931.)

SPECIFICATION FOR ITEMS NOS. 264 TO 268A.

Double Belting, 6½ inches to 8 inches wide, shall have three rows of copper wire stitching, one along the centre and one along each edge.

In all other respects the Belts shall be in accordance with Specification No. B. 4—1929 T of the Australian Commonwealth Engineering Standards Association for Vegetable Tanned Leather Belting, and clause 16 relating to sewing shall be complied with.

The Laminated Belting under Items Nos. 269 to 272 shall be perfectly straight and well stretched. The laminations shall be of even grade and thickness, and shall be cut from specially selected hides.

SPECIFICATION FOR TRAIN LIGHTING BELTING.—Item No. 279A.

The Belting, as shown opposite Item No. 279A, shall be in accordance with Specification No. B. 3—1929 T of the Australian Commonwealth Engineering Standards Association as applied to transmission belting, except that the surface of the belting shall be so treated to enable it to withstand the frictional heat set up when the belt slips on the train lighting dynamo pulley.

All inspection and tests will be conducted by and at the cost of the Corporation on its premises.

The Leather Basils supplied under Item No. 280 shall have an area of not less than 7 sq. ft.

The Butts supplied under Item No. 282 shall be of uniform thickness and special quality, properly trimmed, and shall be free from flesh cuts, blemishes and brands. The Butts shall be prepared with the constituents as in the sample, and shall be close in grain, very firm and capable of resisting an air pressure of not less than 60 lb. per square inch. The leather shall not be too dry, as it has to be moulded into shape which bends the Butts at right angle.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

BELTING, LEATHER, AND LEATHER GOODS—continued.

As regards Item No. 283, the Butts shall be trimmed to a uniform thickness of approximately $\frac{1}{4}$ inch. Tenderer to submit a complete trimmed hide as a sample.

As regards Items Nos. 284 and 285, the Leather Butts shall be of even grade and thickness, and suitable for the manufacture of Westinghouse Brake Washers. They shall be of the very best quality for the purpose.

As regards Item No. 277, Composition Belting, in the event of the Commonwealth Government removing the surcharge on duties on Belting, the contract rate shall be reduced to 40 per cent. off list price. This reduction shall be operative on all orders placed after the expiration of a period of two months after the date of the gazettal of the removal of such surcharge duties. In the event of there being any other alteration in Customs duties, clause 7 of Conditions of Contract shall apply.

As regards Items Nos. 264 to 268 two tenders have been accepted. The Belting offered by Joshua Pitt Pty. Ltd. is regarded as more superior, and orders for limited quantities only are to be placed on Geo. Pizzey and Son Ltd. until it has been definitely determined, having regard to price and quality, that the use of its Belting is more advantageous.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
BELTING, LEATHER.						
262-3	Nil.					
	Single—Copper Sewn—					
†264	Up to 4" wide, as ordered	Vict.	4,150 sq. ft.	sq. ft.	0 3 0	Geo. Pizzey & Son Ltd.
†264A	Up to 4" wide, as ordered	"		do.	0 3 3	Joshua Pitt Pty. Ltd.
†265	4½" to 6" wide, as ordered	"	120 "	do.	0 3 4	Geo. Pizzey & Son Ltd.
†265A	4½" to 6" wide, as ordered	"		do.	0 3 4	Joshua Pitt Pty. Ltd.
	Double—Copper Sewn—					
†266	Up to 4" wide, as ordered	"	400 "	do.	0 5 10	Geo. Pizzey & Son Ltd.
†266A	Up to 4" wide, as ordered	"		do.	0 6 6	Joshua Pitt Pty. Ltd.
†267	4½" to 6" wide, as ordered, 2 rows stitching	"	400 "	do.	0 6 0	Geo. Pizzey & Son Ltd.
†267A	4½" to 6" wide, as ordered, 2 rows stitching	"		do.	0 6 7	Joshua Pitt Pty. Ltd.
†268	6½" to 8" wide, as ordered, 3 rows stitching, evenly spaced	"	100 "	do.	0 6 6	Geo. Pizzey & Son Ltd.
†268A	6½" to 8" wide, as ordered, 3 rows stitching, evenly spaced	"		do.	0 6 8	Joshua Pitt Pty. Ltd.
†268B	Belting, Leather, single hemp sewn, 4 in. ..	"	150 lin. ft.	lin. ft.	0 1 8	Joshua Pitt Pty. Ltd.
	Belting, Leather, Laminated, Endless, or otherwise, any widths ordered—					
†269	5/16" thick	"	300 "	do.	Less 25 % and 20 %	Geo. Pizzey & Son Ltd.
†270	"	"		do.		
†271	"	"		do.		
†272	"	"		do.		
	Threads for jointing laminated belting—					
†273	For 5/16" thick belts } Threads 25 feet in	"	4 dozen	dozen	0 6 0	Geo. Pizzey & Son Ltd.
†274	" " " " } length	"		do.	0 6 0	
†275	" " " " }	"		do.	0 7 0	
†276	" " " " }	"		do.	0 7 0	
	Belting, Composition, flat or round, as ordered, in the following sizes:—					
	"Dicks" genuine Balata—					
	1" x 3 and 5 ply	U.K.	£1,000		Less 31 %	Hardie Trading Pty. Ltd.
	1½" x 3 ply					
	1½" x 3, 4, and 5 ply					
	1½" x 3 and 4 ply					
	2", 2½", 2½", 2½", 3", 3½" and 4" x 3, 4 and 5 ply					
	4½" x 3, 4, 5 and 6 ply					
	5" x 3, 4, 5, 6 and 8 ply					
	5½" x 3, 4, 5 and 6 ply					
	6" and 7" x 4, 5 and 6 ply					
	8", 9" and 10" x 4, 5, 6 and 8 ply					
	12", 14" and 16" x 5, 6 and 8 ply					
	18" x 6 and 8 ply					

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
BELTING, LEATHER, AND LEATHER GOODS—continued.						
BELTING, LEATHER—continued.						
†278	Belting, Rubberized Canvas, 4-ply— 4" wide, in lengths of 9' 4"	Vict.	600 lin. ft.	lin. ft.	0 1 1½	Dunlop Perdriau Rubber Co. Ltd. Barnet Glass Rubber Co. Ltd.
†279	4" wide, in rolls to cut lengths of 9' 4"	"	"	do.	0 1 1½	
†279A	Belting, 3" wide x 4-ply, canvas duck, treated with rubber composition, unstitched, for driving train-lighting dynamos	"	3,600 "	do.	0 0 10½	
LEATHER.						
Leather—						
†280	Basil, large size	N.S.W.	1,000	each	0 2 9	Geo. Pizzey & Son Ltd.
†281	Bellows, Oil Dressed	Vict.	90 cwt.	cwt.	8 19 0	Zwar Bros. Pty. Ltd.
†281A	Bellows, Chrome Tanned	"		do.	do.	13 10 8	Michaelis Hallenstein & Co. Pty. Ltd.
†282	Butts, special wax filled	"	10 "	do.	18 13 4	W. Braithwaite Pty. Ltd.
†283	" Harness, of an even thickness throughout, prepared in oil, black or brown	"	2 "	do.	21 0 0	W. Braithwaite Pty. Ltd.
†284	" special, black, heavy	"	20 "	do.	16 16 0	Michaelis, Hallenstein & Co. Pty. Ltd.
†285	" " " light	"	5 "	do.	.. .. .	Nil
†286	Chrome	Vict.	5 "	do.	15 8 0	Michaelis, Hallenstein & Co. Pty. Ltd.
†287	Harness, Brown	"	12 "	do.	9 6 8	Geo. Pizzey & Son Ltd.
†288	" Black, heavy	"	10 "	do.	9 6 8	
†289	Rein, Brown, stained	"	9 "	do.	12 12 0	
†290	Sole, Trimmed	"	100 "	do.	11 4 0	W. Braithwaite Pty. Ltd.
LEATHER GOODS.						
Bags--						
*291	Cash, large, plain	"	240	each	0 3 6	Chief Mechanical Engineer
*292	Tool, Linesmen's	"	6	do.	0 18 10	
*293	Cash, Hand, 16"	"	6	do.	1 11 6	Geo. Pizzey & Son Ltd.
*294	Tool	"	6	do.	1 2 4	Chief Mechanical Engineer
*295	Signal Adjuster	"	6	do.	1 0 0	Michaelis, Hallenstein & Co. Pty. Ltd.
*296	Motormen's Kit	"	6	do.	1 7 0	
*297	Guards' Kit	"	12	do.	1 9 0	
*298	Weighbridge Ticket, lettered, as ordered ..	"	3	do.	0 12 0	Geo. Pizzey & Son Ltd.
*299	Carriers, Miniature Staff	"	200	do.	0 2 6	Chief Mechanical Engineer
†300	Cases, Attache, solid leather, 16" x 9" approx.	"	20	do.	1 5 6	Geo. Pizzey & Son Ltd.
†301	Clogs, strong, split kip, blucher pattern, wooden soles, iron shod, sizes 5 to 10, as ordered	"	100 pairs	pair	0 9 3	McIlroy & Plowman Pty. Ltd.
*302	Portfolios, Relieving Stationmasters' ..	"	2	each	1 6 6	Michaelis, Hallenstein & Co. Pty. Ltd.
*303	Straps, Body Belt, 8' 6" long x 2", with two buckles, the joint to be made at the buckle end (breaking strength not less than 600 lb.)	"	10	do.	0 13 1	Chief Mechanical Engineer
*304	Straps, Clip, 7' 6" long, 1½" wide, heavy buckle, to stand a test pull of 600 lb.	"	20	do.	0 4 9	
305 to 309	Nil					

FIRE BRICKS, ETC.

(1.7.1930 to 30.9.1931.)

The Fire Bricks and Lumps shall be carefully loaded into trucks at the station named, and be properly packed with straw so as to prevent damage in transit, failing which the Contractor shall be held responsible and liable for any loss or damage which, in the judgment of the Comptroller of Stores shall arise or occur owing to the Contractor's failure to properly load and pack the Stores.

All Fire Bricks and Fire Lumps shall bear the manufacturer's name or brand.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
FIRE BRICKS, ETC.—continued.						
Place of Delivery— Australian Gas Retort and Firebrick Manufacturing Co. in trucks at Windsor or Spencer-street. Ordish Firebrick Co. Pty. Ltd. in trucks at Dandenong. Engineering Products Pty. Ltd. in trucks at Hawthorn.						
As regards Items Nos. 313 and 314, two tenders have been accepted, viz., Ordish Firebrick Co. Pty. Ltd. and the Australian Gas Retort and Firebrick Manufacturing Co. Quantities of bricks ordered shall be in the proportions of 75 per cent. to the Ordish Firebrick Co. Pty. Ltd. and 25 per cent. to the Australian Gas Retort and Firebrick Manufacturing Co., provided satisfactory service is rendered.						
†310	Boiler Covering Composition, soft setting ..	Vict.	60 cwt.	cwt.	1 6 0	Engineering Products Pty. Ltd.
†311	Blocks, Cilinsulate, 12" x 8" x 1½" ..	"	3,000	each	0 2 0	
Bricks, Fire, Locomotive—						
†312	Ordinary Small, to Item No. 1 of Drawing No. 1524	"	50,000	100	1 10 0	Ordish Firebrick Co. Pty. Ltd.
†313	Side Carrier, to Item No. 2 of Drawing No. 1524	"	13,000	{do.	2 0 0	
†313A	Side Carrier, to Item No. 2 of Drawing No. 1524	"		{do.	1 10 0	Australian Gas Retort and Firebrick Mfg. Co. Pty. Ltd.
†314	Front Centre, to Item No. 3 of Drawing No. 1524	"	{do.	2 0 0		
†314A	Front Centre, to Item No. 3 of Drawing No. 1524	"	13,000	{do.	1 10 0	Australian Gas Retort and Firebrick Mfg. Co.
Bricks, Fire, for "N" Class Engines—						
†314B	Side Carrier, R.H. to Item 4 of V.R. Drawing 5343	"	900	100	2 0 0	Ordish Firebrick Co. Pty. Ltd.
†314C	Side Carrier, L.H. to Item 5 of V.R. Drawing 5343	"	900	do.	2 0 0	
†314D	Front to Item 6 of V.R. Drawing 5343 ..	"	2,250	do.	2 0 0	
Bricks, Fire—						
†315	Ordinary, including splits, soaps and wedges	"	130,000	{do.	0 17 6	
†316	To any other sizes and templates ordered, templates not exceeding 9" x 4½" x 3¼"	"		{do.	0 17 6	
*317	Segment, 9" x 6½" x 6"	"	13,000	{do.	1 10 0	
†318	Segment, to any other sizes and templates ordered	"		{do.	1 10 0	
Bricks, Fire, for Oil Burners—						
319	To Blue Print, No. 1 ..	"	2	each	0 10 0	Ordish Firebrick Co. Pty. Ltd.
320	" " No. 2 ..	"	20	do.	0 5 0	
321	" " No. 3 ..	"	20	do.	0 1 0	
†322	Clay, Fire, machine ground ..	"	1,600 cwt.	cwt.	0 2 0	Ordish Firebrick Co. Pty. Ltd.
†323	" " extra fine ground ..	"	300 "	do.	0 2 6	
Lumps, Fire—						
†324	12" x 6" x 36"	"	20 "	do.	0 7 0	
†325	Any sizes other than 12" x 6" x 36", and any patterns ordered other than the following:—Any lump over 9" x 4½" x 3¼", or segment over 10½" x 6" x 3"	"	500 "	do.	0 7 0	
*326	Pedestals, Fire Lump ..	"	25	100	2 0 0	
327 to 346	Nil.					

FOUNDRIY COKE.
(1.7.1930 to 30.9.1931.)
SPECIFICATION FOR COKE.

Moisture content shall be less than 2 per cent.
Ash content shall be less than 15 per cent.
Sulphur content shall be less than 1 per cent.
Volatile matter shall be less than 2 per cent.
The Coke must be reasonably free from dust and small pieces.
The Coke will be ordered in minimum quantities to be stated by the Tenderer.
The rates do not include wharfage dues of the Melbourne Harbour Trust. The Corporation will arrange clearance.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

FOUNDRY COKE—continued.

Delivery will be taken in railway trucks at Victoria Dock, Williamstown, or any other suitable discharging berth at the port of Melbourne at Contractor's option, and payment will be made on the out-turn weights as ascertained over the weighbridges of the Corporation at the place where the ship discharges.

The Corporation is prepared to consider tenders based on the current market price of coal, but the Tenderer shall clearly set out the basis on which the tender is made and the method of adjusting the rate.

347 | Coke, Foundry, Purified | 800 tons | ton | .. | Nil

FILES AND RASPS.

(1.7.1930 to 30.9.1931.)

The estimated requirements are based on the full list price.

The Files and Rasps for Items 348 to 350 shall be of any description, shape, length, or edge ordered.

As regards items Nos. 348 and 349, the tenderer shall submit one 14-inch Hand Second Cut File for testing purposes.

As regards the tender with Frank Wells Pty. Ltd., in the event of there being any alteration in the prevailing rate of T.T. exchange of £6 10s. per cent. at the date of delivery of any Files ordered, the contract rate (i.e., the result after deducting 55 per cent. from List Price) shall be adjusted in accordance with the following scale:—

Less 1½ per cent. when T.T. exchange is 5 per cent.	4	and under.
" 2 " " " "	3	
" 2½ " " " "	2	
" 3½ " " " "	1	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Percentage off the Price List submitted with tender and current during the period of this contract.	Name of Contractor.
†348	Files, bastard, as ordered, "Vickers"	U.K.	£800	}	..	62½%	Wm. Adams & Co. Ltd. H. O. White & Co. Frank Wells Pty. Ltd.
†348A	Files, bastard, as ordered, "Brown Bayleys"	"			..	62½%	
†348B	Files, second cut and smooth, as ordered, "Marsh Bros."	"			..	55%	
†349	Rasps, as ordered, "Vickers"	"	£120	}	..	62½%	} Wm. Adams & Co. Ltd.
350	Files, Saw, "Vickers"	"			..	62½%	
*351	Files, Valve Rubber, bastard cut, 6" x 1½", "Chain"	"	24	each	0 4 6	} Firdaw Engineering Supply Co. Pty. Ltd.	
*352	Files, Valve Rubber, bastard cut, 7" x 1½", "Chain"	"	12	do.	0 5 6		
353	Files, Dreadnought, 16", "Patent File & Tool Co."	"	24	do.	0 5 9	John Danks & Son Pty. Ltd.	
354 to 355	Nil						

WOODEN HANDLES.

(1.7.1930 to 30.9.1931.)

As regards Item 378, the handle supplied shall have the metal "D" provided with a ¼" rivet through the wooden part and rivet fixed securely to the metal of the "D."

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
†356	Handles— Adze, Spotted Gum, "Gumleaf"	N.S.W. and Vict.	24 doz.	dozen	0 15 6	John Perry Pty. Ltd.
†357	Axe, 32"	..	12	do.	..	} Nil.
†358	Axe, 36"	..	60	do.	..	
†359	Broom, Short, 3' 6"	Vict.	10	do.	0 3 0	} Workshops Manager, Spotswood Hardware Co. of Aust. Pty. Ltd.
†360	Broom, Long, 6', straight	..	30	do.	0 4 9	
†361	Claw Hammer, No. 1 Bonser (Hely Bros.)	N.S.W.	8	do.	0 3 10	

Item No.	Description	Country of Manufacture.	Estimated Requirements,	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
WOODEN HANDLES—continued.								
†362	Handles, Hammer, first quality—							
	14", No. 1 Bonser (Hely Bros.) ..	N.S.W.	20 doz.	dozen	0	3	4	Hardware Co. of Aust. Pty. Ltd.
†363	16", No. 1 Bonser (Hely Bros.) ..	"	200 "	do.	0	3	11	
†364	18", No. 1 Bonser (Hely Bros.) ..	"	50 "	do.	0	4	3	
†365	20", No. 1 Bonser (Hely Bros.) ..	"	50 "	do.	0	4	8	
†366	22"	"	12 "	do.	..			
†367	24"	"	20 "	do.	..			
*368	24", large eye	"	20 "	do.	..			Nil
†369	30"	"	60 "	do.	..			
†370	36"	"	80 "	do.	..			
†371	38"	"	12 "	do.	..			
*372	38", large eye	"	18 "	do.	..			Nil
†373	Handles, Mop, ferruled, "Porta & Sons" ..	Vict.	24 "	do.	0	4	5		Briscoe & Co. Ltd.
†374	Handles, Pick— D.E., Navy, Spotted Gum, "Gumleaf" ..	Vict. and N.S.W.	150 "	do.	0	14	2	John Perry Pty. Ltd.
†375	Miners', "Ballarat"	"	Nil	do.	..			Nil
†376	Coal Miners', 85A	"	Nil	do.	..			
†377	Handles, Shovel, long handled, bent "Gumleaf"	Vict.	25 doz.	do.	0	16	6	John Perry Pty. Ltd.
†378	" " S.H., bent, metal D top ..	"	50 "	do.	0	18	0	Thos. Mitchell & Co. Pty. Ltd.
†379	" Scythe "Derby & Ball"	"	Nil	..	..			Nil
†380	" Hatchet, Hickory, for No. 2 Brades Hunters Hatchets ..	"	6 doz.	do.	..			Nil
381 to 386	} Nil.							

AUGERS.

(1.7.1930 to 30.9.1931.)

As regards Items Nos. 387 to 401, the rates do not include exchange. The Corporation will pay the Contractor the current rate of T.T. exchange ruling on the date of delivery of the stores on 80 per cent. of the contract rate, which is regarded as the c.i.f. value.

387	Augers, Screw, "Ridgway"—							
388	7/8" diameter	U.K.	60 doz.	dozen	0	16	8	Briscoe & Co. Ltd.
389	1"	"		do.	0	16	8	
390	1 1/8"	"		do.	0	16	8	
391	1 1/4"	"		do.	0	18	10	
392	1 1/2"	"	Nil			Nil
393	1 3/4" .. .. .	"		..	..	
394	1 7/8"	U.K.	5 "	dozen	1	4	11	Briscoe & Co. Ltd.
395	2"	"		do.	1	4	11	
396	2 1/8"	"	20 "	do.	1	8	3	
397	2 1/4"	"		do.	1	8	3	
398	2 1/2"	"	1 "	do.	3	1	9	
399	2 3/4"	"	1 "	do.	5	12	0	
Augers, Screw, for railway hardwood sleepers, 8 threads per inch on lead screw, and cutting edges sharpened, "Ridgway"—								
†400	1 1/8" diameter	"	160 "	do.	1	2	10	Briscoe & Co. Ltd.
†401	1 1/4"	"		do.	1	2	10	
402 to 404	} Nil.							

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate.			Name of Contractor.	
				per—	£	s. d.		
ADZES, AXES, ETC.								
(1.7.1930 to 30.9.1931.)								
†405	Adzes, Carpenters'— No. 2, plain, "Brades," No. 396 ..	U.K.	70	each	0	4	2	} E. Duckett & Sons
†405A	No. 2, pin-poled, "Brades," No. 382 ..	"		do.	0	3	3	
†406	No. 3, plain, "Brades," No. 396 ..	"		do.	0	4	4	
†406A	No. 3, pin-poled, "Brades," No. 382 ..	"		do.	0	3	5	
†407	Axes, handled, 5 lb. ..	"	450	do.	..	..	Nil
†408	Hatchets, Axe pattern, handled, "Brades," No. 378 ..	"	75	do.	0	2	6	E. Duckett & Sons
†409	" Lathing, No. 3, handled, "Brades" ..	"	10	do.	0	3	2	J. Walker
†410	Hooks, Bush, axe-handled ..	"	2	do.	..	..	} Nil
†411	" Fern ..	"	50	do.	..	..
†412	Mattocks ..	"	Nil	do.	..	..
†413	Slashers, Straight-handled ..	"	20	do.	..	..
414 and 415	} Nil.							

SHOVELS, PICKS, ETC.

(1.7.1930 to 30.9.1931.)

Name of Manufacturer—

Items Nos. 416, 417, 422, 423, and 424—Wm. Savage and Co. Ltd., New South Wales.

* As regards Items 418 and 423, George Russell Ltd., in the event of there being any alteration from £6 10s. per cent. in the published rate of T.T. exchange on the date of delivery of any material ordered, same shall be to the Corporation's account. Adjustment shall be made on 80 per cent. of the contract rates as representing the c.i.f. value.

Shovels, Steel—								
†416	Long handled, round mouth, No. 3 ..	N.S.W.	200	each	0	4	10	} J. Wildridge & Sinclair Ltd.
†417	" square mouth, No. 3 ..	"	100	do.	0	4	10	
†418	Moulders', smooth back, No. 2, "Brades," No. 1153 ..	U.K.	100	do.	*0	6	11	George Russell Ltd.
†419	Navy, round mouth, No. 4 ..	Vict.	500	do.	0	5	3	} Titan Manufacturing Co. Pty. Ltd.
†420	Square mouth, No. 3 ..	"	1,400	do.	0	5	1	
†421	Fuelmen's, No. 6, coal scoops ..	N.S.W.	500	do.	0	8	6	Tulloch's Phoenix Iron Works Ltd.
†422	Coal, square-mouthed, D handled, No. 6 ..	"	100	do.	0	5	5	} J. Wildridge & Sinclair Ltd.
†423	Coal, square-mouthed, D handled, No. 7 ..	"	150	do.	0	5	6	
†424	Firemen's ..	"	900	do.	0	6	5	} Tulloch's Phoenix Iron Works Ltd.
†424A	Firemen's ..	"		do.	0	6	10½	
†425	Forks, Digging, 5-prong, "Brades," No. 743 ..	U.K.	5	each	0	5	3	James Walker
†426	" Stone, 8-prong, "Brades," socket handled ..	"	24	do.	0	7	5	E. Duckett & Sons
†427	Picks, Miners', 4 lb., "Brades," No. 1337 ..	"	12	do.	0	3	0	} George Russell Ltd.
†428	" Coal Miners', 2 lb., "Brades," No. 1305 ..	"	60	do.	*0	2	2½	
†429	" Navy, double-ended, diamond and chisel pointed, 7 lb., "Brades," No. 1308 ..	"	200	do.	0	2	6	
†430	Steel D's (without stales) for Shovel Handles	Vict.	100	do.	0	1	0½	Titan Manufacturing Co. Pty. Ltd.
431 to 433	} Nil							

SAWS AND BLADES.

(1.7.1930 to 30.9.1931.)

Name of Manufacturer—

Items Nos. 434 to 437.—English Steel Corporation Ltd.

Item No. 438.—Chas. Baynes.

Item No. 439.—Jonas & Colver (Novo) Ltd.

Item No. 442.—Arthur Balfour & Co. Ltd.

Item No. 443.—John Vessey & Sons Ltd.

Item No. 444.—Marsh Bros. or Brittain & Co.

Item No. 457.—Sanderson Bros. & Newbould.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	

SAWS AND BLADES—continued.

As regards Item 444—Frank Wells Pty. Ltd.—the contract rate includes exchange, primage duty, duty on containers and sales tax. Should sales tax not be levied, the contract rate shall be amended accordingly. Should the rate of T.T. exchange at the date of delivery of any blades ordered be less than £6 10s. per cent., the contract rate shall be adjusted in accordance with the following scale:—

Less 1½ per cent. when T.T. Exchange Rate is 5 per cent.	
" 2 " " " " " " 4 "	
" 2½ " " " " " " 3 "	
" 3½ " " " " " " 2 "	
" 3¾ " " " " " " 1 per cent. and under.	

	Blades, Hack Saw—							
†434	8" x ½" x 23 G. " Vickers "	U.K.	2 doz.	dozen.	0 1 3	} Wm. Adams & Co. Ltd.		
†435	9" x ½" x 23 G. " "	"	500 "	do.	0 1 3			
†436	10" x ½" x 23 G. " "	"	2,000 "	do.	0 1 4¾			
†437	12" x ½" x .025 " "	"	1,600 "	do.	0 1 8½			
	Blades, Hack Saw, High Speed—							
†438	16" x 1" x 18 G., 10 points, " Ding Dong "	"	2 "	do.	1 10 6	Alfred Herbert (Aust.) Ltd.		
†439	17" x 1" x 18 G. " "	"	50 "	do.	1 12 6	Gilbert Lodge & Co. Ltd.		
440	16", centre to centre of holes 1½", 14 to 16 gauge, as ordered	"	5 "	do.	..	} Nil		
441	21", centre to centre of holes 1½", 14 to 16 gauge, as ordered	"	5 "	do.	..			
442	Any length over 12" (other than 16", 17", or 21" as shown above), as ordered	U.K.	1,800 ins.	inch	0 0 0.42	Eagle & Globe Steel Co. Ltd.		
443	16" x 1½", 18 gauge, " Echo "	"	3 doz.	dozen	2 0 9	Contes & Co. Pty. Ltd.		
†444	Blades, Hack Saw, High Speed, for railway rails, 12" x about 9/16" x about 23 gauge, 14 to 18 points per inch, as ordered	"	100 "	do.	0 2 3	Frank Wells Pty. Ltd.		
	Saws, Band, narrow, in coils up to 108', and any gauge, as ordered—							
445	½"	Vict.	50 feet	foot	0 0 3	} F. Leech & Co.		
446	¾"	"	200 "	do.	0 0 4			
447	1"	France	150 "	do.	0 0 4	} H. T. Justins		
448	1½"	"	100 "	do.	0 0 4¾			
449	2"	"	200 "	do.	0 0 5½			
450	2½"	"	100 "	do.	0 0 5¾			
451	3"	"	150 "	do.	0 0 6			
	Saws, Circular, any gauge ordered—							
452	30" ..	N.S.W.	100 ins.	each	2.19 9	} Eagle & Globe Steel Co. Ltd.		
453	36" ..	"	100 "	do.	4 14 0			
†454	Saws, Crosscut, Lightning, Tasmanian, or Peg Tooth, as ordered, any length ordered, Carbon Steel, " Ward and Payne "	U.K.	160 feet	lin. ft.	0 2 9	Briscoe & Co. Ltd.		
†455	Saws, Hand, 26", any tooth, as ordered, Carbon Steel, " Ward and Payne "	"	150 "	each	0 4 10	} James Walker		
†456	Saws, Rip, 28", any tooth, as ordered, Carbon Steel " Ward and Payne "	"	5 "	do.	0 5 5			
†457	Saws, Lightning, 1-man, in lengths 3', 3' 6", 4' and 4' 6" as ordered, Carbon Steel	"	50 "	lin. ft.	0 2 3	Noyes Bros. (Melb.) Pty. Ltd.		
458 to 466	} Nil							

WIRE (IRON AND STEEL).

1.7.30 to 30.9.1931.

BLACK STEEL WIRE.—Item No. 478.

The Mild Steel Wire under Item 478 shall be of the best quality mild steel, and shall be free from rust and injurious defects of any kind.

A test piece of the Wire must withstand, without fracture, being doubled over, cold, until the internal radius is not greater than 1½ times the thickness of the test piece and the sides are parallel.

The Wire shall be supplied in coils.

STEEL STRANDED SIGNAL WIRE —Item No. 479

The Signal Wire under Item 479 shall be in accordance with Wire specified in British Engineering Standards Association Specification No. 163 of 1924 and therein designated W.S.3.

WIRE, IRON AND STEEL—*continued.*SPECIFICATION FOR GALVANIZED STEEL STANDARD WIRE—*continued.*SPECIFICATION FOR GALVANIZED STEEL STRANDED WIRE.—*Item No. 480.*

General Particulars.—The stranded Wire shall be made up of (7) seven steel wires each of 0.144 inch diameter. Each length of Wire shall be free from splices, and should it be necessary to weld joints in individual wires, the welded joints shall be as strong as the rest of the Wire, each Wire shall be free from scale, inequalities, spills, splits, and other defects. Each Wire shall be smoothly galvanized, and the mechanical properties of the steel shall not be adversely affected by this process. The outer layer shall be wound in the direction as shown on Drawing No. F.1586.

Tests after Delivery.—A sample piece of Wire may be taken from each drum at the option of the Receiving Officer and subjected to the undermentioned tests—(a), (b), and (c). In the event of a sample of the Wire from any drum not passing these tests, a second and a third sample shall be taken from the same drum, and if one of these also fail under tests the drum from which it is taken shall be rejected.

- (a) Tensile.—The Wires shall have a tensile breaking strength of not less than 45 tons per square inch, with an elongation of not less than 3 per cent., in a length of 10 inches.
- (b) Galvanizing.—The quality of the galvanizing after stranding will be tested by immersing sample pieces of the Wire in a freshly made neutral solution of Sulphate of Copper saturated at 60 degrees F., and allowing them to remain in the solution for one minute, after which they will be withdrawn, plunged into clean water, and wiped clean. The galvanizing shall admit to this process being performed four times with each sample without there being any signs of reddish deposit of metallic copper on the Wire. Not more than three pieces of Wire are to be immersed in the solution at one and the same time.
- (c) The sample pieces of the galvanized Wire shall bear winding round a bar $1\frac{1}{4}$ inches in diameter without the galvanized surface showing signs of cracking.

Contractor to be Given Notice of Tests.—Any tests necessary to ascertain whether the Wire supplied complies with this Specification will be carried out by the Receiving Officer. The Contractor will be notified at his Melbourne address of the intention to carry out such tests and at what place they will be carried out, 24 hours previously, but should the Contractor or his representative fail to be present the tests may be carried out in his absence at his risk.

How Delivered.—The Standard Wire shall be delivered on drums. The dimensions of the drums shall not exceed the figures given on Drawing No. F.678; an iron plate 15 inches x 15 inches x $\frac{1}{4}$ inch thick is required to reinforce each side of the drum, and to which it must be bolted. A 3-inch clearance hole is to be made in both the drum and the plate to take a 3-inch square spindle. The gross and net weights, also number of feet on drum, are to be stencilled on the drum in figures which should not be less than $1\frac{1}{2}$ inches high.

Delivery.—The delivery of the Galvanized Steel Stranded Wire shall be given as directed, at the Corporation's Overhead Construction Storehouse, Laurens-street, North Melbourne.

Information to be Supplied by Tenderer.—The Tenderer shall state, where provided for below, the quality of galvanizing he will guarantee on the Wire after stranding when subjected to the tests as detailed in Clause 8 (b) of this Specification.

(a) Number of 1 (one) minute dips guaranteed is.....No.

FENCING WIRE.—*Items Nos. 481 and 482.*

In the case of Fencing Wire required for delivery to the Goods Sheds for despatch to the country, the Contractor will require to have the same weighed on one of the weighbridges at the Spencer-street Goods Sheds, and attach to his Delivery Docket a copy of the Weighbridge Ticket showing the number of coils and weight of Wire delivered. The cost of weighing and Weighbridge Ticket shall be borne by the Contractor.

SPECIFICATION FOR GALVANIZED IRON OR STEEL WIRE.—*Items Nos. 483 and 484.*

A "piece" shall be understood to mean a single length of Wire without weld, joint, or splice of any description either before being drawn or in the finished Wire.

A "coil" shall be held to mean a piece of Wire in the form of a coil.

A "bundle" one coil, or two or more coils properly bound together.

A "parcel" any quantity of manufactured Wire presented for examination and testing at any one time.

A "mil" is the one-thousandth part of an inch.

The standard ohm is the unit of resistance adopted by the British Board of Trade, and legalized by the British Order in Council of 23rd August, 1894.

The Wire shall be of low carbon iron or steel, uniformly annealed, soft, pliable, free from scale, inequalities, flaws, splits, and other defects, uniformly cylindrical, and of the sizes shown in the annexed table.

The Wire shall be drawn in continuous pieces of the weights and diameters given in the annexed table. Each piece must be warranted to contain no weld, joint, or splice whatever, either in the rod before it is drawn or in the finished Wire.

The Wire shall be well galvanized with zinc spelter, and this shall be tested by taking samples from any piece or pieces and plunging them into a saturated solution of Sulphate of Copper at 60 degrees Fahr. and allowing them to remain in the solution for one minute, when they are to be withdrawn and wiped clean; the galvanizing shall admit of this process being four times performed with each sample, without

WIRE, IRON AND STEEL—continued.

SPECIFICATION FOR GALVANIZED IRON OR STEEL WIRE—continued.

there being any sign of a reddish deposit of Metallic Copper on the Wire, which would be the case if the coating of zinc were too thin. Samples taken from any piece or pieces of the several sizes shall also bear bending round a bar of the diameter given below, without any sign of the zinc cracking or peeling off.

Weight per mile in lb.	400	200
Diameter of bar in inches	1½	1¼

To prove its ductility the Wire shall be capable of bearing the number of twists shown in the annexed table without breaking or showing any signs of splitting or other defect. The test shall be made as follows:—The piece of wire shall be gripped by two vices, one of which shall be free to move longitudinally and twisted by one of the vices being made to revolve at a speed not exceeding one revolution per second, the twists being reckoned by means of an ink mark which forms a helix of the Wire during torsion. The full number of twists shall be distinctly visible between the vices, no fractions being reckoned.

The tensile breaking strength of the Wire shall be tested by means of a lever or other machine which has the approval of the Receiving Officer. The Wire shall at first lift a weight equal to at least nine-tenths (9/10) of the minimum tensile strength shown in the table for the size under trial, and the remaining tenth shall be added gradually.

The electrical resistance of each test piece shall be reduced according to its diameter, and shall be calculated for a temperature of 60 degrees Fahr. The length of such test piece shall not measure less than 1-30th part of a mile.

If the diameter of any test piece be disputed, the Receiving Officer may have such test piece weighed, and if the weight per mile be either more or less than the standard weight the resistance shall not be so high that, when multiplied by the weight per mile, it would exceed the constant shown in the annexed table, and in all cases where the product is greater than this constant, the Wire shall be liable to rejection.

The Wire shall be smoothly and uniformly coiled so that the eye of the coil shall not be less than 19 inches or more than 20 inches in diameter.

Every bundle of Wire shall be weighed separately and the weight (in English pounds avoirdupois), together with the name of the maker, stamped on the metallic label, which shall be provided by the Contractor, the label to be firmly fixed to the inner part of the bundle.

If, after examination of any particular parcel of Wire, 10 per cent. of such Wire does not meet the requirements of all or any of the foregoing stipulations and of the table, the whole of such parcel shall be rejected, and no such parcel or any part thereof shall, on any account, be again presented for examination and testing; and this stipulation shall be deemed to be and treated as an essential condition of the Contract.

Weights.—All weights shall be ascertained by weighing the Wire on the weighbridge scales or other weighing machine of the Corporation, and all such weights so ascertained by the Receiving Officer shall, for all purposes, be accepted by the parties of this Contract as correct and final and binding.

TABLE REFERRED TO IN THE FOREGOING SPECIFICATION.

	400 lb. Wire.	200 lb. Wire.
Weight per mile lb.	400	200
" " min. lb.	380	190
" " max. lb.	420	210
Diameter mils	170	120
" min. mils	165	117
" max. mils	174	123
Breaking weight min. lb.	1,200	600
Number of twists in 6 inches	22	26
Number of twists in 6 inches for breaking weight not less than 1,230 lb.	21	24
Number of twists in 6 inches for breaking weight not less than 1,260 lb.	20	22
Resistance per mile of standard size at 60° Fahr. ohms	13.32	26.64
Constant, being standard weight per mile by resistance per mile at 60° Fahr.	5328	5328
Weight of each piece of coil min. lb.	90	60
Weight of each piece of coil max. lb.	120	120
Weight of each bundle min. lb.	90	100
Weight of each bundle max. lb.	120	120

As regards Items Nos. 478 to 484, in the event of the material requiring to be imported into the State of Victoria after the order has been placed, the rates shall include wharfage dues of the Melbourne Harbour Trust; but to enable the Corporation to obtain exemption of wharfage, each Bill of Lading should be made out in favour of the Comptroller of Stores of the Victorian Railways. Wharfage will be arranged by the Corporation and the Delivery Order returned to the Contractor in order that delivery may be completed. The amount involved for wharfage will be deducted from the Contractor's invoice.

As regards Item No. 478, the rates shall be subject to adjustment in the event of the Commonwealth Government amending the Bounty. The rates are based on the price of Coal, and in the event of such rate being decreased during the currency of the contract, a proportionate reduction (as certified to by the Company's Accountant) shall be allowed in the price per ton of all wire produced and delivered after date of such decrease in the price of Coal.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.	
					£	s.	d.		
WIRE (IRON AND STEEL).									
467	Wire, Iron, Charcoal, 8 to 16 s.w. gauge, as ordered		10 cwt.	cwt.	..			} Nil	
468	" " " Galvanized, 12 s.w. gauge		2 "	do.	..				
Wire, Iron, Galvanized—									
469	6 s.w. gauge		8 "	do.	..				
470	9 "		5 "	do.	..				
471	10 "		60 "	do.	..				
472	12 "		5 "	do.	..				
473	14 "		5 "	do.	..				
474	15 "		1 "	do.	..				
475	16 "		60 "	do.	..				
476	Wire, Iron, Tinman's, 6 to 14 s.w. gauge, as ordered		18 "	do.	..				
477	" " Tinned, 8 to 18 s.w. gauge, as ordered		6 "	do.	..				
†478	" Mild Steel, Hard Black Fencing, 6 B.W. gauge (203") for spark arresters	N.S.W.	12 tons	ton	15 10 0		Rylands Bros. (Aust.) Ltd.		
†479	" Steel Signal, Galvanized, 7/-056		6 "	do.	..				
480	" Steel, Galvanized, Stranded, 7/-144, to Specification, delivered at North Melbourne		5 miles	do.	..				
481	Wire, Galvanized, Plain Fencing, 8 s.w. gauge		50 tons	do.	..				
481A	" Galvanized, Plain Fencing, 12½ s.w. gauge (Rylands' B.H.P. Co. Ltd. "Tyeasy" patent)		50 "	do.	..				
482	" Galvanized, Barbed, Fencing, 12 s.w. gauge		36 "	do.	..				
Wire, Iron or Steel, Galvanized, to Specification—									
483	400 lb. per mile		80 "	do.	..				
484	200 lb. per mile		10 "	do.	..				
485 } and } 486 }	Nil.								

BRICKS, BUILDING.

(Various Districts.)

(1.7.1930 to 30.9.1931.)

The Bricks shall be carefully loaded into trucks at the railway station named and consigned as ordered, and such loading shall be performed by and at the expense of the Contractor, and to the satisfaction of the Comptroller of Stores.

The Bricks shall be well burnt, sound, hard, truly shaped, and of uniform size and colour.

BENDIGO AND DISTRICT.								
†487	Bricks, Building, delivered into trucks at Bendigo Railway Station	Vict.	24,000	1,000	3 7 0		Bendigo Brick Co.	
BALLARAT DISTRICT.								
†488	Bricks, Building, delivered into trucks at Selkirk's Siding, Ballarat	"	15,000	do.	3 0 0		} James Selkirk Pty. Ltd.	
MARYBOROUGH DISTRICT.								
†489	Bricks, Building, delivered into trucks at Selkirk's Siding, Ballarat	"	12,000	do.	3 0 0			
NORTH-EASTERN DISTRICT — TOOLAMBA TO KYABRAM AND BRANCH LINES.								
†490	Bricks, Building, delivered into trucks at Railway Station	..	10,000	do.	..		} Nil	
NORTH-EASTERN DISTRICT—BENALLA TO WODONGA AND BRANCH LINES.								
†491	Bricks, Building, delivered into trucks at Railway Station	..	10,000	do.	..			
492 } and } 493 }	Nil.							

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	

EXPLOSIVES AND AMMUNITION.
(1.7.1930 to 30.9.1931.)

Deliveries in Melbourne by road are now under the control of the Explosive Department, and if material be ordered for delivery on other than Tuesdays and Fridays an extra charge is involved, viz. :—

Blasting Powder.—Minimum delivery, 10s., which covers up to 100 lb. Each additional case of 50 lb., 2s. 6d. extra.

Detonators.—Minimum delivery, 10s.

The staff will please arrange to order material in such a manner as will obviate the payment of these charges.

As regards Item No. 494, a repacking charge of 3s. per lot shall be made if ordered in less than case lots of 5,000.

As regards Item No. 495, if ordered in less than case lots of 300 coils, the rate shall be 9d. per coil.

If deliveries be required by road in Melbourne or suburbs the additional cost of delivery shall be as follows :—

Item No. 494	.. Caps	In parcels under 500 ..	2s. 6d. the lot.
		In parcels 500 and over ..	3s. 6d. the lot.
Item No. 496	.. Gelignite		2s. 9d. per case.
Items Nos. 497 and 498	Blasting Powder		½d. per lb.

Use of Cylinders—If despatched by rail in cylinders, a charge of 1s. for each 50 lb. or part thereof of Blasting Powder, will be made, and for Items Nos. 494, 495, and 496, 1s. per cylinder.

Name of Manufacturers—

- Item No. 494, Nobel's Explosive Coy. Ltd., London.
- Items Nos. 495 and 496, Nobel (Aust.) Ltd., Melbourne.
- Item Nos. 497 and 498, Curtiss and Harvey Ltd., London.
- Item No. 499, F. N. Browning.

McMicking and Co. advise that they have a storage magazine in South Melbourne where Explosives can be procured without delay should they be urgently required.

In the event of there being any reduction in the market price of the Explosives during the currency of the Contract the rates quoted shall be correspondingly reduced.

EXPLOSIVES.

494	Caps, No. 6, in boxes of 100, delivered f.o.r. Laverton	U.K.	200 boxes	box	0 5 6	} Dalgety & Co. Ltd.	
495	Fuse, Single Thread, in coils of 8 yards ..	Vict.	200,000 coils	coil	0 0 8		
496	Gelignite, 50 per cent., delivered f.o.r. Laverton	"	200 cases	case of 50 lb. net	2 15 6	} McMicking & Co.	
497	Powder, Nitrate of Potash, Blasting, in 25-lb. or 50-lb. kegs, delivered f.o.r. Laverton	U.K.	20,000 lb.	100 lb.	4 3 4		
498	Powder, Blasting, Black, in 25-lb. or 50-lb. Kegs, as ordered, delivered f.o.r. Laverton	"	1,000 lb.	100 lb.	4 3 4		
AMMUNITION.							
499	Cartridges, Smokeless, .32 calibre, in boxes of 25 or 50—						
500	Auto. Pistol, "Browning F.N." .. Nil.	Belgium	5,000	100	0 8 3	Alcock & Pierce Pty. Ltd.	

PHOTOGRAPHIC MATERIALS.

(1.7.1930 to 30.9.1931.)

The rates in the contract with Arthur Cocks & Co. Pty. Ltd. are based on T.T. Exchange at 6½ per cent. In the event of there being any alteration in the published bank rate of T.T. Exchange on the date of delivery, the contract rate shall be adjusted. The calculations shall be made on 60 per cent. as representing the c.i.f. value.

As regards the contract with Arthur Cocks & Co. Pty. Ltd. and Item No. 549 with Kodak (Aust.) Pty. Ltd., sufficient time is to be allowed for importation to meet initial orders.

501	Albums, 12 leaf, loose leaf, 9½" x 6½" ..	Vict.	300	each	0 2 1	} Kodak (Aust.) Pty. Ltd.
Chemicals, Pure—						
502	Acid, Acetic (Glacial)	"	12 lb.	lb.	0 2 10	} Felton, Grimwade & Co. Pty. Ltd.
503	" Citric	U.K.	2 "	do.	0 2 6	
504	" Pyrogallic, in 2-lb. bottles	"	12 "	do.	0 8 9	
505	Alcohol, Absolute	Vict.	12 "	do.	0 9 0	} Felton, Grimwade & Co. Pty. Ltd.
506	Amidol	Germany	25 "	do.	0 9 0	
507	Ammonium Chloride	U.K.	3 "	do.	0 0 7	} H. B. Selby & Co.
508	" Iodide	"	3 "	do.	1 6 0	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
PHOTOGRAPHIC MATERIALS—continued.								
<i>Chemicals, Pure—continued.</i>								
509	Amylum, Pulverised	Vict.	14 lb.	lb.	0	0	6	} Felton, Grimwade & Co. Pty. Ltd.
510	Barium Sulphide	U.K.	3 "	do.	0	1	9	
511	Cadmium Bromide	"	3 "	do.	0	8	0	} H. B. Selby & Co.
512	" Iodide	"	2 "	do.	1	5	0	
513	Chromè Alum	"	20 "	do.	0	0	5	} Felton, Grimwade & Co. Pty. Ltd.
514	Collodion, 2 per cent., enamel, in tins of 28 lb.	N.S.W.	112 lb.	do.	0	3	10		Middows Bros. & Linton Ltd.
515	Copper, Sulphate of	U.K.	14 lb.	lb.	0	0	5	} Felton, Grimwade & Co. Pty. Ltd.
516	Dextrine, White	"	114 "	do.	0	0	4	
517	Ether, Sulphuric	N.S.W.	4 "	do.	0	2	6	} Nil
518	Ferric Ammonium Citrate (green)	"	Nil	..	..	..	..
519	" " (brown)	U.K.	25 lb.	lb.	0	3	11	} Felton, Grimwade & Co. Pty. Ltd.
520	Hydroquinone	Germany	4 "	do.	0	4	8		Henry H. York & Co. Pty. Ltd.
521	Iodine (Resublimed)	U.K.	2 "	do.	1	3	6	} Felton, Grimwade & Co. Pty. Ltd.
522	Iron, Sulphate of, Pure	Vict.	14 "	do.	0	0	3		H. B. Selby & Co.
523	Mercury, Bichloride	U.K.	2 "	do.	0	6	10	} Felton, Grimwade & Co. Pty. Ltd.
524	Metol	France	2 "	do.	0	10	0		} Kodak (Aust.) Pty. Ltd.
525	Opaque, "Eastman's" No. 1 size	U.S.A.	15 tubes	tube	0	0	11	} Norman G. Clark
526	Potassium Bichromate	U.K.	100 lb.	lb.	0	0	7½		} Felton, Grimwade & Co. Pty. Ltd.
527	" Bromide	Germany	20 "	do.	0	1	9	
528	" Ferricyanide	U.K.	30 "	do.	0	2	2	} Kodak (Aust.) Pty. Ltd.
529	" Iodide	"	10 "	do.	0	18	11		Felton, Grimwade & Co. Pty. Ltd.
530	" Metabisulphite	Germany	12 "	do.	0	1	2	} Henry H. York & Co. Pty. Ltd.
531	" Permanganate	"	3 "	do.	0	0	9		Felton, Grimwade & Co. Pty. Ltd.
532	Powder, Flash, Kotinic	U.K.	2 "	do.	1	6	3	} Kodak (Aust.) Pty. Ltd.
533	Sheets, Flash, size No. 3	U.S.A.	6 pkts	pkt.	0	4	4	
534	Soda, Hyposulphite	Vict.	10 cwt.	cwt.	0	19	6	} Felton, Grimwade & Co. Pty. Ltd.
535	" Sulphide	U.K.	6 lb.	lb.	0	1	7	
536	" Sulphite (Anhydrous)	Germany	300 "	do.	0	0	3½	} Henry H. York & Co. Pty. Ltd.
537	" Carbonate	Vict.	28 "	do.	0	0	3½		} Felton, Grimwade & Co. Pty. Ltd.
538	Oil of Cloves	U.K.	2 "	do.	0	10	4	
<i>Film—</i>								
539	Cine, in 100-ft. rolls, "Kodak"	U.S.A.	6 rolls	roll	0	19	6	} Kodak (Aust.) Pty. Ltd.
539A	" Panchromatic, in 100-ft. rolls, "Kodak"	"	6 "	do.	1	4	5	
539B	" Kodacolor, in 50-ft. rolls, "Kodak"	"	6 "	do.	1	2	6	} Henry H. York & Co. Pty. Ltd.
539C	" Negative Non-reversing, in 100-ft. rolls	Germany	12 "	do.	0	13	0	
540	Cut Par Speed, 4½" x 3½"	Vict.	1 gross	gross	1	2	6	} Kodak (Aust.) Pty. Ltd.
541	" " 5" x 4"	"	1 "	do.	1	16	0	
542	" " 9 c.m. x 12 c.m.	"	1 "	do.	1	13	9	} Kodak (Aust.) Pty. Ltd.
543	" Super Speed, 4½" x 3½"	"	1 "	do.	1	7	0	
544	" " 5" x 4"	"	1 "	do.	2	2	9	} Arthur Cocks & Co. Pty. Ltd.
545	" " 6½" x 4½"	"	3 "	do.	2	16	3	
546	" " 9 c.m. x 12 c.m.	Belgium	1 "	do.	1	11	6	
<i>Panchromatic, Commercial—</i>								
547	4½" x 3½", "Eastman"	U.S.A.	1 "	do.	2	5	0	} Kodak (Aust.) Pty. Ltd.
548	6½" x 4½", "Eastman"	"	1 "	do.	4	12	3	
549	9 c.m. x 12 c.m.	"	1 "	do.	3	15	0	
<i>Spools, Photographic Roll, 6 exposures—</i>								
550	2½" x 3½"	Vict.	24 rolls	roll	0	0	10½	} Kodak (Aust.) Pty. Ltd.
551	2½" x 4½"	"	72 "	do.	0	1	0½	
552	3½" x 4½"	"	15 "	do.	0	1	5½	
553	3½" x 5½"	"	150 "	do.	0	1	8½	
554	5" x 4"	"	10 "	do.	0	1	8½	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
PHOTOGRAPHIC MATERIALS—continued.							
555	Gelatine, Sheet, "Davis A. Grade" ..	N.S.W.	2 bales	cwt.	9 10 0	Davis Gelatine Pty. Ltd.	
555A	Glazing Solution, concentrated 1 to 80, in winchesters	Vict.	6 quarts	quart	0 13 9	Kodak (Aust.) Pty. Ltd.	
556	Glue, Sheet, "Trumpet"	14 lb.	lb.	..	Nil	
	Measures, Glass—						
557	2 oz., R.O.C. ..	U.S.A.	3	each	0 0 9	Kodak (Aust.) Pty. Ltd. Felton, Grimwade & Co. Pty. Ltd.	
558	10 oz. ..	U.K.	6	do.	0 1 4		
559	20 oz. ..	"	6	do.	0 2 0		
	Mounting, Tissue, Dry—						
560	24" x 20" ..	Vict.	1 ream	ream	5 15 0	Kodak (Aust.) Pty. Ltd.	
561	8½" x 6½", in boxes of 1 gross ..	"	2 gross	gross	0 5 4		
†562	Mounts, 8 sheet, 31" x 25" Board, Rough edge, Grade CX., Brown, Grey or White, as ordered	"	100	100	3 19 0		
†563	Mounts, 4 sheet, 30" x 24", Cream, White, or Brown, as ordered	"	100	100	3 3 0		
	Paper, Bromide, Single Weight, any surface ordered—						
564	25' long x 25" wide, "Pearl" ..	"	24 rolls	roll	1 0 7	Kodak (Aust.) Pty. Ltd.	
565	25' long x 30" wide, "Pearl" ..	"	2 "	do.	1 4 5		
566	5½" x 3½" ..	Belgium	1,000 sheets	1,000	2 3 6	Arthur Cocks & Co. Pty. Ltd.	
567	6½" x 4½", "Pearl" ..	Vict.	15,000 "	do.	3 16 10	Kodak (Aust.) Pty. Ltd.	
568	8½" x 6½" ..	Belgium	7,000 "	do.	6 4 1	Arthur Cocks & Co. Pty. Ltd.	
569	10" x 8" "Pearl" ..	Vict.	8,000 "	do.	9 19 6	Kodak (Aust.) Pty. Ltd.	
570	12½" x 10½" ..	Belgium	12 gross	gross	2 2 6		
571	15½" x 12½" ..	"	7 "	do.	3 2 8	Arthur Cocks & Co. Pty. Ltd.	
572	18" x 16" ..	"	1 "	do.	4 13 3		
573	20" x 16" ..	"	1 "	do.	5 3 6		
574	25" x 14½" ..	"	1 "	do.	5 18 6		
575	28" x 16" ..	"	1 "	do.	7 5 0		
	Paper, Bromide, Double Weight, any surface ordered—						
576	25' long x 25" wide ..	"	10 rolls	roll	1 1 0		Arthur Cocks & Co. Pty. Ltd.
577	25' long x 30" wide ..	"	6 "	do.	1 5 0		
578	6½" x 4½" ..	"	1,000 sheets	1,000	3 16 3		
579	8½" x 6½" ..	"	1,000 "	do.	6 18 0		
580	10" x 8" ..	"	2,500 "	do.	9 18 0		
581	12½" x 10½" ..	"	2 gross	gross	2 6 9		
582	15½" x 12½" ..	"	4 "	do.	3 8 11		
583	18" x 16" ..	"	1 "	do.	5 2 6		
584	20" x 16" ..	"	1 "	do.	5 14 0		
585	25" x 14½" ..	"	5 "	do.	6 10 4		
586	28" x 16" ..	"	1 "	do.	7 19 6		
	Paper, Bromide, Double Weight—						
587	Wellington Cream, Crayon, 12½" x 10½" ..	"	1 "	do.	2 15 0	Kodak (Aust.) Pty. Ltd.	
588	" " " " 15½" x 12½" ..	"	1 "	do.	4 0 0		
588A	Portrait, 8½" x 6½" ..	"	2 "	do.	1 2 6		
588B	" " 10" x 8" ..	"	2 "	do.	1 12 0		
589	" " 12½" x 10½" ..	"	2 "	do.	2 15 0		
590	" " 15½" x 12½" ..	"	1 "	do.	4 0 0		
591	" " 23" x 17" ..	"	1 "	do.	7 16 0		
592	Paper Pearl Bromide, Post Cards ..	Vict.	2,000	1,000	2 8 9		
	Plates, Orthochromatic, backed, "Imperial Eclipse"—						
593	4½" x 3½" ..	U.K.	6 gross	gross	2 3 3		Kodak (Aust.) Pty. Ltd.
593A	5" x 4" ..	"	3 "	do.	3 9 7		
594	6½" x 4½" ..	"	14 "	do.	4 4 0		
594A	8½" x 6½" ..	"	3 "	do.	7 11 2		
595	Plates, Lantern, "Austral", 3½" x 3½" ..	Vict.	2 "	do.	1 2 6		
	Plates, Photographic, Dry, Orthochromatic, backed, "Austral"—						
596	½" ..	"	2 doz.	doz.	0 2 1	Kodak (Aust.) Pty. Ltd.	
597	½" ..	"	6 "	do.	0 4 10		
598	½" ..	"	40 "	do.	0 8 7		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
PHOTOGRAPHIC MATERIALS—continued.								
599	Plates, Process, "Austral"— 8½" x 6½"	Vict.	12 doz.	doz.	0	7	10	Kodak (Aust.) Pty. Ltd.
600	12" x 10"	"	6 "	do.	0	19	6	
601	15" x 12"	"	6 "	do.	1	14	6	
602	Plates, Process, Panchromatic, "Austral"— 8½" x 6½"	"	2 "	do.	0	10	1	
603	12" x 10"	"	2 "	do.	1	4	4	
604	15" x 12"	"	2 "	do.	2	3	1	
605	Plates, backed, "Speedway Austral"— 4½" x 3½"	"	2 gross	gross	1	14	6	
606	5" x 4"	"	2 "	do.	2	9	6	
607	6½" x 4½"	"	2 "	do.	3	12	0	
608	Plates, Panchromatic, Double Coated, "Wratten"— 6½" x 4½"	U.S.A.	3 doz.	doz.	0	7	8	
609	8½" x 6½"	"	3 "	"	0	13	10	
610 to 616	Nil.							

TUBES AND FITTINGS.

(1.7.1930 to 30.9.1931.)

The estimated requirements are based on the full list price.

The Contractor will require to have all Galvanized Tubes supplied under Items marked (M) tested by the Melbourne and Metropolitan Board of Works, and such Tubes shall bear that Board's test marks before delivery.

All Tubes and Fittings to be of standard weight and of "Whitworth's" Gauge of Gas Threads.

As regards Items Nos. 617 to 624A two Tenders have been accepted, and the value of orders placed should be as far as possible equally divided. The Corporation will pay the Contractors the Associated Banks Published Rate of Exchange for sight drafts London on Australia ruling on the date of delivery of any stores ordered, calculated on 80 per cent. of the contract rate which is regarded as the c.i.f. value for any stores delivered.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Percentage off the "Price Lists" submitted with the tender and current from time to time during the period of this Contract.	Name of Contractor.
617	Tubes, Wrought Iron, of approved thickness, in trade lengths, as ordered—			£		
617A	Black, up to 3" diameter	U.K.		300	60%	Elder, Smith & Co. Ltd.
618	" " " " " "	"		40	60%	Stewarts & Lloyds (Aust.) Ltd.
618A	" over 3" and up to 6" diameter	"		40	35%	Elder, Smith & Co. Ltd.
619	" " " " " "	"		40	35%	Stewarts & Lloyds (Aust.) Ltd.
619A	Galvanized, up to 3" diameter	"		1,300	50%	Elder, Smith & Co. Ltd.
620	" " " " " "	"		90	50%	Stewarts & Lloyds (Aust.) Ltd.
620A	" over 3" and up to 6" diameter	"		90	30%	Elder, Smith & Co. Ltd.
621	" " " " " "	"		500	30%	Stewarts & Lloyds (Aust.) Ltd.
621A	(M) Galvanized, up to 3" diameter	"		500	45%	Elder, Smith & Co. Ltd.
622	(M) " " " " " "	"		40	45%	Stewarts & Lloyds (Aust.) Ltd.
622A	(M) Galvanized, over 3" and up to 6" diameter	"		40	25%	Elder, Smith & Co. Ltd.
623	" (M) " " " " " "	"		40	25%	Stewarts & Lloyds (Aust.) Ltd.
623A	Steam, screwed and socketed, up to 3" diameter	"		1,300	51¼%	Elder, Smith & Co. Ltd.
624	" " " " " "	"		1,300	51¼%	Stewarts & Lloyds (Aust.) Ltd.
624A	" screwed and socketed, over 3" and up to 6" diameter	"		200	31¼%	Elder, Smith & Co. Ltd.
624A	" " " " " "	"		200	31¼%	Stewarts & Lloyds (Aust.) Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<i>TUBES AND FITTINGS—continued.</i>						
625	Bends, Long Screws, and Springs, Wrought Iron, of approved thickness— Galvanized, up to 3" diameter	150	} Nil
626	" over 3" and up to 6" diameter .. ..	.. ..	10	.. ..	.. ..
	Fittings, Wrought Iron, of approved thickness—					
627	Black, up to 2" diameter .. ..	.. ..	250	.. ..	.. ..
628	" 2½" and up to 6" diameter .. ..	.. ..	10	.. ..	.. ..
629	Galvanized, up to 2" diameter .. ..	.. ..	350	.. ..	.. ..
630	" 2½" and up to 6" diameter .. ..	.. ..	25	.. ..	.. ..
631	Steam, up to 2" diameter .. ..	.. ..	250	.. ..	.. ..
632	" 2½" and up to 6" diameter .. ..	.. ..	50	.. ..	.. ..
	Fittings, Malleable Iron, of approved thickness—					
633	Black, up to 2" diameter .. ..	.. ..	25	.. ..	.. ..
634	" 2½" and up to 6" diameter .. ..	.. ..	5	.. ..	.. ..
635	Galvanized, up to 2" diameter .. ..	.. ..	30	.. ..	.. ..
636	" 2½" and up to 6" diameter .. ..	.. ..	10	.. ..	.. ..
637	Steam, up to 2" diameter .. ..	.. ..	10	.. ..	.. ..
638	" 2½" and up to 6" diameter .. ..	.. ..	5	.. ..	.. ..
639						
to	Nil					
642						

SCREWS AND SPLIT PINS.

(1.7.1930 to 30.9.1931.)

The estimated requirements are based on the full list price.

As regards Item No. 650, the Corporation accepts the tender of McPherson's Pty. Ltd. for the supply and delivery of Screws of Victorian manufacture, but agrees that if at any time the Corporation orders sizes not manufactured locally, the Contractor shall have the right to supply on approval Screws of British manufacture at the contract rate. This concession shall also apply if the local manufacturer shall delay manufacture for an unreasonable period, and if the Comptroller of Stores certifies that he is unable to wait until the local material is available.

Name of Manufacturer—

- Items Nos. 643 to 651, 679 and 681.—Nettlefolds, Sunshine.
- Items Nos. 653 to 663 and 666 to 673.—McPherson's own make.
- Items Nos. 674 to 678.—Duly and Hansford, New South Wales.
- Items Nos. 679A, 680 and 682.—A. E. and F. Tame, own make.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Percentage off or on the Price List submitted with the tender and current during the period of Contract.	Name of Contractor.	
	Screws, any sizes ordered—						
	Wood, Brass, countersunk—						
643	Up to and including 12 gauge	Vict.	£400	+2½%	} E. Duckett & Sons	
644	13 to 18 gauge				+2½%		
	Wood, Brass, round head—						
645	Up to and including 12 gauge	" "	£300	.. ..	+2½%	
646	13 to 18 gauge				+2½%		
647	Wood, Brass, raised head	" "	£5	.. ..	+6¼%	
648	" Iron, countersunk	" "	£1,000	.. ..	-31½%	
649	" " round head, japanned	" "	£30	.. ..	-31½%	
650	Stove Brass, round, countersunk or cheese head, as ordered, any trade sizes ordered, up to ½"	" "	200 gross	gross	-38½%		McPherson's Pty. Ltd.
651	" Iron, round or countersunk, as ordered, any trade sizes ordered, up to ¾"	" "	900	do.	-40%		E. Duckett & Sons
652	" Iron, round head, 1" x ½"	20	do.		Nil	

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.		
					£ s. d.			
SCREWS AND SPLIT PINS—continued.								
Screws, Coach, Square head, Gimlet pointed—								
653	2" x 1/2"	Vict.	1 cwt.	cwt.	2 14 0	} McPherson's Pty. Ltd.		
654	2 1/2" x 1/2"	"	2 "	do.	2 11 0			
655	3" x 1/2"	"	2 "	do.	2 9 0			
656	5" x 3/4"	"	4 "	do.	1 13 0			
657	Any lengths ordered x 3/8"	"	5 "	do.	3 6 0			
658	Sizes other than Items 653 to 657 inclusive, in 1/2", 5/8", or 3/4" diameter, as ordered	"	10 "	do.	2 9 0			
Screws, Coach, Square head, Patent pointed—								
659	2 1/2" x 1/2" x 7/8" head	"	80 "	do.	2 4 0			
660	4 1/2" x 3/8" x 1 1/8" head	"	5 "	do.	1 13 0			
661	4 1/2" x 3/8" x 1 1/16" head	"	20 "	do.	1 13 0			
662	5" x 3/4" x 1 3/16" head	"	60 "	do.	1 9 0			
663	Sizes other than Items 659 to 662 inclusive, as ordered	"	40 "	do.	2 4 0			
Screws, Set, Brass, Hex. Head—								
664	1" x 5/16"	"	1 gross	gross	..	} Nil		
665	1" x 3/8"	"	1 "	do.	..			
Screws, Set, Black, Hex. Head—Whitworth head and thread—								
666	1" x 3/8"	Vict.	5 "	do.	0 6 6	} McPherson's Pty. Ltd.		
667	1" x 1/2"	"	6 "	do.	0 8 8			
668	1 1/2" x 1/2"	"	3 "	do.	0 9 2			
669	1 1/2" x 3/4"	"	4 "	do.	0 9 8			
670	1 1/2" x 5/8"	"	1 "	do.	0 7 11			
671	2" x 3/8"	"	2 "	do.	0 8 6			
672	2" x 1/2"	"	2 "	do.	1 11 0			
673	2 1/2" x 5/8"	"	1 "	do.	1 3 0			
Screws, Set, Bright, Hex. Head—Whitworth head and thread—								
674	1" x 3/8"	N.S.W.	3 "	do.	0 13 6	} James Walker		
675	1 1/2" x 3/4"	"	1 "	do.	2 9 0			
676	1 1/2" x 5/8"	"	1 "	do.	3 8 3			
677	2" x 7/8"	"	1 "	do.	3 11 8			
678	2" x 1/2"	"	5 "	do.	1 9 3			
Pins, Split—								
679	Any sizes ordered up to and including 3/16"	Vict.	} £300	}	-58%	E. Duckett & Sons		
679A	Any sizes ordered over 3/16" to 1/4"	"					-57 1/2%	A. E. & F. Tame
680	Any sizes ordered over 1/4"	"					-52 1/2%	
681	6" x 1/4"	"	12 gross	gross	1 2 0	E. Duckett & Sons		
682	7" x 1/2"	"	6 "	do.	2 7 9	A. E. & F. Tame		
683 to 685	} Nil				-45%			

NAILS, ETC.

(1.7.1930 to 30.9.1931.)

Tenderer to state gauge of 1" Panel Pins offered under Item No. 753.

The tacks required under Items Nos. 769 and 771 are required for upholsterers' use, and shall be clean.

The Chaplets required under Items Nos. 777 to 782 shall be tinned and not lead coated.

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
Brads, Finishing, Cut—						
686	1/2"	"	7 lb.	lb.	..	} Nil
687	3/8"	"	56 "	do.	..	
688	1/2"	"	56 "	do.	..	
689	3/8"	"	28 "	do.	..	
690	1"	"	21 "	do.	..	
691	1 1/4"	"	7 "	do.	..	
692	1 1/2"	"	7 "	do.	..	
693	2"	"	7 "	do.	..	
694	Brads, Moulders, 4"	"	Nil		..	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
NAILS, ETC.—continued.								
	Nails, Clout, Wire—							
695	1 1/2", bright		56 lb.	lb.				
696	5/8", "		14 "	do.				
697	3/4", "		672 "	do.				
698	1", "		336 "	lb.				
699	1 1/2", "		7 "	do.				
700	3/4", galvanized		3 cwt.	cwt.				
701	1", "		8 "	do.				
702	1 1/4", "		3 "	do.				
703	1 1/2", "		1 "	do.				
704	Nails, Chair, Oxidized		10,000	1,000				
	Nails, Countersunk, Crown and W. Brand, or other approved make—							
705	2"		1 cwt.	cwt.				
706	2 1/2"		2 "	do.				
707	Nails, Dog, 2 1/2" x 5/16", "Clyde" brand, or any suitable alternative		Nil					
708	Nails, Dog, 3" x 1/4", "Clyde" brand, or any suitable alternative		Nil					
	Nails, Horseshoe, full or half counter, "Cape-well's," or any suitable alternative			Box of				
709	Size 4		25 lb.	25 lb.				
710	" 5		50 "	do.				
711	" 6		100 "	do.				
712	" 8		100 "	do.				
713	" 10		50 "	do.				
714	" 12		50 "	do.				
	Nails, Roofing, Galvanized, Spring-head, in 1-cwt. cases—							
715	2"		33 cwt.	cwt.				
716	2 1/4"		18 "	do.				
717	2 3/4"		9 "	do.				
718	3"		1 "	do.				
719	Nails, Slaters', Copper, 1 1/2"		28 lb.	lb.			Nil	
	Nails, Steel, Black—							
720	3"		1 cwt.	cwt.				
721	4"		30 "	do.				
722	5"		25 "	do.				
723	6"		100 "	do.				
724	7"		60 "	do.				
725	8"		6 "	do.				
	Nails, Steel, Galvanized—							
726	3"		5 "	do.				
727	4"		7 "	do.				
728	5"		1 "	do.				
729	Nails, Wire, Brads, Flooring, 10 gauge, any lengths ordered		5 "	do.				
	Nails, Wire, Diamond-headed, any lengths ordered—							
730	No. 4		30 "	do.				
731	No. 5		6 "	do.				
732	No. 6		200 "	do.				
733	No. 7		40 "	do.				
734	No. 8		100 "	do.				
735	No. 9		150 "	do.				
736	No. 10		100 "	do.				
737	No. 11		40 "	do.				
738	No. 12		100 "	do.				
739	No. 13		10 "	do.				
740	No. 14		10 "	do.				
741	No. 15		5 "	do.				
	Nails, Wire, Flat Head—							
742	1" x 15 gauge		4 "	do.				
743	1 1/2" x 15 gauge		1 "	do.				
744	2" x 11 gauge		1 "	do.				
745	1" x 14 gauge		1 "	do.				

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per--	Rate.			Name of Contractor.
					£	s.	d.	
<i>NAILS, ETC.—continued.</i>								
	Pins, Gimp, japanned—							
746	.. .. .	.. .. .	400 lb.	lb.	..	..
747	.. .. .	.. .. .	80 "	do	..	..
748	.. .. .	.. .. .	20 "	do	..	..
	Pins, Panel, countersunk—							
749	.. .. .	.. .. .	28 "	do.	..	..
750	.. .. .	.. .. .	28 "	do.	..	..
751	.. .. .	.. .. .	112 "	do.	..	..
752	.. .. .	.. .. .	28 "	do.	..	..
753	1" .. .. .	.. .. .	224 "	do.	..	..
754	1 1/4" .. .. .	.. .. .	168 "	do.	..	..
755	1 1/2" .. .. .	.. .. .	336 "	do.	..	..
756	1 3/4" .. .. .	.. .. .	84 "	do.	..	..
757	2" .. .. .	.. .. .	112 "	do.	..	..
	Staples, Galvanized Wire—							
758	.. .. .	.. .. .	7 "	do.	..	..
759	.. .. .	.. .. .	7 "	do.	..	..
760	.. .. .	.. .. .	56 "	do.	..	..
761	1" .. .. .	.. .. .	112 "	do.	..	..
*762	Staples, Galvanized Wire, for fencing, 1 1/2" x 8 gauge	.. .. .	15 cwt.	cwt.	..	..
	Tacks, Copper—							
763	.. .. .	.. .. .	25 lb.	lb.	..	..	} Nil	
764	.. .. .	.. .. .	500 "	do.	..	..
765	.. .. .	.. .. .	25 "	do.	..	..
766	Tacks, coppered, double-pointed, 3/8"	.. .. .	6 "	do.	..	..
	Tacks, Cut, blued, fine—							
767	1" .. .. .	.. .. .	10 "	do.	..	..
768	.. .. .	.. .. .	50 "	do.	..	..
769	.. .. . for upholsterers	.. .. .	200 "	do.	..	..
770	.. .. .	.. .. .	1,000 "	do.	..	..
771	.. .. . for upholsterers	.. .. .	400 "	do.	..	..
772	.. .. .	.. .. .	300 "	do.	..	..
773	.. .. .	.. .. .	30 "	do.	..	..
	Tacks, Cut, tinned, best--							
774	1" .. .. .	.. .. .	14 "	do.	..	..
775	.. .. .	.. .. .	14 "	do.	..	..
776	.. .. .	.. .. .	609 "	do.	..	..
776A	2" .. .. .	.. .. .	28 "	do.	..	..
	Chaplets, Box—							
777	1" .. .. .	.. .. .	50 "	do.	..	..
778	.. .. .	.. .. .	50 "	do.	..	..
779	.. .. .	.. .. .	50 "	do.	..	..
780	1" .. .. .	.. .. .	50 "	do.	..	..
	Chaplets—							
781	8" long x 1/4"	.. .. .	80 "	do.	..	..
782	8" long x 3/8"	.. .. .	80 "	do.	..	..

ARTISTS' COLOURS, ETC.

(1.7.1930 to 30.9.1931.)

	Colours—						
783	Blue, French	6 sticks	stick	} Nil
784	" Prussian ..	.. .. .	3 "	do.	..	..
785	Carmine ..	.. .. .	6 "	do.	..	..
786	Crimson Lake ..	.. .. .	3 "	do.	..	..
787	Cobalt ..	.. .. .	3 "	do.	..	..
788	Gamboge ..	.. .. .	6 "	do.	..	..
788	Green, Emerald ..	.. .. .	3 "	do.	..	..
789	Green, Emerald ..	.. .. .	4 "	do.	..	..
790	" Hooker's, No. 1 ..	.. .. .	4 "	do.	..	..
791	Green, Hooker's, No. 2 ..	.. .. .	4 "	do.	..	..
792	Grey, "Payne's" ..	.. .. .	4 "	do.	..	..
793	Indian Ink ..	.. .. .	10 oz.	oz.	..	..
794	Sienna, Burnt ..	.. .. .	6 sticks	stick	..	..
795	Scarlet Lake ..	.. .. .	3 "	do.	..	..
796	Vermilion ..	.. .. .	50 "	do.	..	..
797	White, Chinese ..	.. .. .	12 bottles	bottle	..	..
798	Yellow Ochre ..	.. .. .	2 sticks	stick	..	..

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ARTISTS' COLOURS, ETC.—continued.						
799	Colours, Liquid, Indian Ink—					
	Black, in 1-oz. bottles, with quill filler ..	Vict.	600 bottles	bottle	0 0 10½	Wiltshires Pty. Ltd.
800	Any other colours ..	..	80 "	do.	..	
*801	Palettes, in nests ..	..	3 nests	nest	..	
802 to 804	Nil.					

STAMPS, ETC.

(1.7.1930 to 30.9.1931.)

The measurement of all Stamps shall be the "Die" measurement, and the maximum length of any letter shall not exceed ½ inch.

H. C. Horton will supply any class of type required.

*805	Faces, Rubber, for Stamps, lettered—					
	" V.R., cancelled " ..	Vict.	120	each	0 0 2	H. C. Horton
*806	" Week-end " ..	..	60	do.	0 0 2	
*807	Goods Clean Receipt ..	..	30	do.	0 0 5	
*808	Goods more or less Receipt ..	..	12	do.	0 0 5	
Refacing Rubber Stamps, including supply of new pad, all types—						
809	Oblong, up to 2", as ordered ..	"	100 lines	line	0 1 2	H. C. Horton
810	" over 2" ..	"	100 ins. of line	inch of line	0 0 7	
811	Circular or oval, and up to 1½", as ordered ..	"	3	each	0 2 0	
812	" " and over 1½", as ordered ..	"	15 ins.	½ inch	0 0 8	
Stamps, "Dating"—						
† { 813	No. 1½ ..	"	400	each	0 0 9	E. L. Morton Pty. Ltd.
814	No. 2 ..	"	300	do.	0 1 0	
Stamps, Rubber, oblong, wooden handle, with wooden back, all types—						
* { 815	Up to 2", as ordered ..	Vict.	1,000 lines	line	0 0 9	H. C. Horton
816	Over 2", as ordered ..	"	1,500 ins. of line	inch of line	0 0 4	
Stamps, Rubber, circular or oval, as ordered, wooden handle with wooden backs, all types—						
† { 817	Up to 1½", as ordered ..	"	6	each	0 2 3	H. C. Horton
818	Over 1½", as ordered ..	"	20 ins.	½ inch	0 0 8	
Stamps, Rubber, self-inking—						
† { 819	1½" x ¾" ..	"	20	each	0 5 9	Nil
820	1¼" x ¾" ..	"	20	do.	0 6 6	
Stamps, Rubber, self-inking, nickel, oblong or round, as ordered—						
† { 821	Up to 2", as ordered ..		Nil	do.	..	Nil
822	Over 2" to 3", as ordered ..			do.	..	
823	Over 3" to 4", as ordered ..			do.	..	
Pads, Self-inking, any colour ordered (mostly purple)—						
† { 824	No. 1 ..	N.S.W.	400	do.	0 1 0½	Sands & McDougall Pty. Ltd.
825	No. 2 ..	"	30	do.	0 1 5½	
826 to 830	Nil					

BOOKS, ETC.

(1.7.1930 to 30.9.1931.)

Samples of the paper which it is proposed to use in the Books, &c., supplied under Items 834 to 843 and Items 844 to 857, have been lodged.

As regards Items Nos. 834 to 843, the paper used in the Copying Books shall be "Averil Star" brand.

As regards Items Nos. 831, 832, and 833—the rates tendered include the provision of the 50 per cent. surcharge in Customs Duty.

In the event of such surcharge being removed by the Commonwealth Government, the rates shall revert to 2s. 1½d., 1s. 11½d., and 1s. 9½d. respectively on all orders placed after the expiration of the period of two months from the date of the gazettal of the removal of such surcharge duties.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
BOOKS, ETC.— <i>continued.</i>						
	Binders, Instantaneous—					
†831	Foolscap	U.K.	180	each	0 2 5½	
†832	Large Quarto	"	12	do.	0 2 3½	
†833	Small Quarto	"	12	do.	0 2 0½	
	Books—					
*834	Copying, Crown folio, 500 leaves paged, ¼ basil, with index	Vict.	100	do.	0 9 11	Sands & McDougall Pty. Ltd.
*835	" Crown Folio, 500 leaves not paged, and no index, ¼ basil	"		do.	0 7 6	
*836	" Crown folio, 750 leaves paged, ½ basil, with index	"	40	do.	0 16 7	
*837	" Crown Folio, 750 leaves not paged, no index, ½ basil	"	40	do.	0 14 8	
*838	" Large Post folio, 750 leaves paged, ½ basil, with index	"	40	do.	0 19 11	
*839	" Large Post Folio, 750 leaves not paged, no index, ½ basil	"	40	do.	0 17 8	
*840	" Large Post Folio, 750 leaves paged, ¼ basil	"	72	do.	0 15 0	
*841	" Large Post Folio, 750 leaves not paged, no index, ¼ basil	"	72	do.	0 13 11	
*842	" Double Crown folio, 750 leaves paged, ½ basil	"	3	do.	1 6 6	
*843	" Double Crown Folio, 750 leaves not paged, no index, ½ basil	"	3	do.	1 5 0	
*844	Foolscap, ruled, ¼ cloth, 2 quire ..	"	1,000	do.	0 1 0	Spicers & Detmold Ltd.
(845	" ruled faint, ½ basil, 2 quire ..	"	350	do.	0 5 2	
*846	" " ½ basil, 3 quire ..	"	60	do.	0 6 4	
*847	" " ½ basil, 4 quire ..	"	170	do.	0 7 3	
*848	" " single or double cash, paged or folioed, as ordered, ½ basil, 4 quire	"	25	do.	0 7 9	
*849	Indices, Foolscap, marble cover, one leaf to a letter	"	70	do.	0 0 5½	Sands & McDougall Pty. Ltd.
*850	" " hand made, full basil, one leaf to a letter	"		do.	0 7 9	
*850A	" " ¼ basil, cloth sides turned in, on paper to sample. All tabs reinforced with linen as contract sample, one leaf to a letter	"	10	do.	0 4 9	Spicers & Detmold Ltd.
*851	" " hand made, full basil, two leaves to a letter	"		do.	0 10 3	Sands & McDougall Pty. Ltd.
*851A	" " ¼ basil, cloth sides turned in, on paper to sample. All tabs reinforced with linen as contract sample, two leaves to a letter	"		do.	0 6 0	
*852	" " hand made, full basil, four leaves to a letter	"	100	do.	0 12 10	Sands & McDougall Pty. Ltd.
*852A	" " ¼ basil, cloth sides turned in, on paper to sample. All tabs reinforced with linen as contract sample, four leaves to a letter	"		do.	0 9 5	
*853	Books— Manifold, 5" x 8", 100 leaves, in duplicate, two sheets of single-sided carbon paper to be supplied with each book	Vict.	300 doz.	dozen	0 9 0	Lamson Paragon Ltd.
*854	" 14½" x 9", 100 leaves in triplicate, two page index in front, three sheets single-sided carbon paper to be supplied with each book	..	8 "	do.	..	Nil

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
<i>BOOKS, ETC.—continued.</i>								
*855	Books— Memo., Foolscap 8vo, 8 sheet, American cloth	Vict.	1,000	doz.	0	2	1	} Spicers & Detmold Ltd.
*856	„ Post 8vo, 18 sheet, full rexine ..	„	80	do.	0	7	6	
*857	„ Post 8vo, 18 sheet, full rexine indexed throughout	„	6	do.	0	10	6	
†358	Pocket, Metallic, Smith's 195	„	30	each	0	3	0	} Sands & McDougall Pty. Ltd.
†359	„ „ „ 197	„	6	do.	0	3	9	
†860	„ Penny's No. 136	„	6	do.	0	4	3	
†861	Refills for Penny's Pocket-books, No. 136	„	25	do.	0	0	5	
†862	Shorthand, note	„	600	do.	0	0	3	} Spicers & Detmold Ltd.
863	Diaries, Australian	„	£100	..	Percentage off Published Price Last current during period of this Contract. Less 35 %			} Sands & McDougall Pty. Ltd.
†864	Oil Sheets, hand made— Foolscap folio	„	12 doz. sheets	dozen sheets	0	1	2	} Spicers & Detmold Ltd.
†865	Large Post folio	„	12 „	do.	0	1	9	
866	} Nil.							
to								
868								

BROWN PAPER, PASTE, SYSTEM AND TICKET BOARDS, ETC.

(1.7.1930 to 30.9.1931.)

The Brown Paper under Item No. 870 shall be supplied flat or folded as may be ordered.

The Manila Luggage Checks shall be supplied in tiers of four, measuring 4½ in. x 7½ in. over all, slitted to within ¼ in. of top and bottom of each check, perforated across 2¼ in. from top; and packed in strawboard boxes each containing 1,000 checks.

The Royal Pasteboards shall be supplied in bundles of 1 gross each, and a label shall be attached to each bundle indicating the thickness of the Boards contained therein.

The Royal Surface Boards shall be supplied in bundles of 1 gross each, and a label shall be attached to each bundle indicating the colour of the Boards contained therein.

The Manila Ticket Boards shall be supplied in bundles of 50 each.

The Wood Pulp Boards shall caliper between .070 and .075.

As regards quality and finish, the Ticket Boards supplied shall be in strict accordance with the contract samples.

Ticket Boards shall caliper not less than .029 nor more than .032.

As regards colour, the Ticket Boards supplied shall be in strict accordance with the contract samples, and each delivery shall be marked with the Item No. to which it pertains.

The Ticket Boards shall be supplied trimmed to the exact size ordered, and shall be delivered in wrapped packages of one-half hundredweight each, exclusive of wrapper, and be free from moisture.

As regards the following items, the Contractors have included in their contract rate exchange on the following basis, and the difference between this and the published T.T. rate of exchange current on the date of delivery of the stores at Spencer-street will be adjusted.

The adjustment will be made on 80 per cent. of the contract value in lieu of sighting documents to determine the c.i.f. value :—

Gordon & Gotch (Aust.) Ltd. ; Item No. 898—1½ per cent. sight.

Wiggins, Peape, & A. Pirie (Aust.) Ltd. ; Items Nos. 888 to 893 and 899—1½ per cent. on demand.

Brown Paper, M. G. Finish—								
†869	Quad. Imperial, Kraft, 58" x 45", 136 lb.	Vict. or N.S.W.	10 reams	ream	2	2	6	} A. J. Wallace
†870	Double Imperial, Kraft, 56 lb. ..	„	10 tons	ton	35	0	0	
†871	Kraft, 18" wide, 28 lb. to roll ..	„	5 rolls	roll	0	8	9	
†872	„ in. rolls, 30" wide, 80 lb. Double Imperial Substance	„	200 „	do.	0	15	0	
†873	Sulphite, 17" x 27", 80 lb. ..	Vict.	20 reams	ream	1	5	0	} Australian Paper Manufacturers Ltd.
†874	„ Double Imperial, 120 lb. ..	„	6 „	do.	1	17	6	

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
BROWN PAPER, PASTE, SYSTEM, AND TICKET BOARDS., ETC.—continued.						
†875	Manila Luggage Checks—					
†876	Checks, Luggage, Red	Vict.	300,000	1,000.	0 3 4	} Spicers & Detmold Ltd.
†877	" " Yellow	"		do.	0 3 4	
†878	" " Green	"		do.	0 3 4	
†879	" " Blue	"		do.	0 3 4	
†880	" " White	"		do.	0 3 4	
†881	" " Brown	"	800,000	do.	0 6 0	Fahle & Whiting
	Checks, Luggage, 6½" x 2½", printed one side (four stereos supplied), two perforations. Washered. In gangs of four. Boxed in 1,000's	"			0 3 8	Spicers & Detmold Ltd.
Pasteboards, Surface Boards, &c.—						
†882	Royal Pasteboards, 20" x 25", 3 sheet, 21 lb.	"	600 gross	gross	0 9 0	} Australian Paper Manufacturers Ltd.
†883	" " 20" x 25", 6 sheet, 48 lb.	"	80 "	do.	1 1 0	
Royal Surface Boards, 20" x 25"—						
†884	Green	"	20 "	do.	1 0 0	} Sands & McDougall Pty. Ltd.
†885	Red	"	40 "	do.	1 4 7	
†886	Yellow	"	80 "	do.	0 18 9	
†887	Blue	"	10 "	do.	0 19 3	
System Boards, 25½" x 30½"—"Glory"—						
†888	Buff, 138 or 140 lb.	U.K.	50 reams	ream	4 10 0	} Wiggins, Teape, & Alex. Pirie (Export) Ltd.
†889	White, 138 or 140 lb.	"	6 "	do.	4 10 0	
†890	Salmon or Blue, as ordered, 138 or 140 lb.	"	4 "	do.	4 10 0	
†891	Any standard colour ordered, 110 lb. ..	"	45 "	do.	3 10 0	
†892	" " " 170 lb.	"	3 "	do.	5 9 0	
†893	" " " 220 lb.	"	5 "	do.	7 2 0	
Strawboard—						
†894	25" x 30", 12 oz., Plain	Vict.	6 cwt.	cwt.	0 18 0	} Australian Paper Manufacturers Ltd.
†895	25" x 30", 24 oz., Plain	"	8 "	do.	1 0 0	
Pulp Board—						
†896	Royal Pulp Board, four sheet, assorted light tints	"	400 gross	gross	0 8 6	} Australian Paper Manufacturers Ltd.
*897	Double White Lined Straw board, 34" x 44", 16 oz. substance	"	80 cwt.	ton.	21 10 0	
†898	Boards, Cloth Lined, 20" x 25", any standard colour ordered	U.K.	4 gross	gross	2 8 5	Gordon & Gotch (Aust.) Ltd.
†899	Board, Postcard, coated two sides, 22½" x 28½", 43 lb. per gross	"	40 "	do.	1 8 9	Wiggins, Teape, & Alex. Pirie (Export) Ltd.
Ticket Boards, 23" x 25"—						
†900	Buff	Vict.	3 tons	ton	32 0 0	} Australian Paper Manufacturers Ltd.
†901	Blue	"	3 "	do.	32 0 0	
†902	Cerise	"	15 "	do.	32 0 0	
†903	Green	"	5 "	do.	32 0 0	
†904	White	"	70 "	do.	32 0 0	
†905	Yellow	"	2 "	do.	32 0 0	
*906	Manila Ticket Board— 22" x 30"	Vict.	6,000 sheets	100 sheets	4 10 0	
Labels—						
*907	Linen, Large, No. 5	"	10,000	1,000	0 8 5	Sands & McDougall Pty. Ltd.
*908	" Small, 2½" x 2"	"	5,000	do.	0 6 0	Spicers & Detmold Ltd.
†909	Manila, No. 5, in gangs of four and boxed	"	500,000	do.	0 2 6½	Fahle & Whiting
†910	" No. 6, in gangs of four and boxed	"	600,000	do.	0 2 11.	Sands & McDougall Pty. Ltd.
†911	" 7" x 3½", in gangs of four and boxed	"	100,000	do.	0 3 11	
912. to 916	Nil.					

Item No.	Description	Country of Manufacture.	Estimated Requirements,	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

SANITARY PAPER (TOILET).

(1.7.30 to 30.9.1931.)

The Corporation undertakes to order up to the quantities shown opposite to Items 917 and 918A respectively.

Name of Manufacturer—

Item No. 919. The British Patent Perforated Paper Co. Ltd., Sydney, N.S.W.

†917	Paper, Sanitary, Toilet— Ordinary, in 10-oz. rolls, branded "Victorian Railways" on each sheet, perforated, 475 sheets per roll	Vict.	1,000 doz. rolls	dozen rolls	0 2 6	Spicers & Detmold Ltd.
†917A	Ordinary, in 10-oz. rolls, branded "Victorian Railways" on the end of each roll, perforated	..		do.	..	Nil
†918	Oval, in cases of 100 rolls, branded "Victorian Railways" on each sheet, sheets perforated and rolls slotted, 8-oz. rolls, 250 sheets per roll	Vict.	100 cases	case	1 3 0	Spicers & Detmold Ltd.
†918A	Oval, in cases of 100 rolls, branded "Victorian Railways" on the end of each roll, sheets perforated and rolls slotted, 8-oz. rolls	..		do.	..	Nil
†919	8-lb. Sulphite, in packets, for "Safix" refills, approx. 950 sheets in roll—Sample No. 3. Packed 1 Gross per bale.	N.S.W.	1,000 doz. pkts.	dozen pkts.	0 6 10	A. J. Wallace

TYPEWRITING AND DUPLICATING MATERIALS, ETC.

(1.7.1930 to 30.9.1931.)

As regards Items Nos. 922 to 924, Ribbons either 5/8" or 9/16" may be ordered. The ribbons shall be properly spooled, wrapped in foil, and each individual ribbon placed in plain white carton. If ordered in 3-dozen lots the ribbons will be packed in an outer container.

*The rates are subject to the following discounts:—

Settlement— 7 days	.. .. .	6½ per cent.
14 days	.. .. .	3¾ per cent.
24 days	.. .. .	1 per cent.
otherwise net.		

The rate for Item 931 includes Exchange at the rate of 25s. per cent. for sight draft. Any difference in Exchange at the time of delivery to be adjusted when goods are invoiced.

The Spools under Items 922 to 925 shall fit the machine for which the ribbon is ordered.

†920	Erasers, Circular	Vict.	2,000	doz.	0 1 11	Barnet Glass Rubber Co. Ltd.
†921	Ink, black, duplicating, 1st quality, No. 767	U.S.A.	500 lb.	lb.	0 13 6	Stott & Hoare Pty. Ltd.
†921A	Ink, black, duplicating, 1st quality ..	Vict.		do.	0 4 3	Ramsay & Hall Pty. Ltd.
	Ribbons, Typewriter, suitable for any Machines, as ordered, including the new model "Ideal" Machine—					
†922	Copying, any colours ordered .. .. .	..	1,000	doz.	*0 14 0	} G. B. Fry & Co.
†923	Non-copying Record, Black .. .. .	..	130	do.	*0 13 0	
†924	Copying, narrow, bi-coloured, any colours ordered	..	6	do.	*0 14 0	
†925	Copying, broad, plain, any colours ordered	U.K.	6	do.	0 14 6	} John Withers & Son Pty. Ltd.
*926	Ribbons, Typewriter, Purple, for "Ditto" machines	..	20	each	0 3 0	
†927	Pads, Ink Stencils—	U.S.A.	400	do.	0 0 10	Stott & Hoare Pty. Ltd.
†928	Foolscap Folio, Indestructible, No. 860 ..	..	600 qrs.	quire	0 15 0	Stott & Hoare Pty. Ltd.
†928A	Foolscap Folio, Indestructible, "Blue" ..	Vict.		do.	0 7 6	Ramsay & Hall Pty. Ltd.
†929	Foolscap Quarto, Indestructible, No. 861 ..	U.S.A.	400 "	do.	0 13 4	Stott & Hoare Pty. Ltd.
†929A	Foolscap Quarto, Indestructible, "Blue" ..	Vict.		do.	0 7 6	Ramsay & Hall Pty. Ltd.
	Sundries for Model F2B Addressograph machine—					
*930	Plates .. .. .	..	18,000	1,000	2 0 0	} Spicers & Detmold Ltd.
*931	Frames	U.K.	5,000	do.	7 0 0	
*932	Ribbons, Purple	Vict.	72	each	0 1 9	Ramsay & Hall Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
TYPEWRITING AND DUPLICATING MATERIALS, ETC.— <i>continued.</i>								
†933	Varnish, Obliterating, for dry stencils, in 1-oz. bottles	Vict.	120 bts.	btle.	0	1	6	Abbott, Goodman & Co.
†934	„ Obliterating, for wet stencils, in 1¼-oz. bottles	U.S.A.	80 „	do.	0	1	3	Stott & Hoare Pty. Ltd.
935 to 938	Nil.							

PRINTERS' INK, ETC.

(1.7.1930 to 30.9.1931.)

The Ink supplied under Item No. 939 shall not contain any Resin Oil Varnish.

The Ink supplied under Items Nos. 939 to 949 shall be high grade quality and dense colours.

The ink supplied under Items Nos. 950 to 960 shall be true as regards quality and colour to sample submitted by corporation.

Ink, Printing, Letterpress—								
†939	Black	Vict.	800 lb.	lb.	0	1	11½	S. Cooke Pty. Ltd.
†940	Blue	„	10 „	do.	0	2	9	R. Collie & Co. Pty. Ltd.
†941	Royal Blue	„	20 „	do.	0	3	10	Alex. Cowan & Sons Ltd.
†942	Bronze Blue, in 1-lb. tins	„	6 „	do.	0	3	3	„
†943	Mid Green	„	5 „	do.	0	3	4	S. Cooke Pty. Ltd.
†944	Emerald Green	N.S.W.	15 „	do.	0	4	6	F. T. Wimble & Co. Ltd.
†945	Red	Vict.	200 „	do.	0	2	5	R. Collie & Co. Pty. Ltd.
†946	Photo Brown—Dark Shade	N.S.W.	25 „	do.	0	4	0	F. T. Wimble & Co. Ltd.
†947	Violet	Vict.	5 „	do.	0	4	11	Alex. Cowan & Sons Ltd.
†948	Violet, Copying	„	2 „	do.	0	10	0	S. Cooke Pty. Ltd.
†949	Quick drying, 1st quality Half-tone Black	N.S.W.	1,500 „	do.	0	3	3	F. T. Wimble & Co. Ltd.
Ink, Flat, Smooth, Ticket Printing, Letterpress—								
*950	Blue	Vict.	6 „	do.	0	3	0	R. Collie & Co. Pty. Ltd.
*951	Blue, Pale	„	60 „	do.	0	2	10	
*952	Brown	„	20 „	do.	0	2	11	S. Cooke Pty. Ltd.
*953	Buff	„	6 „	do.	0	2	11	
*954	Cerise	„	500 „	do.	0	2	9	R. Collie & Co. Pty. Ltd.
*955	Green	„	400 „	do.	0	2	9	
*956	Maroon	„	10 „	do.	0	3	0	S. Cooke Pty. Ltd.
*957	Orange	„	450 „	do.	0	2	9	R. Collie & Co. Pty. Ltd.
*958	Red	„	80 „	do.	0	3	3	
*959	Violet	„	80 „	do.	0	2	10	
*960	Yellow	„	10 „	do.	0	3	0	S. Cooke Pty. Ltd.
Ink, Printing, for posters—								
†961	Black	N.S.W.	15 „	do.	0	0	9	F. T. Wimble & Co. Ltd.
†962	Blue, permanent	Vict.	12 „	do.	0	1	9	Alex. Cowan & Sons Ltd.
†963	Red	N.S.W.	60 „	do.	0	1	10	F. T. Wimble & Co. Ltd.
†964	Glue, Rubberised or Flexible	Vict.	200 „	do.	0	0	10	R. Collie & Co. Pty. Ltd.
†965	Dryers, Cobalt Elastic or other approved quality	„	24 „	do.	0	5	0	S. Cooke Pty. Ltd.
†966	Dryers, Paste	N.S.W.	5 „	do.	0	2	4	F. T. Wimble & Co. Ltd.
†967	Solution, Lye, in 1-gallon jars	Vict.	10 gals.	gallon	0	3	0	S. Cooke Pty. Ltd.
†968	„ Roller Wash, in 4-gallon tins	„	200 „	do.	0	2	9	R. Collie & Co. Pty. Ltd.
†969	Staples, for Bostitch or Star Machine, as ordered	„	150,000	1,000	..	..	..	Nil
†970	Varnish, Letterpress, Lowering	N.S.W.	30 gals.	gallon	0	7	6	F. T. Wimble & Co. Ltd.
†971	Wire, Stapling, 4 lb. to coil, 22-gauge	U.K. & Vict.	400 lb.	lb.	0	0	7½	Henry Drake & Co.
†972	„ „ „ 19-gauge	„	100 „	do.	0	0	7	
†973	„ „ „ 21-gauge	„	28 „	do.	0	0	7	
*974	Manilla—Oiled, Cylinder, 45" wide, in rolls of approximately 100 lb.	„	400 „	do.	..	..	..	Nil
975 to 978	Nil.							

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

CONDUIT PIPE AND FITTINGS.
(1.7.1930 to 30.9.1931.)

* As regards Items Nos. 983 to 988 the rates do not include exchange. The Corporation will pay the Contractor the current rate of T.T. exchange ruling on the date of delivery of the stores on 80 per cent. of the contract rate, which is regarded as the c.i.f. value.

All Conduit Pipes and Fittings shall comply with B.E.S.A. Specification No. 31/1923.

Sufficient time to be allowed British General Elec. Co. Ltd. and Lawrence & Hanson Elec. Co. Ltd. to import stocks to meet initial orders.

Pipe, Conduit, Plain, enamelled—						
979	3/8"	Vict.	40,000 feet	100 ft.	0 5 5	Edison Swan Elec. Co. Ltd.
980	1/2"	"	3,000 "	do.	0 8 7	Noyes Bros. (Melb.) Pty. Ltd.
981	1"	"	500 "	do.	0 13 3	Edison Swan Elec. Co. Ltd.
982	1 1/2"	"	100 "	do.	1 4 10	Noyes Bros. (Melb.) Pty. Ltd.
Pipe, Conduit, Screwed, enamelled—						
983	3/8"	U.K.	12,000 "	do.	*0 9 8	Noyes Bros. (Melb.) Pty. Ltd.
984	1/2"	"	5,000 "	do.	*0 12 10 1/2	"
985	1"	"	6,000 "	do.	*1 0 3	"
986	1 1/2"	"	3,000 "	do.	*1 10 11	"
987	1 1/2"	"	1,000 "	do.	*2 7 9	British General Elec. Co. Ltd.
988	2"	"	1,000 "	do.	*3 16 10	Noyes Bros. (Melb.) Pty. Ltd.
Fittings, Conduit, Plain—						
989	Elbows, 1/2"	"	Nil	doz.	..	Nil
990	" " " " " Ring Grip "	Vict.	20 gross	do.	0 1 9 7/8	"
991	" " " " " " "	"	2 "	do.	0 2 4 1/2	British General Elec. Co. Ltd.
992	" " " " " " "	"	1 "	do.	0 5 1 1/2	"
993	" " " " " " "	"	1 "	do.	..	Nil
994	Tees, " " " " " " "	"	Nil	do.	..	Nil
995	" " " " " Ring Grip "	Vict.	9 "	do.	0 2 3 1/2	British General Elec. Co. Ltd.
996	" " " " " " "	"	1 "	do.	0 2 11 1/2	"
997	Sleeves, " " " " " " "	"	Nil	do.	..	Nil
998	" " " " " Ring Grip "	Vict.	2 "	do.	0 1 5 3/4	British General Elec. Co. Ltd.
999	" " " " " " "	"	1 "	do.	0 1 10 1/2	"
Fittings, Conduit, Screwed—						
1000	Bends, 3/8" " T & S "	N.S.W.	1 "	do.	0 3 5 1/2	Noyes Bros. (Melb.) Pty. Ltd.
1001	" " 1/2" " " " "	"	4 "	do.	0 4 5	Edison Swan Elec. Co. Ltd.
1002	" " 1" " T & S "	"	1 "	do.	0 7 2	Noyes Bros. (Melb.) Pty. Ltd.
1003	" " 1 1/2" " T & S "	"	1 "	do.	0 10 10	"
1004	" " 1 1/2" " " " "	"	1 "	do.	1 0 0	Edison Swan Elec. Co. Ltd.
1005	" " 2" " T & S "	"	1 "	do.	2 5 7	Noyes Bros. (Melb.) Pty. Ltd.
1005a	Bushes, reducing, 3/4" to 5/8"	U.K.	2 "	do.	0 1 8	Lawrence & Hanson Elec. Co. Ltd.
1006	Elbows, 5/8"	N.S.W.	5 "	do.	0 1 9	Australian General Elec. Co. Ltd.
1007	Elbows, 3/4"	"	12 "	do.	0 2 2	Australian General Elec. Co. Ltd.
1008	" " 1"	"	1 "	do.	0 3 3	"
1009	" " 1 1/2"	"	1 "	do.	0 7 3	Edison Swan Elec. Co. Ltd.
1010	" " 1 1/2" " T. and S. "	"	1 "	do.	0 11 5	"
1011	" " 2" " T. and S. "	"	1 "	do.	1 2 3	Noyes Bros. (Melb.) Pty. Ltd.
1012	" " 1" Inspection	U.K.	1 "	do.	0 6 1	"
1013	" " 1 1/2" " " " "	"	3 "	do.	0 10 10	"
1014	" " 1 1/2" " " " "	"	2 "	do.	0 15 9	Lawrence & Hanson Elec. Co. Ltd.
1015	" " 2" " " " "	"	1 "	do.	1 6 6	"
1016	Sleeves, 3/8"	N.S.W.	5 "	do.	0 1 2	"
1017	" " 1/2"	"	20 "	do.	0 1 7	Australian General Elec. Co. Ltd.
1018	" " 1"	"	3 "	do.	0 2 2	"
1019	" " 1 1/2"	"	1 "	do.	0 3 7	Edison Swan Elec. Co. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.		Name of Contractor.
					£	s. d.	
CONDUIT PIPE AND FITTINGS—continued.							
1020	Fittings, Conduit, Screwed— <i>continued.</i> Sleeves, 1½", "T. and S."	N.S.W.	1 gross	doz.	0	5 5	Noyes Bros. (Melb.) Pty. Ltd.
† 1021	" 2"	"	1 "	do.	0	9 6	Edison Swan Elec. Co. Ltd.
1022	Tees, ½", "T. and S."	"	1 "	do.	0	2 4½	Noyes Bros. (Melb.) Pty. Ltd.
1023	" ¾"	"	3 "	do.	0	3 0	} Australian General Elec. Co. Ltd.
1024	" 1"	"	1 "	do.	0	4 10	
† 1025	" 1¼"	"	1 "	do.	0	12 0	Edison Swan Elec. Co. Ltd.
1026	" 1½"	"	1 "	do.	0	15 0	Australian General Elec. Co. Ltd.
1027	" 2"	"	1 "	do.	1	5 0	Edison Swan Elec. Co. Ltd.
† 1028	Boxes, Junction, ¾", 3 way, "Nilcrom"	Vict.	150	each	0	0 6½	} Noyes Bros. (Melb.) Pty. Ltd.
† 1029	Crampets, ¾", "Clipsall"	S. Aust.	2 gross	dozen	0	0 2¾	
1030	" ¾"	Vict.	2 "	do.	0	0 3½	Australian General Elec. Co. Ltd.
1031	Saddles, ½"	N.S.W.	1 gross	gross	0	0 10½	Edison Swan Elec. Co. Ltd.
1032	" ¾"	Vict.	100 "	do.	0	0 9½	Lawrence & Hanson Elec. Co. Ltd.
1033	" 1"	N.S.W.	40 "	do.	0	1 3	Edison Swan Elec. Co. Ltd.
† 1034	" 1"	Vict.	4 "	dozen	0	0 2	British General Elec. Co. Ltd.
1035	" 1¼"	N.S.W.	4 "	gross	0	4 3	Edison Swan Elec. Co. Ltd.
1036	" 1½"	Vict.	3 "	dozen	0	0 5½	} Siemens (Aust.) Pty. Ltd.
1037	" 2"	"	1 "	do.	0	0 7	
1038	Lock Nuts, ½"	U.K.	2 "	do.	0	0 6	} Lawrence & Hanson Elec. Co. Ltd.
1039	" ¾"	"	2 "	do.	0	0 7	
† 1040	" 1"	"	1 "	do.	0	1 2	} Lawrence & Hanson Elec. Co. Ltd.
1041	" 1¼"	"	1 "	do.	0	1 9	
1042	" 1½"	"	1 "	do.	0	2 6	} Edison Swan Elec. Co. Ltd.
1043	" 2"	N.S.W.	1 "	do.	0	4 0	
1044 to 1048	Nil						

ELECTRIC CABLES AND WIRES.

(1.7.1930 to 30.9.1931.)

SPECIFICATION FOR STRANDED COPPER CABLE, DROPPER WIRE, AND CONTACT WIRE.—
Items Nos. 1049 to 1060.

A. *Dropper Wire and Stranded Cables.* Specifications of British Engineering Standards Association and Australian Commonwealth Engineering Standards Association apply.—Except where definitely stated to the contrary, and as regards the dimensions of 7/036 (Item No. 1049), the A.C.E.S.A. Specification No. C.41, 1927 shall apply to the Copper Dropper Wire and Stranded Copper Cables in this Contract as detailed in Items Nos. 1049 to 1055, 1057, 1058 and 1060, and the B.E.S.A. Specification No. 125/1924 shall apply to items 1056 and 1059.

B. *Sizes of Cables and Wires.*—The size of the Cables and Wires entering into this contract shall be as detailed in the schedule against Items Nos. 1049 to 1060.

C. *Inspecting, Testing and Weighing at Works.*—All Cables and Wires will be weighed and lengths checked as set out in Clauses K and L, and the Contact Wire shall also be inspected for defects as per clause E (2) and clause F by the Comptroller of Stores or his representative at the works of the Contractor.

The Stranded Copper Cable shall be tested before stranding in accordance with Clause A by the Comptroller of Stores or his representative at the works of the Contractor. The outer layer shall be wound in the direction as shown on Drawing No. F. 1586.

For these purposes the Contractor shall give appropriate notice in writing of the readiness of the Cables or Wires for inspection, measurement, weighing, or test at the works.

D. *Testing after Delivery.*—The Wire under Item No. 1059 shall be tested in accordance with Clause A, and the Contact Wire in accordance with Clauses E, G, H, and I, by the Comptroller of Stores or his representative on delivery of the Wire. The Contractor will be notified at his Melbourne address of the intention to carry out such tests, and at what place they will be carried out, 24 hours previously, but should he or his representative fail to be present the tests may be carried out at his risk in his absence.

ELECTRIC CABLES AND WIRES—continued.

e. *Contact Wire, General.*—(1) The Hard-drawn Copper Contact Wire shall have a resistance of not more than 1570 ohms per metergram at 20° C. (2) The Wire shall be clean and smooth from the die, without roughness, seams, spills, scales, or scabs, and shall be delivered tightly wound on drums. (3) The section of the Wire shall be in accordance with Drawing No. F.1460.

f. *Contact Wire Joints.*—The joints in the Wire shall be carefully made with silver before the Wire is drawn.

g. *Contact Wire Tensile Test.—Minimum Breaking Stress*—20 tons per square inch.

Elongation.—The elongation at breaking load shall not be less than 4 per cent. on a test length of 10 inches.

Elastic Limit.—The elastic limit, as determined by stress and strain diagram, shall not be less than 60 per cent. of the breaking load.

n. *Contact Wire Bending Test.*—The Wire shall be fixed in a vice between clamps bell mouthed to a radius equal to the thickness of the Wire where gripped, in such a way that the side touched by the pantograph and the side opposite are held in the clamps—90 degrees will be considered as a single bend. The first bend will be from a vertical position to the right, the second back to the original position, the third from the vertical to the left, and the fourth back into the original position. The Wire shall be capable of standing as a minimum four bends without showing signs of fracture.

i. *Contact Wire Torsion Test.*—The Wire shall be capable of standing a single twist in a length of 10 inches without showing signs of fracture. One complete turn of 360 degrees from the axis shall be considered a single twist.

j. *Samples for Test.*—A sample from each drum or coil may be taken of Contact, Dropper, or Stranded Wire for testing in accordance with Clauses c and d.

In the event of a sample of any drum or coil not passing these tests, a second or third sample from the same drum or coil shall be tested, and the average of these tests shall determine the acceptance or rejection of the drum or coil.

k. *Weights.*—The method of weighing by the Comptroller of Stores or his representative at the works of the Contractor will be as follows:—The empty drum will be weighed and the result noted. The Cable or Wire will then be wound on the drum for the specified length, the full drum will then be weighed and the result noted. The weight of the Cable or Wire to be supplied under this Contract will then be ascertained by subtracting the weight of the empty drum from the weight of the drum when filled. Each drum when packed and totally enclosed shall be stencilled with the gross tare and net weights in the presence of the Comptroller of Stores or his representative.

All such weights so ascertained by the Comptroller of Stores or his representative will for all purposes be accepted by the parties to this Contract as correct and final and binding.

l. *Measurements.*—The Comptroller of Stores or his representative shall measure the length of Wire or Cable on each drum at the works of the Contractor, and the Contractor shall have such lengths stencilled on the respective drums. These lengths will for all purposes be accepted by the parties to this Contract as final and binding.

m. *How Delivered.*—The Cable and Wire shall be delivered on drums (the numbers of which may be specified in the order). The dimensions of the drums shall not exceed the figures given on Drawing No. 4051—F.678. An iron plate 15 inches x 15 inches x $\frac{1}{4}$ inch thick is required to reinforce each side of the drum, to which it shall be bolted. A 3-in. clearance square hole shall be made in both the drum and the plate to take a 3-in. square spindle. The gross, tare and net weight, also number of feet on the drum, shall be stencilled on the drum in figures which should not be less than 1 $\frac{1}{4}$ inch high.

n. *Delivery.*—The Cable and Wire shall be provisionally delivered, deposited where and as directed at the Corporation's Overhead Construction Storehouse, Laurens-street, North Melbourne, or at the Electric Light Storehouse at Spencer-street, as may be ordered, and delivery shall be deemed to be provisional until such time as the Comptroller of Stores shall certify that the whole of the service complied with this Specification and is in every respect to his satisfaction, and no such provisional acceptance shall prevent the operation of the "Rejection" clause of the annexed Conditions of Contract.

SPECIFICATION FOR COPPER CABLE.—Items Nos. 1062 to 1064.

Method of Stranding.—Concentric lay cables shall be formed as follows:—

All wires in the cable must be stranded in the same direction, i.e., the lay of all strands must be the same throughout each cable.

Electrical Resistance.—Pure electrolytic copper shall be used; resistance shall not exceed 10.565 ohms per mil. foot at 20° C.

Actual capacity of the cable shall not vary from nominal capacity by more than plus or minus 2 per cent.

The length of the lay shall not exceed ten times the diameter of the cable.

Elongation shall not be less than 25 per cent., nor the tensile strength more than 38,500 lb. per sq. in.

SPECIFICATION FOR HARD-DRAWN COPPER WIRE FOR TELEGRAPH AND TELEPHONE PURPOSES.—Items Nos. 1065 and 1066.

The Wire shall be Hard-drawn Copper Wire—weight, 150 and 200 lb. per mile respectively. The Wire shall be in accordance with the Australian Commonwealth Engineering Standards Association Specn. No. C.3, and the Wire will be packed in coils of 75 to 140 lb.

As regards Items Nos. 1049 to 1064, the rates tendered are for an order of not less than 100 lb. of any size at a time. It will often expedite delivery of these items if ordered in standard drums or packages. A schedule giving these standards is shown below. Special cutting always entails delay.

The rates quoted for Items Nos. 1087 to 1096 are for not less than 10 lb. of one size at a time, and the standard packages are also shown hereunder.

As regards Items Nos. 1049 to 1066 and 1087 to 1096, the rates are based on the price of £84 5s. per ton for electrolytic copper wire bars published in the *Argus*, Melbourne, on the 10th March, 1930, and are to be varied up or down by one-tenth of a penny per lb. of copper for each complete 17s. 6d., or part

ELECTRIC CABLES AND WIRES—*continued.*

thereof, by which the price of wire bars published in the *Argus* on the date of receipt of an order is greater than £85 2s. 5d. per ton or less than £84 5s. per ton respectively. If no price of wire bars is published on any day, the price last published earlier shall apply. In the event of a dispute concerning the published price of wire bars, the figures advised by the Australian Mines and Metals Association as last received by them from the London Metal Exchange prior to the day of the receipt of the order shall be mutually accepted.

As regards Items Nos. 1099 and 1100, the rates are based on copper and lead at £84 5s. and £19 per ton respectively, and the prices will vary with the market prices of these metals as follow:—

Item No.	Size.	Variation per 1,000 yards per 20s. alteration in the price of—	
		Copper.	Lead.
1099	26 pair	3s. 3d.	..
1100	15 pair	2s.	..

As regards Items Nos. 1065 and 1066, the rates are based on the price of copper, viz., 184 5s., and the variation will be £1 for any £1 alteration in the market price. Alterations of less than £1 will be dealt with pro rata.

The minimum order that will be accepted at the rate shown is two (2) tons. The wire is packed in coils 75 to 140 lb.

Schedule of Standard Packages.

Item No.	Size.	Standard Packing.		Weight per 1,000 yards.
		Length.	Net Weight.	
		yards.	lb.	
1049	7/.036	5,760	488	34
1050	7/.048	3,240	488	149
1051	7/.064	3,640	976	265
1052	7/.080	2,330	976	414
1053	7/.097	1,585	976	608
1054	7/.104	1,380	976	699
1055	19/.083	2,170	2,656	1,211
1056	7/.152	645	976	1,495
1057	37/.093	865	2,580	2,963
1058	37/.118	535	2,580	4,772
1059	.193	as specified	..	340
1060	.25		..	2,800
1061	49/.018	2,300	343	149
1062	91/.044	1,925	3,170	1,650
1063	91/.059	2,104	6,230	2,960
1064	37/.064	1,820	2,580	1,403
1065	150 lb.	coils of 75 lb. to 140 lb.	..	85
1066	200 lb.			103
1087	8 s.w.g.			112
1088	10 s.w.g.			56
to	to	..	to	..
1096	18 s.w.g.	..	28	..

Time for delivery—

As regards Items 1049 to 1066—four to five weeks is to be allowed for delivery.

As regards Items 1099 and 1100—twelve weeks is to be allowed for delivery.

The British General Elec. Co. Ltd. and Edison Swan Electric Co. Ltd. to be allowed sufficient time to meet initial orders.

Names of Manufacturers—

Items Nos. 1049 to 1066 and 1087 to 1096—Metal Manufactures Ltd., New South Wales.

Items Nos. 1070, 1071, and 1072—Driver Harris Co.

Items Nos. 1074, 1077, and 1078—Pirelli-General Cable Works Co. Ltd., England.

Items Nos. 1097 and 1098—London Elec. Wire and F. Smith and Co., England.

Item No. 1101—Siemens Bros. and Co. Ltd.

As regards Items 1049 to 1066, the rates tendered do not include wharfage dues of the Melbourne Harbor Trust, and the Contractor should be requested on each order to arrange for the material to be consigned, and Bill of Lading made out, in favour of the Victorian Railways Commissioners, in order that the Shipping Clerk may arrange for exemption of wharfage, the delivery order to be returned to the Company to enable it to complete delivery.

As regards Items 1049 to 1060 and 1062 to 1066, arrangements are to be made at the time of placing of orders for inspection to be conducted by the Permanent Testing Officer of the Postmaster-General's Department resident at Port Kembla, and to forward certificates of inspection, quoting the order number, to the Comptroller of Stores. A copy of each order and such other information as is called for should be forwarded to the State Engineer of the Postal Department, Sydney, New South Wales, with a request that this be done at the Department's expense simultaneously with the placing of the order. A copy of this schedule has already been forwarded.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
ELECTRIC CABLES AND WIRES—continued.							
1049	Cable, Hard-drawn, Stranded Copper—						
1050	7/·036, Area 0·007 sq. in.	N.S.W.	24,000 feet	lb.	*0 1 4	British Insulated Cables Ltd.	
1051	7/·043, Area 0·0125 sq. in.	"	17,000 "	do.	*0 1 3·6		
1052	7/·064, Area 0·0225 sq. in.	"	113,000 "	do.	*0 1 3·3		
1053	7/·080, Area 0·035 sq. in.	"	4,000 "	do.	*0 1 3·3		
1054	7/·097, Area 0·05 sq. in.	"	80,000 "	do.	*0 1 3·3		
1055	7/·104, Area 0·06 sq. in.	"	1,000 "	do.	*0 1 3·3		
1056	19/·083, Area 0·10 sq. in.	"	10,000 "	do.	*0 1 3·3		
1057	7/·152, Area 0·125 sq. in.	"	10,000 "	do.	*0 1 3·3		
1058	37/·093, Area 0·25	"	15,000 "	do.	*0 1 3·3		
1059	37/·118, Area 0·4 sq. in.	"	7,500 "	do.	*0 1 3·3		
1060	Wire, 0·193 dia., Hard Drawn Copper	"	40,000 "	do.	*0 1 3·3	British Insulated Cables Ltd.	
1061	Wire, 0·25 sq. in. Contact, Hard Drawn Copper (Drawing F1460)	"	50,000 "	do.	*0 1 3·3		
*1061	Cable, copper, 49/·018 annealed, flexible, area 0·0125 sq. in.	"	3,000 yards	do.	*0 2 3·3		
1062	Cable, copper, 91/·044 annealed, flexible, area 0·14 sq. in.	"	5 miles	do.	*0 1 7·3		
1063	Cable, copper, 91/·059 annealed, flexible, area 0·25 sq. in.	"	2 "	do.	*0 1 5·3		
1064	Cable, copper, 37/·064 annealed, flexible, area 0·12 sq. in.	"	1 "	do.	*0 1 4·3		
1065	Wire, copper, to Specification, 150 lb. per mile	"	10 tons	ton	126 15 0*		
1066	Wire, copper, to Specification, 200 lb. per mile	"	40 "	do.	126 5 0*		
1067	Wire, German Silver, 14 s.w.g.	"	3 lb.	lb.	..		Nil
†1068	" " " 16 s.w.g.	"	4 "	do.	..		
1069	" " " 18 s.w.g.	"	4 "	do.	..		
†1070	Wire, nickel chromium, 27 B. and S. gauge	U.S.A.	4 "	do.	0 12 0	Remingtons Pty. Ltd.	
†1071	Wire, nickel chromium, 20 B. and S. gauge	U.K.	4 "	do.	0 8 5		
1072	Wire, nickel chromium, 18 B. and S. gauge	"	4 "	do.	0 7 7	British General Elec. Co. Ltd.	
Wire, copper, tinned (fuse)—							
1073	16 s.w.g. (in hanks)	"	50 "	do.	0 1 5	British Insulated Cables Ltd.	
1074	18 s.w.g. (1-lb. reels)	"		do.	0 1 8	British General Elec. Co. Ltd.	
1075	20 s.w.g.	"		do.	0 1 8	Johnson and Phillips Ltd.	
1076	22 s.w.g.	"		do.	0 1 8		
1077	26 s.w.g. (½-lb. reels)	"		do.	0 1 11	British General Elec. Co. Ltd.	
1078	28 s.w.g. (½-lb. reels)	"		do.	0 1 11½		
1079	29 s.w.g. (on reels)	"		do.	0 2 1	W. T. Henley's Tele. Works Co. Ltd.	
1080	30 s.w.g.	"		do.	0 2 0½	Johnson and Phillips Ltd.	
1081	32 s.w.g.	"		do.	0 2 2		
1082	33 s.w.g.	"		do.	0 2 4½	W. T. Henley's Tele. Works Co. Ltd.	
1083	36 s.w.g.	"	do.	0 2 11			
1084	38 s.w.g.	"	do.	0 3 0	Johnson and Phillips Ltd.		
1085	40 s.w.g.	"	do.	0 3 3			
†1086	Wire, Copper, enamelled, 24 s.w.g.	"	56 "	do.	0 1 8		
Wire, Copper, D.C.C.—							
1087	8 s.w.g.	N.S.W.	100 "	do.	*0 1 5·8	British Insulated Cables Ltd.	
1088	10 s.w.g.	"	25 "	do.	*0 1 6·3		
1089	11 s.w.g.	"	100 "	do.	*0 1 6·3		
1090	12 s.w.g.	"	25 "	do.	*0 1 6·3		
1091	13 s.w.g.	"	100 "	do.	*0 1 6·8		
1092	14 s.w.g.	"	100 "	do.	*0 1 6·8		
1093	15 s.w.g.	"	125 "	do.	*0 1 6·8		
1094	16 s.w.g.	"	100 "	do.	*0 1 8·8		
1095	17 s.w.g.	"	40 "	do.	*0 1 10·3		
1096	18 s.w.g.	"	120 "	do.	*0 2 0·8		
1097	27 s.w.g., ·0164, white	U.K.	4 "	do.	0 3 3	Warburton Franki (Melb.) Ltd.	
1098	28 s.w.g., ·0148, white	"	3 "	do.	0 3 5		

* These rates are subject to a adjustment based on the price of E.C. Wire Bars. (See Notes.)

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ELECTRIC CABLES AND WIRES—continued.						
1099	Cable, copper, 26 pairs, dia. of each strand .0235 min., .024 max., enamelled, two lap of silk and one lap of coloured cotton, the whole braided suitable for indoors	U.K.	1,000 yards	1,000 yds.	103 0 0*	British Insulated Cables Ltd.
1100	Cable, copper, 15 pairs, dia. of each strand .0235 min., .024 max., enamelled, two lap of silk and one lap of coloured cotton, the whole braided suitable for indoors	"	1,000 "	do.	64 0 0*	
1101	Cable, copper, 1 pair, dia. of each strand .0235 min., .036 max., enamelled, cotton and lead covered (20 lb.)	"	1,000 "	do.	6 0 0	Siemens (Aust.) Pty. Ltd.
1102	Wire, copper, .036 dia., rubber insulated, taped and braided and twisted in pairs	"	8,000 "	100 yards	"	Nil
†1103	Wire, copper, .036 dia. Telephone Bell, enamelled, double cotton covered and paraffined, any colours ordered	U.K.	1,700 "	1,000 yards	1 6 8	British Insulated Cables Ltd.
Wires, copper, flexible—						
†1104	23/.0076 twin, office, maroon	Belgium	5,000 "	100 yds	0 17 6	Remingtons Pty. Ltd.
†1105	40/.0076 twin, office, maroon	"	1,000 "	do.	1 4 6	
†1106	40/.0076 twin, asbestos covered, red and black	U.K.	500 "	do.	1 12 0	British General Elec. Co. Ltd.
†1107	40/.0076 three core, asbestos covered, red and black	"	100 "	do.	2 7 6	
†1108	23/.0076 twin, workshop	Belgium	200 "	do.	1 2 6	Remingtons Pty. Ltd.
†1109	40/.0076 twin, workshop	"	1,500 "	do.	1 8 6	
†1110	11/.012, 3 core, cab tyre	U.K.	1,000 "	do.	2 19 10	Edison Swan Elec. Co. Ltd.
†1111	16/.012, 3 core, cab tyre	"	800 "	do.	3 12 1	
†1112	11/.012, twin, cab tyre	"	2,000 "	do.	1 16 8	Remingtons Pty. Ltd.
†1113	16/.012, twin, cab tyre	Belgium	3,000 "	do.	2 12 0	
†1114	Cable, Copper, 1/.044, twin metal sheathed, V.I.R. 600 megohm grade, pure lead covered	U.K.	1,000 "	do.	1 11 1	Edison Swan Elec. Co. Ltd.
†1115	Cable, Copper, 3/.036, twin metal sheathed, V.I.R. 600 megohm grade, pure lead covered	"	760 "	do.	2 19 5	
1116 to 1130	Nil					

* These rates are subject to adjustment based on the price of E.C. wire bars. (See Notes.)

ELECTRICAL FITTINGS.

(1.7.1930 to 30.9.1931.)

SPECIFICATION FOR SHEET MICA.—Item No. 1256.

General Particulars.—The mica is required for the manufacture and repair of electrical heating appliances in particular, and other electrical apparatus in general.

Quality.—It shall be of the highest grade phlogopite mica, known as clear amber.

Properties of Tests.—(a) Dielectric Strength.—The dielectric strength determined on sheets approximately 10 mils in thickness shall not be less than 2,000 volts per mil.

(b) Heat Resistance.—Samples of the mica shall show no signs of deterioration when heated in a furnace at 900 degrees C. for 2 hours.

(c) Loss of Weight.—The loss of weight determined from weighings before and after the heat resistance test shall not exceed 0.5 per cent.

Size and Thickness.—The size of the sheets required is (6) six inches by four (4) inches, and the thickness shall not be less than (20) twenty mils.

The Shunts and Leads, Item No. 1275, shall be suitable for use with Weston D.C. Ammeters, Model 269-280, calibrated over a range of 20-0-80 amps. The Shunts shall be mounted on an insulated base, and shall be adjusted for a drop of 75 milli-volts between terminals with 80 amps flowing. The length of the leads shall be 20 feet each, and resistance of a pair in series shall be .1803 ohms at 12.8 degrees centigrade.

As regards Item 1132, the article to be supplied is an Australian "Diamond" single-unit cell, which will be supplied as separate cells; the adjacent cells may be either held in contact by the pressure of the torch pressure spring or soldered together by a wire connexion.

As regards items to be imported by the Mica and Insulating Supplies Co., British General Electric Co. Ltd., and Lawrence and Hanson Electric Co. Ltd., sufficient time must be allowed to meet initial orders.

As regards Item 1259, statutory declaration to be furnished for Customs purposes.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
ELECTRICAL FITTINGS—continued.								
†1131	Adaptors, Bayonet, A.836	U.K.	300	each	0	0	3 ³ / ₄	Edison Swan Electric Co. Ltd.
†1132	Batteries, dry, cylindrical, 3-cell, "Diamond"	Vict.	4,000	do.	0	1	2 ¹ / ₂	Remingtons Pty. Ltd.
†1133	" " " " 2-cell, "	"	300	do.	0	0	10	Widdis Diamond Dry Cells Pty. Ltd.
†1134	Blocks, base, wood, 9" x 3"	"	100	doz.	0	3	0 ¹ / ₂	Remingtons Pty. Ltd.
†1135	" " " " 6" x 3"	"	400	do.	0	2	7	Siemens (Aust.) Pty. Ltd.
†1136	" " " " 3" dia.	"	200	do.	0	0	11	
†1137	Connector, D. & S., 212 E., Cat No. 21,335	U.K.	200	each				Nil
*1138	" " " " 21,340	"	30	do.				
	Ebonite, Sheet—							
1139	1 ¹ / ₁₆ " thick	Vict.	400 sq. ft.	sq. ft.	0	1	5 ¹ / ₂	Dunlop Perdriau Rubber Co. Ltd.
1140	1 ¹ / ₈ " "	"		do.	0	1	11 ³ / ₄	
1141	1 ¹ / ₄ " "	"		do.	0	2	6	
1142	1 ¹ / ₂ " "	"		do.	0	3	0 ¹ / ₂	
1143	1 ³ / ₈ " "	"		do.	0	3	6 ¹ / ₂	
1144	1 ¹ / ₂ " "	"		do.	0	4	0 ¹ / ₂	
1145	1 ¹ / ₂ " "	"		do.	0	4	7 ¹ / ₂	
†1146	1 ¹ / ₂ " "	"		do.	0	5	2 ¹ / ₂	
1147	1 ¹ / ₂ " "	"		do.	0	6	7 ¹ / ₂	
1148	1 ¹ / ₂ " "	"		do.	0	7	1	
1149	1 ¹ / ₂ " "	"		do.	0	7	8 ¹ / ₂	
1150	1 ¹ / ₂ " "	"		do.	0	8	2 ³ / ₄	
1151	1 ¹ / ₂ " "	"		do.	0	8	8 ³ / ₄	
1152	1 ¹ / ₂ " "	"		do.	0	9	3	
1153	1 ¹ / ₂ " "	"		do.	0	9	10	
1154	1 ¹ / ₂ " "	"	do.	0	10	4		
	Ebonite, Rod							
	Approx. weight per 1,000 ft.							
1155	1 ¹ / ₂ " round, Unfrazed	U.K.	10 l. ft.	lb.	0	4	3	British General Electric Co. Ltd.
1156	1 ¹ / ₂ " " " "	"	30 "	do.	0	3	6	
1157	1 ¹ / ₂ " " " "	"	12 "	do.	0	3	2	
1158	1 ¹ / ₂ " " " "	"	8 "	do.	0	2	11	
1159	1 ¹ / ₂ " " " "	"	220 "	do.	0	2	9	
1160	1 ¹ / ₂ " " " "	"	393 "	do.	0	2	9	
1161	1 ¹ / ₂ " " " "	Vict.	5 "	lin. ft.	0	1	5 ³ / ₄	Dunlop Perdriau Rubber Co. Ltd.
1162	1 ¹ / ₂ " " " "	"	30 "	do.	0	1	10 ¹ / ₄	
1163	2" " " "	"	6 "	do.	0	2	6 ³ / ₄	
1164	Electrolyte, Dry, for Edison Battery	U.S.A.	10 cwt.	cwt.	14	0	0	Dane, Taylor & Co. Pty. Ltd.
1165	Electrolyte, Dry, for Ni ± fe Battery. In 56-lb. tins. If in smaller quantities cost of repacking to be charged	Sweden	2 "	lb.	0	2	6	W. J. Spencer & Co. Ltd.
	Fibre Sheet, Red—							
1166	3 ⁴ / ₈ " thick, "Vul-cot"	U.S.A.	50 lb.	lb.	0	1	8	W. G. Sleightholm A. L. Campbell & Co. Pty. Ltd.
1167	7 ¹ / ₈ " " " "	"	50 "	do.	0	1	11 ¹ / ₄	
†1168	1" " " " "Vul-cot"	"	80 "	do.	0	1	11	W. G. Sleightholm A. L. Campbell & Co. Pty. Ltd.
1169	1 ¹ / ₈ " " " " "	"	50 "	do.	0	2	1 ¹ / ₄	
1170	1 ¹ / ₄ " " " " "Diamond"	"	100 "	do.	0	2	11 ¹ / ₂	British General Electric Co. Ltd.
	Fibre Sheet, Grey—							
†1171	1 ¹ / ₈ " to 3 ⁴ / ₈ " thick	"	1,000 "	do.				Nil
1172	1 ¹ / ₂ " thick	U.K.	10 "	do.	0	1	4 ¹ / ₂	Mica & Insulating Supplies Co.
	Fibre Rod, Red—							
1173	1 ¹ / ₂ " round	"	12 "	do.				Nil
1174	1 ¹ / ₂ " " "	"	2 "	do.				
1175	1 ¹ / ₂ " " "	"	5 "	do.				
†1176	1 ¹ / ₂ " " "	"	10 "	do.				
1177	1" " "	"	30 "	do.				
1178	1 ¹ / ₂ " " "	"	20 "	do.				
1179	1 ¹ / ₂ " " " "Vul-cot"	U.S.A.	100 "	do.	0	9	6	W. G. Sleightholm
1180	2" " " "	"	50 "	do.				Nil
	Fingers, Control (drop forged copper)—							
*1181	3 ⁴ / ₈ " double hole	Vict.	2 gross	gross	11	14	0	Tombs & Howcroft Pty. Ltd.
*1182	1" double hole	"	1 "	do.	12	12	0	
*1183	1" single hole	"	2 "	do.	13	4	0	
†1184	Fittings, Lighting, "Stones Type," No. 2361	"	60	each				Nil

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ELECTRICAL FITTINGS—continued.						
	Fuses, Ironclad—					
†1185	15 amp., 250 volt, " B.W."	N.S.W.	200	each	0 2 11½	Noyes Bros. (Melb.) Pty. Ltd. British General Electric Co. Ltd.
†1186	15 amp., 500 volt, " B.W."	"	144	do.	0 2 11½	
†1187	30 amp., 500 volt	U.K.	70	do.	0 3 9	
†1188	60 amp., 500 volt	"	36	do.	0 7 11	
	Fuses, Factory Type, with bases, back connected—					
†1189	5 amp., suitable for 250 volt, " T. & H." pattern	Vict.	100	do.	0 0 10¾	Noyes Bros. (Melb.) Pty. Ltd.
†1190	5/15 amp., replacement suitable for 500 volt, No. 739865	U.K.	100	do.	0 1 3½	Edison Swan Electric Co. Ltd.
†1191	15 amp., suitable for 500 volt (20 amp. replacement)	U.K.	100	each	0 2 3	Edison Swan Electric Co. Ltd.
†1192	20 amp., suitable for 500 volt	"	12	do.	..	Orders to be placed under Item 1191
†1193	30 amp., suitable for 500 volt (30 amp. replacement)	U.K.	140	do.	0 3 4½	Edison Swan Electric Co. Ltd.
†1194	50 amp., suitable for 500 volt	"	100	do.	..	Nil
†1195	100 amp., suitable for 500 volt	"	12	do.	..	Nil
	Fuses, Cartridge—					
†1196	15 amp., 250 volt, Zed.	U.K.	200	do.	0 0 8½	Siemens (Aust.) Pty. Ltd.
†1197	20 amp., 250 volt., Zed.	"	20	do.	0 0 10¾	
	Holders—					
*1198	Goliath, for series lighting, G.E. 25711 ..	U.S.A.	10	do.	0 4 3	Australian General Electric Co. Ltd.
*1199	E.S. batten, G.E. 50717	"	120	do.	0 1 1	
*1200	E.S. weatherproof, G.E. 9366	"	500	do.	0 0 8½	
†1201	Bayonet, portable hand lamp fitted with Reflector and cord grip	Vict.	130	do.	0 6 1	
†1202	Bayonet, batten, with shade carrier ring ..	U.K.	250	do.	0 0 5½	Noyes Bros. (Melb.) Pty. Ltd.
†1203	Bayonet, batten, with shade carrier ring, Bakelite, S. 2168, reinforced	"	50	do.	0 0 9½	British General Electric Co. Ltd.
*1204	Bayonet, batten, car lighting	"	24	do.	..	Nil
†1205	Bayonet, keyless, with shade ring carrier, ½"	U.K.	200	do.	0 0 5½	Lawrence & Hanson Electrical Co. Ltd.
†1206	Bayonet, keyless, with shade ring carrier, ¾"	"	600	do.	0 0 5½	
†1207	Bayonet, keyless, with shade ring carrier, cord grip	"	1,500	do.	0 0 5½	
†1208	Bayonet, keyless, with shade ring carrier, cord grip, Bakelite, S. 2103, reinforced	"	100	do.	0 0 8	British General Electric Co. Ltd.
	Insulation Cloth, Empire—					
†1209	7 mils. thick	"	100 yards	yard	0 1 3	A. L. Campbell & Co. Pty. Ltd.
†1210	10 mils. thick	"	100 "	do.	0 1 3	
	Insulation Compound—					
†1211	Chattertons	"	30 lb.	lb.	0 2 3	Edison Swan Electric Co. Ltd.
†1212	Box	"	56 "	do.	0 0 3	W. T. Henley's Telegraph Works Co. Ltd.
	Insulation, Leatheroid, in rolls 50" to 54" wide—					
†1213	5 mils	"	30 "	do.	..	Nil
†1214	10 mils	U.K.	100 "	do.	0 1 5	Mica & Insulating Supplies Co.
†1215	15 mils	"	20 "	do.	0 1 5	
†1216	20 mils	"	20 "	do.	0 1 5	
†1217	24 mils	"	2 "	do.	0 1 5	
†1218	30 mils	"	14 "	do.	0 1 5	
†1219	35 mils	"	2 "	do.	0 1 5	
†1220	40 mils	"	2 "	do.	..	Nil
†1221	Insulation, presspahn, in sheets, 10 mils, 36" x 24", 32" x 24", or 40" x 24"	U.K.	60 sheets	do.	0 1 1	W. G. Sleightholm
	Insulation Sheet, Ebony grade—					
†1222	¼" thick (6 mm.), " Excellite "	Switz.	200 lb.	sq. ft.	0 3 0	Lawrence & Hanson Electrical Co. Ltd.
†1223	⅜" thick (10 mm.), " Excellite "	"	100 "	do.	0 3 6	
†1224	½" thick (12 mm.), " Excellite "	"	100 "	do.	0 4 0	
†1225	¾" thick (20 mm.), " Excellite "	"	100 "	do.	0 6 3	
†1226	1" thick, " Cambestos "	U.S.A.	100 "	do.	0 8 6	A. L. Campbell & Co Pty. Ltd.
	Insulation Tape, adhesive, black—					
†1227	½" to 2-oz. rolls	"	400 "	lb.	..	Nil
†1228	½" in 8-oz. net rolls for Jolimont Workshops	U.K.	1,500 "	"	0 1 4½	Noyes Bros. (Melb.) Pty. Ltd.
†1228A	¾" in 8-oz. rolls for Elect. Branch	Vict.		"	"	0 1 9	Dunlop-Perdriau Rubber Co. Ltd.

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ELECTRICAL FITTINGS—continued.						
†1229	Insulation Tape, Empire, bias cut— ½" wide, 5 mils	U.K.	30 gross yds.	gross yds.	0 2 9	A. L. Campbell & Co. Pty. Ltd.
†1230	¾" wide, 7 mils	"	60 "	do.	0 4 3	
1231	1" wide, 7 mils	"	8 "	do.	..		Nil
1232	1½" wide, 15 mils	UK	4 "	do.	0 12 0	A. L. Campbell & Co. Pty. Ltd.
†1233	Insulation Tape, Rubber, ¾"	"	800 lb.	lb.	..	Nil
Insulators, Porcelain—						
†1234	Button, 1¼" x 1½" x ⅜" hole	Japan	7,000	doz.	0 0 7½	British General Electric Co. Ltd.
*1235	Clamp, 1¼"	"	50	do.	..	} Nil
*1236	Clamp, 1½"	"	50	do.	..	
*1237	Clamp, 2"	"	50	do.	..	
†1238	Cleat, 2½" x 1" (two wires), pairs	Japan	700	do.	0 0 7	Australian General Elec- Co. Ltd.
†1239	Knob, 2¼" x 1⅞" x ⅞" hole	"	400	do.	0 1 7	British General Electric Co. Ltd.
†1240	Pin Type, 6,600 volt, grooved top, brown	Vict.	100	each	0 2 5	Australian Porcelain Insulator Co. Pty. Ltd.
†1241	Pin Type, conference No. 600/0·3	Japan	50	doz.	0 13 6	} Lawrence & Hanson Electrical Co. Ltd.
†1242	Pin Type, conference No. 600/0·2	"	300	do.	0 8 9	
†1243	Pin Type, conference No. 600/0·1	"	500	do.	0 4 8	
†1244	Pin Type, conference No. 600/0·0	"	25	do.	0 4 1	
†1245	Shackle, 6,600 volt, brown	Vict.	36	do.	2 14 6	} British General Electric Co. Ltd.
†1246	Shackle, 3¼" x 4" x ⅞" hole	Japan	700	do.	0 5 11	
†1247	Shackle, 1½" x 2½" x ¾" hole	"	700	do.	0 2 3	
*1248	Strips for battery boxes	Vict.	750	do.	0 6 6	Australian Porcelain Insulator Co. Pty. Ltd.
*1249	Tube, inlet, 6" x ¾", inside diameter, bent	Japan	25	do.	0 1 11	British General Electric Co. Ltd.
†1250	Tube, inlet, 5" x ¾", inside diameter, bent	"	30	do.	0 1 9	} Lawrence & Hanson Electrical Co. Ltd.
†1251	Tube, inlet, 3¼" x ⅝", inside diameter, bent,	"	25	do.	0 1 0	
†1252	Tube, inlet, 2½" x ½", inside diameter, straight	"	25	do.	0 0 6	
†1253	Micanite Sheet, Moulding, approx. 24" x 40", amberoid, 20 mils	"	15 lb.	lb.	..	} Nil
†1254	Micanite Sheet, Flexible, 40" x 40" x 15 mils..	"	15 "	do.	..	
†1255	Micanite Tube, ⅜" dia. inside x ¾" dia. outside	"	100 feet	foot	..	
Mica, Sheet—						
†1256	6" x 4", Phlogopite, clear amber, to Specifi- cation	Partly Vict.	20 lb.	lb.	1 1 0	Mica Products Pty. Ltd.
†1257	Clear, 6" x 4"	India	20 "	do.	0 15 9	} Mica & Insulating Sup- plies Co.
†1258	Amber, spotted, 4" x 4"	Central Aust.	12 "	do.	0 12 0	
†1259	Morganite Slabs, C.M. 3, 5½" x 2½" x ¼"	U.K.	6	each	0 8 6	British General Electric Co. Ltd.
1260	Pins, Fusable, "Hecla," for glue pots	Vict.	12	do.	0 0 2	Australian General Elec- tric Co. Ltd.
Plugs and Sockets, Wall—						
†1261	2-pin, 5 amp., Handshield	U.K.	125	do.	0 1 2½	Noyes Bros. (Melb.) Pty. Ltd.
†1262	2-pin, 10 amp., G.E. 543/2243	U.S.A.	200	do.	0 1 4	Australian General Elec- tric Co. Ltd.
†1263	3-pin, earthing, 5 amp., S. 661	U.K.	150	do.	0 2 0	British General Electric Co. Ltd.
†1264	3-pin, earthing, 10 amp.	"	100	do.	..	To be ordered under Item 1263
Plugs and Switches combined—						
†1265	5 amp.	U.K.	25	do.	0 3 1	} Lawrence & Hanson Electrical Co. Ltd.
†1266	15 amp.	"	12	do.	0 7 3	
• 1267	Reflectors, Vitreous, enamelled— 14" B.C. Holder, Bedd-a-150	N.S.W.	50	do.	0 5 9	Australian General Elec- tric Co. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ELECTRICAL FITTINGS—continued.						
1268	Reflectors, Vitreous, enamelled— <i>continued.</i> 15" B.C. Holder, Benjamin No. 4662 ..	U.K.	36	each	0 13 2	British General Electric Co. Ltd.
1269	18" E.S. Holder, Benjamin No. 4673 ..	"	24	do.	0 16 1	H. Rowe & Co. Pty. Ltd.
1270	Elliptical Angle Type, Benjamin No. 4782 ..	"	50	do.	..	Nil
†1271	Reflectors, Enamelled Iron— 10" x 1½" hole	Continental	250	do.	0 0 6½	Edison Swan Electric Co. Ltd.
†1272	Shade, Opal, 10" x 1½" hole	Japan	500	do.	0 0 7½	Noyes Bros. (Melb.) Pty. Ltd.
†1273	Roses, Ceiling— 2-plate, vitreous porcelain	Germany	600	do.	0 0 4	Lawrence & Hanson Electrical Co. Ltd.
†1274	3-plate, vitreous porcelain	Continental	30	do.	0 0 5½	Australian General Electric Co. Ltd.
*1275	Shunts and Leads, in sets of 1 shunt and 2 leads, to Specification	Vict.	15 sets	set	0 17 6	Tombs & Howcroft Pty. Ltd.
†1276	Switches, Ironclad Type, 3-pole— 10 amp., suitable for 500 volt, "B.W." ..	N.S.W.	10	each	0 6 7	} Lawrence & Hanson Electrical Co. Ltd.
†1277	20/30 amp., suitable for 500 volt, "B.W." ..	"	5	do.	0 9 3	
†1278	60 amp., suitable for 500 volt, "B.W." ..	"	3	do.	1 3 0	
†1279	Switches, Double Pole, Tumbler— 5 amp., suitable for 250 volt, 3050 ..	U.K.	100	dozen	2 1 10	H. Rowe & Co. Pty. Ltd.
†1280	10 amp., suitable for 250 volt	"	150	do.	..	Nil
†1281	20 amp., suitable for 250 volt, G.E. 986 ..	U.S.A.	12	each	0 3 10	Australian General Electric Co. Ltd.
†1282	Switches, Single-pole, Tumbler— 5 amp., 250 volt	Vict.	700	do.	0 1 2½	Noyes Bros. (Melb.) Pty. Ltd.
†1283	10 amp., 250 volt	U.K.	200	do.	0 1 10	Siemens (Aust.) Pty. Ltd.
†1284	Switches— 2-way, 5 amp., 250 volt	Vict.	50	do.	0 1 10½	Noyes Bros. (Melb.) Pty. Ltd.
†1285	Ceiling, 5 amp., 250 volt	U.K.	400	do.	0 2 8	Remingtons Pty. Ltd.
†1286	Insulated Bases, covers and knobs, 5 amp., 250 volt	Vict.	300	do.	0 1 2½	Noyes Bros. (Melb.) Pty. Ltd.
†1287	Torches, Hand, Electric, complete, with 3-cell battery and lamp, No. 6124, "Winchester" (refills Australia)	U.S.A. & Aust.	80	do.	0 5 9	British General Electric Co. Ltd.
1288 to 1310	} Nil					

LEATHER GLOVES.

(1.7.1930 to 30.9.1931.)

The Gloves shall be manufactured from Chrome Tanned Leather, and shall have reinforced thumb and finger seams. All material and workmanship shall be of the very best quality for the purpose.

†1311	Gloves, Chrome Tanned Leather Palm, and Canvas back. Sample No. 3782	Victoria	4,000 pairs	pair	0 1 9	Simpson's Gloves Pty. Ltd.
1312	Nil					

MILD STEEL PLATES.

(1.7.1930 to 30.9.1931.)

SPECIFICATION.

The Mild Steel Plates shall be manufactured from steel made from selected material by the open hearth or electric process and shall show on analysis not more than .06 per centum of sulphur or of phosphorus. The Contractor shall supply an analysis at his own expense when required so to do.

MILD STEEL PLATES—continued.

The Mild Steel Plates, if required for Locomotives, shall be in accordance with Specification No. 17/1911, of Report No. 24 of the British Engineering Standards Association, and if required for Cars and Wagons, shall be in accordance with Specification No. 18/1911, of Report No. 24 of the British Engineering Standards Association as applied to Mild-Steel Plates except that the rolling margin shall be as follows :—

Each Plate shall be true to the ordered thickness within the following limits of tolerance.

Thickness.	Up to 48" wide.		Over 48" up to 60" wide.		Over 60" up to 72" wide.		Over 72" up to 84" wide.		Over 84" up to 96" wide.		Over 96" up to 108" wide.		Over 108" up to 120" wide.	
	Over.	Under.	Over.	Under.	Over.	Under.	Over.	Under.	Over.	Under.	Over.	Under.	Over.	Under.
$\frac{1}{8}$ "	9.0	3.0	10.0	3.0	11.0	3.0	12.0	3.0	14.0	3.0	..	..	..	..
$\frac{1}{4}$ "	7.5	2.5	8.5	2.3	9.0	3.0	10.0	3.0	11.0	3.0	13.0	3.0	15.0	3.0
$\frac{3}{8}$ "	6.0	2.5	7.0	2.5	8.0	2.5	9.0	2.5	10.0	2.5	11.0	2.5	13.0	3.0
$\frac{1}{2}$ "	5.0	2.5	5.5	2.5	6.5	2.5	7.5	2.5	8.5	2.5	9.5	2.5	10.5	2.5
$\frac{5}{8}$ "	4.0	2.5	4.5	2.5	5.0	2.5	6.0	2.5	7.0	2.5	8.0	2.5	9.0	2.5
$\frac{3}{4}$ " and $\frac{7}{8}$ " ..	3.0	2.5	3.5	2.5	4.0	2.5	4.5	2.5	5.5	2.5	6.5	2.5	7.5	2.5
$\frac{1}{2}$ " and $\frac{3}{4}$ " ..	2.5	2.5	2.5	2.5	3.0	2.5	3.5	2.5	4.0	2.5	5.0	2.5	6.0	2.5
$\frac{3}{4}$ " and $\frac{1}{2}$ " ..	2.5	2.5	2.5	2.5	2.5	2.5	3.0	2.5	3.5	2.5	4.0	2.5	5.0	2.5
$\frac{1}{2}$ "	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	2.5	3.5	2.5	4.5	2.5
1"	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	2.5	3.0	2.5	3.5	2.5
Over 1" ..	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5

Plates sheared to size shall not be under nor more than $\frac{1}{8}$ inch over the ordered length or width.

Should the material fail to comply in any particular with this specification, it shall be liable to rejection.

Inspection and tests, including surface inspection, for Plates ordered for indent will be conducted in the presence of the Departmental Inspecting Engineer at the works of the manufacturer, by and at the cost of the manufacturer.

The Inspecting Engineer shall measure the thickness of each Plate on all edges in course of surface inspection, to ascertain if it is within the specified limits of tolerance.

Weight to be paid for shall not exceed 5 per cent. over calculated weight of the ordered size for any plate $\frac{1}{8}$ inch thick or $2\frac{1}{2}$ per cent. over calculated weight of the ordered size for any Plate in excess of $\frac{1}{8}$ inch thick.

(Basis—one cubic inch of rolled steel weighs 0.2833 lb.)

The rates quoted cover delivery loaded into railway trucks at Victoria Dock or Montague, or where and as directed at the Spencer-street Goods Sheds at the Contractor's option. If delivered at Spencer-street cartage charges shall be to the Contractor's account.

The Corporation will pay the cost of exchange on any plates delivered, at the ruling rate of telegraphic transfer on the date of delivery, such exchange shall be payable on the contract rate, plus extras, where applicable. The date of the arrival of the vessel shall be regarded as the date of delivery of any plates ordered for importation. As regards Item 1336, for delivery ex local stocks, exchange will be payable on the contract rate, excluding the charge of 30s. per ton; documentary evidence of payment or value will not be required.

The Plates ordered for indent shall be delivered within three months, and those for delivery ex stock within 24 hours. The Plates under this contract will be for maintenance purposes only, and in the event of the Corporation deciding to invite tenders for the supply and delivery of plates for construction purposes, acceptance of any such tender shall not be regarded as an infringement of this contract.

Notwithstanding that the rates tendered are for delivery as set out above, the contract provides for the rejection of any plates not received at Newport or Spotswood in good order and condition.

The Officer ordering plates for indent shall prepare a letter to the Secretary requesting him to forward a copy of the order to the Agent-General to arrange inspection, and at the same time request that the following cablegram be despatched :—

"Contract 43821, tons Steel Plates for....."

Arrange inspection. Copy order..... posted."

The Inspecting Engineer will need to rely on the sizes cabled to the Manufacturer by the Contractor in Melbourne, as it is not proposed to cable particulars of sizes, but the cablegram should show whether required for cars, wagons, or locomotives.

Plates may be ordered for urgent delivery from stocks held in Melbourne (see Item 1336), and in such cases delivery shall be given at the Spencer-street Goods Sheds, and the rate in the contract shall be fully inclusive of all charges excepting Customs Duty and Exchange. The Contractor is only liable to supply plates held in stock. Inspection of any plates supplied ex stock in Melbourne will be conducted at Newport or Spotswood, as the case may be.

Stevedoring charges and Customs Duty will be paid and wharfage arranged by the Corporation on all plates ordered for indent. The Contractor should be requested to have the Bill of Lading made out in favour of the Victorian Railways Commissioners, and to forward documents for Customs purposes in sufficient time to avoid delay in delivery and despatch. Any increased cost incurred by the Corporation through the Contractor's failure to supply proper documents may be deducted from money due to the Contractor.

Payment will be made in Melbourne.

Minimum quantity that may be ordered for indent is 1 ton.

The plates will be manufactured by Stewarts and Lloyds Ltd., Glasgow, Scotland.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
MILD STEEL PLATES—continued.							
	Mild Steel Rectangular Plates, any lengths or widths, as may be ordered—						
1313	$\frac{3}{16}$ " thick up to 57" wide	U.K.	400 tons	ton	10 9 0*	Stewarts & Lloyds (Australia) Ltd.	
1314	$\frac{1}{2}$ " thick up to 60" wide	"		do.	10 4 0*		
1315	$\frac{5}{16}$ " thick up to 66" wide	"		do.	9 19 0*		
1316	$\frac{3}{8}$ " thick up to 75" wide	"		do.	9 14 0*		
1317	$\frac{1}{2}$ " thick up to 84" wide	"		do.	9 14 0*		
1318	$\frac{1}{2}$ " thick up to 90" wide	"		do.	9 14 0*		
1319	$\frac{1}{16}$ " thick and up, rising by $\frac{1}{16}$ " or $\frac{1}{8}$ ", up to 96" wide	"		do.	9 14 0*		
	Extras for width—						
1320	$\frac{3}{16}$ " exceeding 57" wide up to 60" wide ..	"		do.	0 10 0		
1321	$\frac{3}{16}$ " exceeding 60" wide up to 63" wide ..	"		do.	0 15 0		
1322	$\frac{3}{16}$ " exceeding 63" wide up to 66" wide ..	"		do.	1 0 0		
1323	$\frac{3}{16}$ " exceeding 66" wide up to 69" wide ..	"		do.	1 10 0		
1324	$\frac{3}{16}$ " exceeding 69" wide up to 72" wide ..	"		do.	2 5 0		
	For every 3" or part over the following limits:—						
1325	$\frac{1}{4}$ " over 60" wide	"		do.	0 2 6		
1326	$\frac{1}{4}$ " over 66" wide	"		do.	0 2 6		
1327	$\frac{3}{8}$ " over 75" wide	"		do.	0 2 6		
1328	$\frac{1}{2}$ " over 84" wide	"		do.	0 2 6		
1329	$\frac{1}{2}$ " over 90" wide	"		do.	0 2 6		
1330	$\frac{3}{16}$ " and up, 96" wide	"		do.	0 2 6		
1331	Extra for lengths over 30' 0" up to 40' 0" ..	"		do.	..		
	Extras for Narrowness—						
1332	Sheared plates 20' long and upwards and under 18" down to and including 12" wide	U.K.		do.	0 5 0		
1333	Sheared plates 15' long and upwards and under 12" wide	"		do.	0 10 0		
	Extras for Smallness—						
1334	All plates under 4 square feet in area ..	"		do.	0 10 0		
1335	All plates resheared within $\frac{1}{8}$ "	"		do.	1 0 0		
1336	Extra for delivery ex stock in Melbourne ..	"		do.	1 10 0		
1337 to 1340	Nil						

* See notes regarding place of delivery and extras payable.

HELIOGRAPHIC PROCESS MATERIALS AND CARBONS FOR ARC LAMPS.
(1.7.1930 to 30.9.1931.)

As regards Items 1341 to 1350, Harding and Halden Sensitizing Co. (Overseas) Ltd., of "Alliance" House, 9 Barrack-street, Sydney, N.S.W., is the Contractor, but all orders will be satisfied by its Melbourne agent, the Commercial Copying Co. of Temple Court, 422 Collins-street, Melbourne, and orders are to be placed on the Contractor, care of the latter company. Payment is to be made to the Melbourne agents on production of the necessary authority.

HELIOGRAPHIC PROCESS MATERIALS.						
	Linen, Ferro Prussiate—					
†1341	30" wide x 20 yards long	N.S.W.	75 rolls	roll	1 18 0*	Harding & Halden Sensitizing Co. (Overseas) Ltd.
†1342	40" wide x 20 yards long	"	60 "	do.	2 8 0*	
	Linen, Heliographic, Gallic Acid Bath—					
†1343	30" wide x 20 yards long	"	24 "	do.	2 8 6*	
†1344	40" wide x 20 yards long	"	24 "	do.	3 0 0*	
	Paper, Ferro Prussiate, base—					
1345	30"/31½" wide	U.K.	1 ton	ton	69 0 0	
1346	40" wide	"	1 "	do.	69 0 0	
	Paper, Heliographic, Gallic Acid Bath—					
†1347	30"/31½" wide x 20 yards long	N.S.W.	150 rolls	roll	0 9 3*	
†1348	40" wide x 20 yards long	"	150 "	do.	0 12 4*	
	Paper, Sepia, thin, negative—					
†1349	30" wide x 20 yards long	"	12 "	do.	1 0 0*	
†1350	40" wide x 20 yards long	"	5 "	do.	1 5 0*	

* Rates are subject to a discount of 2½ per cent. for payment within 30 days of receipt of material.

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
HELIOGRAPHIC PROCESS MATERIALS AND CARBONS FOR ARC LAMPS—continued.						
CARBONS FOR ARC LAMPS.						
†1351	12" long x 13 mm. dia. solid	..	200	100	..	} Nil
†1352	12" long x 13 mm. dia. cored, white flame	..	200	100	..	
†1353	12" long x 18 mm. dia. cored, white flame	..	200	100	..	
1354 to 1366	} Nil					

DRILLS FOR RAIL BORING MACHINE.
(1.7.1930 to 30.9.1931.)

The Drills shall be in accordance with sample exhibited as regards section of steel and form of grinding. The steel shall be of such quality and temper as to withstand boring a minimum of 10 holes through rail steel $\frac{5}{8}$ inch thick of the following chemical composition:—Carbon up to 0.75 per cent. and Manganese up to 0.90 per cent., without requiring to be re-ground and shall withstand the same test after re-grinding.

The sample exhibited by the Corporation marked "Sample No. 1" shows the shape of drill required is not yet hardened, and is not a sample in that respect.

*1367	Drills, Flat, Ribbed, for Rail Boring Machine, $1\frac{1}{4}$ " diameter, 6" long	..	Nil			
1368 to 1370	} Nil					

STEEL CLOTHES LOCKERS.

(1.7.1930 to 30.9.1931.)

Sets.—The lockers shall be supplied in single lockers or in sets of two to six lockers conjoined as ordered.

Materials.—The lockers shall be constructed of 22 gauge mild steel sheets with folded rebated styles and rails of 18 gauge mild steel.

Welding, &c.—All joints and contacts shall be electrically welded or spot welded, and all necessary bolts and rivets shall be supplied and fixed. Lock nuts and spring washers shall be used where necessary to make all fittings and fastenings permanently secure.

Dimensions.—Each locker shall be 15 inches x 15 inches x 72 inches high including 4-in. sheeted base.

Shelves.—Each locker shall be fitted with a shelf 9 inches below the top, and a second shelf 15 inches below the top if so ordered. Each shelf shall have a rolled or folded front edge. The bottom of the locker shall be 4 inches above floor level.

Doors.—The doors shall be of 18 gauge M.S. Sheet, approximately 13 inches wide by 5 feet 6 inches high, reinforced and returned 1 inch into rebated frame, and shall be perforated with holes of $\frac{1}{4}$ -in. diameter at $\frac{3}{4}$ -in. pitch to form two equal panels with plain styles and rails. Each door shall be hung with 3 No. 3-in. steel butts.

Fastenings.—Each locker door shall be secured by a compound espagnolette rod bolt having horizontal tongues at top and bottom, operated by a perforated cast gun metal handle fixed at centre rail of door engaging a perforated gun metal lug secured to locker style. Each door shall be provided with an approved $1\frac{1}{4}$ -in. brass padlock with two keys. All padlocks shall differ.

Fittings.—Each locker shall be fitted with one approved oxidized three way coat hanger fixed under the centre of the shelf or shelves, and an approved oxidized hook on each side wall.

Enamel.—The lockers shall be free from all imperfections and blemishes and shall be finished inside and out in the best description of stove enamel, coloured olive green outside and white inside.

Numbering.—Numbers if ordered shall be written on the doors in $1\frac{1}{4}$ -in. white figures.

Inspection.—The lockers shall be manufactured under the supervision, and to the entire satisfaction of the Inspector of Ironwork of the Way and Works Branch of the Victorian Railways.

*1371	Lockers, Clothes, Steel, 15" x 15" x 72", stove enamelled, in single lockers or in sets of two to six lockers, conjoined, and with one or two shelves each as ordered. Padlock with two keys for each locker, and numbering of lockers if ordered to be included	..	100	locker	..	Nil.
1372 to 1373	} Nil					

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	

WOOL YARN PADS AND SKEINS.
(1.7.1930 to 30.9.1931.)

Samples of the Wool Yarn Pads and Skeins required may be inspected at the Sample Room, No. 20A, Railway Offices, Spencer-street, Melbourne, but the Tenderer shall supply with his tender sample skeins lapped and bound into pads and skeins of the Wool Yarn he tenders to supply which, if accepted, shall become the contract samples.

The Wool Yarn Pads and Skeins are for use for lubricating railway rolling-stock axle journals.

The Wool Yarn Pads, Items Nos. 1374 and 1374A, shall be supplied in continuous thread skeins of approximately 5 oz. in weight each for 6 inches x 3 inches diameter pads, ranging to approximately 16 oz. for 9 inches x 4 inches diameter pads, made up into pads by lapping them, and tied (with binding twine of the best quality) in that form, in any length from 6 inches to 9 inches inclusive by any diameter from 3 inches to 4 inches inclusive, as may be ordered, and in the quantity as may be ordered from time to time, during the continuance of this contract.

The Skeins shown opposite Item 1374B shall be continuous thread skeins 24 inches in length and approximately 8 oz. in weight each.

The necessary tests to ascertain whether the Wool Yarn delivered complies in every respect with this Specification will be conducted, and should more than 10 per cent. of any delivery fail to comply with the Specification, the whole of such delivery will be liable to rejection.

The Wool Yarn Pads, Items Nos. 1374 and 1374A, shall be provisionally delivered in the quantity and in the lengths and diameters as may be ordered, packed in case, or bales, with the net weight plainly marked on each case or bale, and deposited where and as directed at the Metropolitan Car and Wagon Shops, North Melbourne, and the Wool Yarn Skeins shown opposite Item 1374B will be similarly packed and delivered to the Jolimont Workshops, Batman-avenue.

As regards Items Nos. 1374 and 1374A, orders are to be placed on both Contractors in equal proportions until the maximum quantity of 3 tons has been ordered and supplied by the Ballarat Woollen & Worsted Co. Ltd., after which orders are to be placed on the Geelong R.S. & S. Woollen & Worsted Co-op. Mfg. Co. Ltd., provided satisfactory service is rendered.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
†1374	Wool Yarn Pads, 6" long x 3" diameter to 9" long x 4" diameter, as may be ordered and as specified	Vict.	3 tons	lb.	0 1 2	Ballarat Woollen & Worsted Co. Ltd.
†1374A	Wool Yarn Pads, 6" long x 3" diameter to 9" long x 4" diameter, as may be ordered and as specified	"	9 "	do.	0 1 2½	Geelong R.S. & S. Woollen & Worsted Co-op. Mfg. Co. Ltd.
†1374B	Wool Yarn, in Skeins, 24" long	"	3 "	do	0 1 1	Ballarat Woollen & Worsted Co. Ltd.

APPENDIX "A."

LOCOMOTIVE CYLINDER OIL.—SPECIFICATION L.1.—Items 1 and 2.

Scope.—This Specification covers the grade of petroleum oil required for the lubrication of the Cylinders and Valves of Superheater and Saturated Locomotive Steam-engines, using either mechanical lubricators or those operating on the hydrostatic principle.

Manufacture.—The oil shall be a refined petroleum product, with the addition of acidless animal oil.

Properties and Tests.—The oil shall be free from mineral acids and alkali, and asphaltic, tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder:—

Constants.	Superheated Steam.		Saturated Steam.	
	Maximum.	Minimum.	Maximum.	Minimum.
Viscosity at 212° F., dynes per sq. cm.	0.40	0.25	0.32	0.24
Fire Point, degrees Fahr.	50	..	50	..
Pour Point, degrees Fahr.	6	..	8	..
Saponifiable Matter, per cent.	3	..	3	..
Carbon Residue .. ..	..	..	..	..

Oils submitted under this Specification will be subjected to tests to determine the following properties:—

- Specific Gravity, 15.5° C./15.0° C.,
- Viscosity at 70° F., dynes per sq. cm.,
- .. at 100° F., dynes per sq. cm.,
- .. 140° F.
- .. 212° F.
- Fire Point,
- Pour Point,

- Volatility* at 400° F.,
- .. * at 500° F.,
- .. * at 600° F.,
- Precipitation Number or Gasolene Test
- after heating one hour at 600° F.,
- Carbon Residue,

and consideration will be given to the results obtained in deciding the oil to be accepted. It is desirable that the volatility loss and precipitation number should be as low as possible.

* The volatility loss, after heating the oil for one hour at the temperature given, will be determined in the V.R. Laboratory Apparatus, designed generally on the lines of Conradson's Apparatus. See *L. Ind. Eng. Chem.* 4 (1912); also Hamer and Pagott, *The Examination of Petroleum* (1922).

APPENDIX "A"—continued.

LOCOMOTIVE CYLINDER OIL, ETC.—continued.

Constants obtained on Tests.—In the event of the Tender being accepted, the results of the above tests as determined in the Departmental Laboratory shall be incorporated in the Contract, and all deliveries shall reasonably agree therewith.

Information to be Supplied by Tenderer.—The Tenderer shall supply the following information regarding the oils he tenders to supply:—

Specific Gravity 15.5°C./15.0°C.	..	..	..	..
Viscosity at 70° F. dynes per square cm.	..	..	..	..
" 100° F. " " " "	..	..	..	..
" 140° F. " " " "	..	..	..	..
" 212° F. " " " "	..	..	..	..
Fire Point degrees Fah.	..	..	..	..
Pour " " "	..	..	..	..
Saponifiable matter, per cent.	..	..	..	..
Carbon residue	..	..	..	..

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least 5 (five) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of each delivery.

Testing.—With the exception of the Volatility Tests, the sample shall be tested according to methods set out in "Circular of the Australian Railways: Testing of Lubricating, Illuminating, and Fuel Oils, &c."

LOCOMOTIVE BEARING OIL.— SPECIFICATION L.2.—Items 3 and 4.

Scope.—This Specification covers the grade of Petroleum Oil required for use on the Bearings and Motions of Steam Locomotives. Two grades are specified—the one for summer, the other for winter use.

Manufacture.—The oil shall be a refined petroleum product. The Tenderer shall state whether a straight Mineral or Compounded Oil is offered; if the latter, he shall indicate the nature and percentage of the compound used in the manufacture of the Bearing Oil.

Properties and Tests.—The oil shall be free from mineral acid or alkali, and from asphaltic, or tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder:—

	Summer.		Winter.	
	Maximum.	Minimum.	Maximum.	Minimum.
Viscosity at 140° F. dynes per sq. cm.	1.0	0.80	0.80	0.65
Fire Point, degrees Fahr.	..	400	..	375
Pour Point, degrees Fahr.	40	..	25	..
Syphon Test, cubic centimetres at 140° F.	..	3.0	..	4.0
Saponifiable Matter, per cent.	20	..	20	..

Oils submitted under this Specification will be subjected to tests to determine the following properties:—

Specific Gravity, 15.5° C./15.0° C.,	Fire Point,
Viscosity at 70° F., dynes per sq. c.m.,	Pour Point,
" at 100° F., dynes per sq. cm.,	Syphon Test,
" 140° F. " " " "	Saponifiable Matter,
" 212° F. " " " "	

and consideration will be given to the results obtained in deciding the oil to be accepted.

Constants obtained on Tests.—In the event of the Tender being accepted, the results of the above tests as determined in the Departmental Laboratory shall be incorporated in the Contract, and all deliveries shall reasonably agree therewith.

Information to be Supplied by Tenderer.—The Tenderer shall supply the following information regarding the oils he tenders to supply:—

Specific Gravity 15.5°C./15.0° C.	..	..	..
Viscosity at 70° F. dynes per square cm.	..	..	..
" 100° F. " " " "	..	..	..
" 140° F. " " " "	..	..	..
" 212° F. " " " "	..	..	..
Fire Point, degrees Fah.	..	..	..
Pour " " "	..	..	..
Syphon Test " " "	..	..	..
Saponifiable matter, per cent.	..	..	..

Sampling.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

Testing.—The sample shall be tested according to the methods described in "Circular of the Australian Railways: Testing of Lubricating, Illuminating, and Fuel Oils, &c."

APPENDIX "A"—continued.

CAR AND WAGON OIL (BLACK OIL).—SPECIFICATION L.3.—Item 5.

Scope.—This Specification covers the grade of Petroleum Oil required for the lubrication of the Axle Journals of Railway Carriages and Wagons.

Manufacture.—The oil shall be a refined petroleum product, free from admixture with any compounding material whatsoever.

Properties and Tests.—The oil shall be free from mineral acid and alkali, and asphaltic, tarry, or suspended matter; and in other respects shall comply with the conditions mentioned hereunder :—

	Maximum.	Minimum.
Viscosity at 70° F.	10·5	8·3
Viscosity at 140° F., dynes per sq. cm.	0·52	0·48
Fire Point, degrees Fahr. . . . .	..	400
Pour Point, degrees Fahr.	25	..
Syphon Test, cubic centimetres at 140° F. . . . .	..	5·0

Oils submitted under this Specification will be subjected to tests to determine the following properties :—

Specific Gravity, 15·5° C./15·0° C.,	Fire Point,
Viscosity at 70° F., dynes per sq. cm.,	Pour Point,
" 100° F. " " " "	Syphon Test,
" 140° F. " " " "	Saponifiable Matter,

and consideration will be given to the results obtained in deciding the oil to be accepted.

Constants obtained on Tests.—In the event of the Tender being accepted, the results of the above tests as determined in the Departmental Laboratory shall be incorporated in the Contract, and all deliveries shall reasonably agree therewith.

Information to be Supplied by Tenderer.—The Tenderer shall supply the following information regarding the oils he tenders to supply :—

Specific Gravity 15·5° C./15·0° C. . . . .	..	..	..	..	..
Viscosity at 70° F. dynes per square cm. . . . .	..	..	..	..	..
" 100° F. " " " "	..	..	..	..	..
" 140° F. " " " "	..	..	..	..	..
Fire Point, degrees Fahr. . . . .	..	..	..	..	..
Pour " " " " " "	..	..	..	..	..
Syphon Test . . . . .	..	..	..	..	..

Sampling.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

Testing.—The sample shall be tested according to the methods set out in "Circular of the Australian Railways: Testing of Lubricating, Illuminating, and Fuel Oils, &c."

CAR OIL (RED OIL).—SPECIFICATION L.3A.—Item 6.

Scope.—This Specification covers the grade of Petroleum Oil required for the lubrication of the Axle Journals of Railway Carriages.

Manufacture.—The oil shall be a refined filtered petroleum oil, free from admixture with any compounding material whatsoever.

Properties and Tests.—The oil shall be free from mineral acid and alkali, and asphaltic, tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder :—

	Maximum.	Minimum.
Viscosity at 70° F.	3·50	2·90
Viscosity at 140° F., dynes per sq. cm.	0·35	0·25
Fire Point, degrees Fahr. . . . .	..	370
Pour Point, degrees Fahr.	5	..
Syphon Test, cubic centimetres at 140° F. . . . .	..	7·0

Oils submitted under this Specification will be subjected to tests to determine the following properties :—

Specific Gravity, 15·5° C./15·0° C.,	Pour Point,
Viscosity at 70° F., dynes per sq. cm.,	Syphon Test,
" 100° F. " " "	Saponifiable Matter,
" 140° F. " " "	Carbon Residue,
Fire Point,	

and consideration will be given to the results obtained in deciding the oil to be accepted.

Constants obtained on Tests.—In the event of the Tender being accepted, the results of the above tests as determined in the Departmental Laboratory shall be incorporated in the Contract, and all deliveries shall reasonably agree therewith.

APPENDIX "A"—continued.

CAR OIL (RED OIL), ETC.—continued.

Information to be Supplied by Tenderer.—The Tenderer shall supply the following information regarding the oils he tenders to supply:—

Specific Gravity 15·5° C./15·0° C.	..	..	..	..
Viscosity at 70° F. dynes per square cm.	..	..	..	..
" 100° F. " " " "	..	..	..	..
" 140° F. " " " "	..	..	..	..
Fire Point, degrees Fah.	..	..	..	..
Pour " " " "	..	..	..	..
Syphon Test	..	..	..	..

Sampling.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

Testing.—The sample shall be tested according to the methods set out in "Circular of the Australian Railways: Testing of Lubricating, Illuminating, and Fuel Oils, &c."

The different classes of oil required shall be supplied in casks branded "Super. Cyl. Oil," "Sat. Cil. Oil," "Sum. Bear," "Win. Bear," "C. & W.," "Car," as the case may be.

Payment.—Payment will be made on gallonage calculated on net weight ascertained by approved methods by the Comptroller of Stores or his representative at the place of delivery, and the specific gravity ascertained in the Victorian Railways Laboratory from samples drawn from such delivery.

APPENDIX "B."

MOTOR ENGINE OILS.—SPECIFICATION L.4.—Items 11 to 17.

Scope.—This Specification covers the grade of petroleum oil required for the lubrication of Internal Combustion Engine Cylinders and Refrigerating Machinery.

Four grades are specified, known as extra light, light, medium, and extra heavy, and the order of contract shall state the grade of oil required and the purpose for which it is to be used.

Manufacture.—The oil shall be a thoroughly refined, filtered petroleum oil, without the admixture of fatty oils, resins, soaps, and other compounds.

Properties and Tests.—The oil shall be free from mineral acids and alkali, and asphaltic, tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder:—

	Viscosity at 140° F., dynes per sq., cm.		Fire Point, degrees Fahr.	Pour Point, degrees Fahr.	Carbon Residue, per cent.
	Maximum.	Minimum.	Minimum.	Maximum.	Maximum.
Extra Light	0·15	0·12	370	0	·05
Light	0·25	0·18	400	10	·10
Medium	0·30	0·22	430	15	·40
Extra Heavy	1·25	1·00	570	35	1·00

Special Tests.—The oils submitted under this Specification will be submitted to tests to determine the following properties:—

Specific Gravity, 15·5° C./15·0° C.,	Pour Point,
Viscosity at 70° F., dynes per sq. cm.,	Volatility,
" 100° F. " " "	Carbon Residue,
" 140° F. " " "	Ash,
Fire Point,	Organic Acidity,

and consideration will be given to the results obtained in deciding the oil to be accepted.

In the event of the tender being accepted, the results of the above tests as determined in the Departmental Laboratory shall be incorporated in the Contract, and all deliveries shall agree therewith.

Information to be Supplied by Tenderer.—Items Nos. 11 to 17.—The Tenderer shall supply the following information regarding the Oil he tenders to supply:—

Specific Gravity, 15·5° C./15·0° C.	..	..	..
Viscosity at 70° F., dynes per square cm.	..	..	..
" 100° F., " " " "	..	..	..
" 140° F., " " " "	..	..	..
" 200° F., " " " "	..	..	..
Fire Point, degrees F.	..	..	..
Pour Point, degrees F.	..	..	..
Volatility, 2 hours at 250° F., per cent.	..	..	..
Carbon Residue, per cent.	..	..	..
Ash, per cent.	..	..	..
Organic Acidity, per cent.	..	..	..

APPENDIX "B"—continued.

MOTOR ENGINE OILS, ETC.—continued.

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of each delivery.

Method of Testing.—The sample shall be tested according to the methods described in "Circular of the Australian Railways: Testing of Lubricating, Illuminating, and Fuel Oils, &c."

KEROSENE ENGINE OILS.—SPECIFICATION L.4A.—Item 18.

Scope.—This Specification covers the grade of petroleum oil required for the lubrication of Kerosene Engine Cylinders.

Manufacture.—The oil shall be a thoroughly refined, filtered petroleum oil with the addition of acidless animal oil.

Properties and Tests.—The oil shall be free from mineral acids and alkali, and asphaltic, tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder:—

Grade.	Viscosity at 140°.		Fire Point.	Sapon. Matter.	Pour Point.	Carbon Residue.
	Maximum.	Minimum.	Minimum.	Maximum.	Maximum.	Maximum.
Medium ..	0.35	0.28	390	8		

Special Tests.—The oils submitted under this Specification will be submitted to tests to determine the following properties:—

Specific Gravity, 15.5° C./15.0° C.,	Volatility,
Viscosity at 70° F., dynes per sq. cm.,	Carbon Residue,
..... " 100° F., " " " "	Ash,
..... " 140° F., " " " "	Organic Acidity,
Fire Point,	Saponifiable Matter,
Pour Point,	

and consideration will be given to the results obtained in deciding the oil to be accepted.

In the event of the tender being accepted, the results of the above tests as determined in the Departmental Laboratory shall be incorporated in the Contract, and all deliveries shall agree therewith.

Information to be Supplied by Tenderer.—Item No. 18.—The Tenderer shall supply the following information regarding the Oil he tenders to supply:—

Specific Gravity, 15.5° C./15.0° C.	..	..	.....
Viscosity at 70° F., dynes per square cm.	..	..	.....
..... " 100° F., " " " "	..	..	.....
..... " 140° F., " " " "	..	..	.....
..... " 200° F., " " " "	..	..	.....
Fire Point, degrees F.	..	..	.....
Pour Point, degrees F.	..	..	.....
Volatility, 2 hours at 200° F., per cent.	..	..	.....
Carbon Residue, per cent.	..	..	.....
Ash, per cent.	..	..	.....
Organic Acidity, per cent.	..	..	.....
Saponifiable Matter, per cent.	..	..	.....

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of each delivery.

Method of Testing.—The sample shall be tested according to the methods described in "Circular of the Australian Railways: Testing of Lubricating, Illuminating, and Fuel Oils, &c."

MACHINERY OILS.—SPECIFICATION L.5—Items 19 to 24.

Scope.—This Specification covers the grade of petroleum oil required for the lubrication of Bearings of Machinery. This oil is not to be used for steam cylinder lubrication.

Six grades are specified, known as extra light, light, medium, heavy, extra heavy, and extra heavy special.

Manufacture.—The oil shall be a refined petroleum oil, without the admixture of fatty oils, resins, soaps, or other compounds not derived from crude petroleum, and must be entirely free from fillers.

APPENDIX "B"—continued.

MACHINERY OILS, ETC.—continued.

Properties and Tests.—The oil shall be free from mineral acid and alkali, and asphaltic, tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder :—

	Viscosity at 140° F., dynes per sq. cm.		Fire Point, degrees Fahr.	Pour Point, degrees Fahr.
	Maximum.	Minimum.	Minimum.	Maximum.
Extra Light	0·15	0·12	370	30
Light	0·25	0·18	380	30
Medium	0·35	0·28	390	30
Heavy	0·50	0·38	400	30
Extra Heavy	0·80	0·55	410	40
Extra Heavy Special	1·50	0·85	450	40

Special Tests.—The oils submitted under this Specification will be subjected to tests to determine the following properties :—

Specific Gravity at 15·5° C./15·0° C.,	Fire Point, Pour Point,
Viscosity at 70° F., dynes per sq. cm.	
" 100° F. "	
" 140° F. "	

and consideration will be given to the results obtained in deciding the oil to be accepted.

In the event of the tender being accepted, the results of the above tests as determined in the Departmental Laboratory shall be incorporated in the Contract, and all deliveries shall agree therewith.

Information to be Supplied by Tenderer.—Items Nos. 19 to 24.—The Tenderer shall supply the following information regarding the Oil he tenders to supply :—

Specific Gravity, 15·5° C./15·0° C.	..	..	.....
Viscosity at 70° F., dynes per square cm.	..	..	.....
" 100° F., " " " "	..	..	.....
" 140° F., " " " "	..	..	.....
" 200° F., " " " "	..	..	.....
Fire Point, degrees F.	..	..	.....
Pour Point, degrees F.	..	..	.....

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of each delivery.

Method of Testing.—The sample shall be tested according to the methods described in "Circular of the Australian Railways : Testing of Lubricating, Illuminating, and Fuel Oils, &c."

TURBINE AND COMPRESSOR OILS.—SPECIFICATION L.6.—Items 25 and 26.

Scope.—This Specification covers the grade of petroleum oil required for the lubrication of Turbines, Air Compressors, and Machinery on which the circulating system of lubricating is employed.

Manufacture.—The oil shall be a thoroughly refined filtered petroleum oil, without the admixture of fatty oils, resins, soaps, and other compounds.

The Tenderer shall state what compounding matter has been used.

Properties and Tests.—The oil shall be free from mineral acid and alkali, and asphaltic, tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder :—

	Viscosity at 140° F., dynes per sq. cm.		Fire Point, degrees Fahr.	Pour Point, degrees Fahr.	Carbon Residue, per cent.
	Maximum.	Minimum.	Minimum.	Maximum.	Maximum.
Medium	0·30	0·22	430	25	·30

Special Tests.—Oils submitted under this Specification will be subjected to tests to determine the following properties :—

Specific Gravity, 15·5° C./15·0° C.,	Pour Point, Volatility, Ash, Organic Acidity, Demulsibility,
Viscosity at 100° F., dynes per sq. cm.,	
" 140° F. "	
" 212° F. "	
Fire Point,	

and consideration will be given to the results obtained in deciding the oil to be accepted.

In the event of the tender being accepted, the results of the above tests as determined in the Departmental Laboratory shall be incorporated in the Contract, and all deliveries shall agree therewith.

APPENDIX "B"—continued.

TURBINE AND COMPRESSOR OILS, ETC.—continued.

Information to be Supplied by Tenderer.—Items Nos. 25 to 26.—The Tenderer shall supply the following information regarding the Oil he tenders to supply :—

Specific Gravity, 15·5° C./15·0° C.	..	..	..	.....
Viscosity at 100° F., dynes per square cm.	..	..	..	.....
" 140° F., " " " "	..	..	..	.....
" 212° F., " " " "	..	..	..	.....
Fire Point, degrees F.	..	..	..	.....
Pour Point, degrees F.	..	..	..	.....
Ash, per cent.	..	..	..	.....
Organic Acidity, per cent.	..	..	..	.....
Demulsibility	..	..	..	.....

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

Method of Testing.—The sample shall be tested according to the methods described in "Circular of the Australian Railways: Testing of Lubricating, Illuminating, and Fuel Oils, &c."

TRANSFORMER AND SWITCH OILS.—SPECIFICATION L.7.—Item 27.

Scope.—This Specification covers the grades of petroleum oil required for use in Transformers and Oil Switches.

Two grades are specified, the one for use in Transformers, the other for use in Oil Switches.

Manufacture.—The oil shall be a thoroughly refined, filtered petroleum oil, without the admixture of fatty oils, resins, soaps, or other compounds. It shall be light in colour.

Properties and Tests.—The oil shall be free from mineral acids and alkali, asphaltic, tarry, or suspended matter, and moisture or corrosive sulphur compounds, and in other respects shall comply with the conditions mentioned hereunder :—

	Transformer Oil.		Switch Oil.	
	Maximum.	Minimum.	Maximum.	Minimum.
Viscosity at 100° F., dynes per sq. cm.	0·18	..	0·20	..
Fire Point, degrees Fahr.	..	360	..	370
Pour Point, degrees Fahr.	25	..	25	..
Volatility, 8 hours at 212° F., per cent.	2·0	..	..	..

Special Tests.—Oils submitted under this Specification will be subjected to tests to determine the following properties :—

Specific Gravity, 15·5° C./15·0° C.,	Pour Point,	Saponification Value,
Viscosity at 70° F., dynes per sq. cm.,	Volatility,	Ageing and Sludging,
" 100° F., " " " "	Carbon Residue,	Corrosion,
" 140° F., " " " "	Ash,	Dielectric Strength.
Fire Point,	Organic Acidity,	

and consideration will be given to the results obtained in deciding the oil to be accepted.

Corrosion.—A copper strip shall not appear discoloured when heated in the oil to 150° F.

Ageing and Sludging.—The oil when heated to and maintained at 300° F. in the presence of air and copper for 45 hours shall not show more than 0·1 per cent. of sludge in Transformer Oil.

Dielectric Strength.—When tested between spherical electrodes 0·5 in diameter, 0·15 in. apart, the oil must withstand a pressure of 30,000 volts without breakdown.

In the event of the tender being accepted, the results of the above tests as determined in the Departmental Laboratory shall be incorporated in the Contract, and all deliveries shall agree therewith.

Information to be Supplied by Tenderer.—Item Nos. 27.—The Tenderer shall supply the following information regarding the Oil he tenders to supply :—

Specific Gravity, 15·5° C./15·0° C.	..	..	.....
Viscosity at 70° F., dynes per square c.m	..	..	.....
" 100° F., " " " "	..	..	.....
" 140° F., " " " "	..	..	.....
" 200° F., " " " "	..	..	.....
Fire Point, degrees F.	..	..	.....
Pour Point, degrees F.	..	..	.....
Volatility, 8 hours 212° F., per cent.	..	..	.....
Carbon Residue, per cent.	..	..	.....
Ash, per cent.	..	..	.....
Organic Acidity, per cent.	..	..	.....
Saponification Value, per cent.	..	..	.....
Ageing and Sludging, per cent.	..	..	.....
Corrosion	..	..	.....
Dielectric Strength, volts	..	..	.....

APPENDIX " B "—*continued.*

TRANSFORMER AND SWITCH OILS, ETC.—*continued.*

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

When sampling, scrupulous care must be taken to use only clean containers, &c., and to avoid any contamination of the sample.

Method of Testing.—With the exception of the volatility test, the sample shall be tested according to the methods described in "Circular of the Australian Railways: Testing of Lubricating, Illuminating, and Fuel Oils, &c."

CASTOR OIL.—SPECIFICATION L.8.—*Item 28.*

Scope.—This Specification covers Castor Oil required for use as a lubricant.

Manufacture.—The oil shall be a pure oil extracted from castor seed, refined and clarified by an approved process.

Properties and Tests.—The oil shall be clear and free from sediment and flocs, and in other respects shall comply with the condition mentioned hereunder :—

Acidity, per cent. Oleic Acid, maximum 3.0

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

Method of Testing.—The sample shall be tested according to the methods described in "Circular of the Australian Railways: Testing of Lubricating, Illuminating, and Fuel Oils, &c."

Payment for Oils (Items Nos. 11 to 27) will be made on gallonage calculated on net weight ascertained by approved methods by the Comptroller of Stores or his representative at the place of delivery, and the specific gravity ascertained in the Victorian Railways Laboratory from samples drawn from such delivery.

" APPENDIX C."

GEAR GREASE.—SPECIFICATION M.1.—*Item No. 41.*

Scope.—This Specification covers the grade of grease required for the lubrication of Gears and Conveyors.

Manufacture.—The grease shall be a well-manufactured product, composed of a lime-soap made from high-grade animal or vegetable oils, or fatty acids, and a highly-refined mineral oil, or a mineral oil compounded with high-grade animal fat.

Properties and Tests.—The grease shall comply with the conditions mentioned hereunder :—

	Soap Content, per cent. approximate.	Ash, per cent.	Melting Point.	
			Soft.	Drop.
Dark Gear Grease	18	Maximum. 7.0	Minimum. 148°	Minimum. 163°

Mineral Oil.—When mineral oil alone is used for dissolving the soap, it shall be a well-refined mineral oil.

Saponifiable Matter.—When a compounded oil is used for dissolving the soap, it shall contain about 20 per cent. Saponifiable Matter.

Free Alkali.—The grease shall contain not more than 10 per cent. of free alkali.

Moisture.—The moisture present shall not be greater in quantity than one-half the dry soap content.

Corrosion.—A clean copper plate shall not be discoloured when submerged in the grease for 24 hours at room temperature.

Special Tests.—Greases submitted under this Specification will be subjected to tests to determine the following properties :—

Consistency,
Melting and Dropping Points.

Sampling and Testing.—A composite sample shall be taken from each delivery. It shall be at least one (1) lb. in weight, and shall be drawn from at least five (5) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

Method of Testing.—The sample shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Lubricating, Illuminating, and Fuel Oils, &c."

GREASE.—SPECIFICATION M.2.—*Items Nos. 42 and 43.*

Scope.—This Specification covers the grade of grease required for the lubrication of Gears, and of such parts of Motor Equipment and other Machinery as are lubricated by means of compression cups, Grade No. 4 to be used for Pantograph Collectors.

Two grades are specified, and the order shall state which grade is required and the purpose for which it is to be used.

APPENDIX "C"—continued.

GREASE, ETC.—continued.

Manufacture.—The grease shall be a well-manufactured product, composed of a calcium soap made from high-grade animal or vegetable oils, or fatty acids, and a highly-refined mineral oil.

Properties and Tests.—The grease shall be smooth and uniform, and, in other respects, shall comply with the conditions mentioned hereunder :—

	Soap Content, per cent. approximate.	Ash, per cent.	Melting Point.	
			Soft.	Drop.
			Minimum.	Minimum.
No. 3 Cup Grease	18	2.5	146°	165°
No. 4 Cup Grease	23	3.5	170°	188°

Mineral Oil.—The mineral oil used in reducing the soaps shall be a straight, well-refined mineral oil.

Consistency.—The greases shall be similar in consistency to the approved trade standards for No. 3 and No. 4 grease.

Moisture.—The grease shall be a boiled grease, and shall contain a minimum of water when finished

Corrosion.—A clean copper plate shall not be discoloured when submerged in the grease for 24 hours at room temperature.

Fillers.—The grease shall contain no fillers, such as resin, resinous oils, soapstone, wax, talc, powdered mica or graphite, sulphur, clay, asbestos, or the like.

Special Tests.—Greases submitted under this Specification will be subjected to tests to determine the Melting and Dropping Points.

Sampling and Testing.—A composite sample shall be taken from each delivery. It shall be at least one (1) lb. in weight, and shall be drawn from at least five (5) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

Method of Testing.—The sample shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Lubricating, Illuminating, and Fuel Oils, &c."

ANTI-FRICTION GREASE.—SPECIFICATION M.3.—Item No. 44.

Scope.—This Specification covers the grade of grease required for the lubrication of Rough Machinery, of Rails at Switches and Curves, and for other similar purposes.

Manufacture.—The grease shall be a well-manufactured product, composed of a calcium soap made from rosin oil, and mineral oil, or other oils.

Properties and Tests.—The grease shall be smooth and uniform, and, in other respects, shall comply with the conditions mentioned hereunder :—

Water	..	..	..	..	Maximum.
Ash	..	..	..	..	6.5 per cent.
					8.0 per cent.

Consistency.—The grease shall be of such a consistency as to be suitable for the purpose for which it is required.

Sampling and Testing.—A composite sample shall be taken from each delivery. It shall be at least one (1) lb. in weight, and shall be drawn from at least five (5) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

Method of Testing.—The sample shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Lubricating, Illuminating, and Fuel Oils, &c."

SPECIFICATION FOR Items Nos. 45 and 46.

The Grease tendered shall be suitable for the lubrication of—

Item No. 45.—Journals on locomotives provided with grease cellars.

Item No. 46.—Crank and Coupling Pins provided with High Pressure Grease Gun attachment.

It shall be of such a nature that it shall lubricate effectively at all loads and speeds, and shall be suitable for use throughout the year.

The Grease shall be a well manufactured product, and it shall be composed of a soda soap made of tallow, combined with a well refined cylinder stock from crude petroleum oil. It shall be smooth and uniform, shall not crumble under pressure, and shall be free from grit.

The soap content shall be—

Item No. 45.—Not less than 45 per cent.

Item No. 46.—Not less than 30 per cent.

APPENDIX "C"—*continued.*SPECIFICATION FOR ITEMS NOS. 45 AND 46—*continued.*

The Tenderer shall submit with his tender a sample of not less than one (1) lb., also as many as possible of the following particulars of the Grease Compound he tenders to supply:—

- (a) Soft temperature.
- (b) Drop temperature.
- (c) Consistency.
- (d) Moisture content.
- (e) Free Alkali content.
- (f) Soap content.
- (g) Oil content.
- (h) Ash content.
- (i) Grit content.

The sample will be further tested by and at the cost of the Corporation, and all deliveries of Grease under this service shall show no appreciable variation from such sample.

The Grease shall be put up in moisture proof barrels, drums or other approved containers with the net weight plainly marked on each.

SPECIFICATION FOR PETROLEUM JELLY.—*Item No. 47.*

The Petroleum Jelly shall be a purified mixture of semi-solid hydrocarbons of the very best quality obtained from petroleum, free from odour, mineral acid or alkali, fixed oils, fats, rosin, and other additions. It shall be completely soluble in Heavy Benzine.

The Petroleum Jelly shall have a melting point of not less than 100° F.

On incineration in a porcelain crucible, not more than 0.05 per cent. of mineral matter shall remain in the crucible.

The Tenderer shall indicate the specific gravity at 15.0° C./15.5° C.

APPENDIX "D."

TURPENTINE.—SPECIFICATION A5.—*Item No. 51.*

The materials shall be supplied to Tentative Australian Standards Association No. K 7—1926 T.

The material shall be tested by standard methods of sampling and testing, Tentative Australian Standards Association Nos. K 7 and 8 T., Part 2.

MINERAL TURPENTINE.—*Item No. 52-52c.*

The material shall be supplied to Tentative Australian Standards Specification No. K 8—1926 T.

The material shall be tested by standard methods of sampling and testing, Tentative Australian Standards Nos. K 7 and 8—1926 T., Part 2.

SPECIFICATION FOR METHYLATED SPIRITS.—*Item No. 53.*

The material shall be supplied to Tentative Australian Standards Specification No. K 30—1928 T.

The material shall be tested by standard methods of testing, Nos. 30 and 31—1928 T., Part 2.

Payments will be made on gallonage calculated on net weights ascertained by approved methods by the Comptroller of Stores or his representative at the place of delivery, and the specific gravity ascertained in the Victorian Railways Laboratory from samples drawn from such delivery.



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THURSDAY, DECEMBER 18.

[1930

Factories and Shops Act 1928 (No. 3677).

DETERMINATION OF THE AGRICULTURAL IMPLEMENTS BOARD.

NOTE.—This Determination on the 19th December, 1930, applied to the following parts of Victoria, namely:—The Metropolitan District as defined in the *Factories and Shops Act 1928 (No. 3677)*, and such portions of the city of Sandringham and of the shire of Braybrook as are not included within the said District; the cities of Ballarat, Bendigo, Geelong, Geelong West, and Warrnambool; the town of Newtown and Chilwell; and the boroughs of Eaglehawk and Sebastopol.

IN accordance with the provisions of the *Factories and Shops Act 1928 (No. 3677)*, the Wages Board appointed to "determine the lowest prices or rates which may be paid to any person or persons or classes of persons employed in the process, trade, or business of a maker of—

- agricultural machinery or implements;
- parts of agricultural machinery or implements; or
- bag-filling machinery, bone-crushers, butter-making machinery, chaff-cutters, corn-crushing machinery, cream separators, hay presses, horse works, iron feeding troughs, lawn mowers, machinery for treating flax or hemp, maize shellers, windmills."

has made the following Determination, namely:—

On 21st December, 1910, this Board was given power to fix rates for persons "employed in assembling or putting together any parts of machinery or implements of classes or kinds (whether the same have been made inside or outside the State) same or similar to those for which the said Board has power to fix prices or rates."

(1) That on the 19th December, 1930, the last previous Determination of this Board shall be revoked and replaced by this Determination.

(2)

Apprentices and Improvers.		Juvenile Workers.		Other Employees.	
WAGES.		Wages		Wages	
Per Week of 48 Hours.		per Week of 48 Hours.		per Week of 48 Hours.	
s. d.		s. d.		s. d.	
<i>Apprentices.</i>		14 years of age ..	19 6	Assemblers	87 6
1st year's experience ..	14 6	15 years of age ..	23 6	Attendants at paint mills ..	83 0
2nd year's experience ..	18 0	16 years of age ..	28 0	Belt cutters	86 0
3rd year's experience ..	21 6	17 years of age ..	36 0	Blacksmiths	98 0
4th year's experience ..	31 0	18 years of age ..	41 0	Blacksmiths' strikers ..	86 0
5th year's experience ..	40 6	19 years of age ..	51 0	Bulldozer men	93 6
		20 years of age ..	60 0	Carpenters	98 0
				Crane attendants	83 0
<i>Improvers.</i>				Cranes—	
1st year's experience ..	16 0			Operators of overhead travelling ..	86 0
2nd year's experience ..	19 6			Men in charge of other ..	86 0
3rd year's experience ..	26 0			Drillers	86 6
4th year's experience ..	32 6			Fitters engaged in fitting scarifiers, harrows, drag	
5th year's experience ..	42 0			harrows, disc ploughs, mould-board ploughs,	
6th year's experience ..	55 0			disc cultivators, tooth cultivators, or rollers	93 6
				Other fitters	98 0
				Grinders	90 6
				Labourers	83 0
				Machinists (iron) not otherwise provided for ..	90 6
				Machinists (wood) not otherwise provided for	93 6
				Men working wood-shaping machine or Boul's	
				carver	98 0
				Men working boring machine	86 0
				Men working mortising machines, or cross-out	
				saw	86 0
				Painters—Writers and liners	98 0
				Painters—Brush hands	86 0
				Paint mixers	86 0

Apprentices and Improvers.	Juvenile Workers.	Other Employees.	Wages per Week of 48 hours.
PROPORTION (in any factory or place)— <i>continued.</i>			<i>s. d.</i>
<i>Improvers.</i>			
One improver to the first six or fraction of six adults, receiving not less than 90s. 6d. per week of 48 hours, and thereafter one improver to every six additional such adults.		Pattern makers .. .. .	.. 101 0
		Persons dismantling implements .. .. .	.. 83 0
		Pullers-out .. .. .	.. 86 0
		Sheet iron workers .. .. .	.. 98 0
		Storeman under man in charge .. .. .	.. 83 0
		Stores, men in charge of .. .. .	.. 86 0
		Timber markers .. .. .	.. 98 0
		Timber stackers .. .. .	.. 83 0
		Timber yardsmen .. .. .	.. 86 0
		Turners .. .. .	.. 98 0
		Wheelwrights .. .. .	.. 98 0

DEFINITIONS—

Juvenile Workers—

Persons under 21 years of age (other than apprentices or improvers) employed—

- (a) Finning, pointing, heating, and outting off.
- (b) Screwing and tapping bolts in any department.
- (c) Holding up.
- (d) Striking for apprentices to blacksmithing.
- (e) Working ungeared drilling machines, drilling holes up to and inclusive of $\frac{1}{4}$ -in. diameter.

Assembler—

Any adult person employed in putting together any of the classes or kinds of machinery or implements affected by the Determination, and which have been previously fitted or so standardized as to require no fitting; but shall not include any adult person employed in cutting or shaping the material of which such machinery or implements are composed.

(3) OVERTIME.—Any employee who works in excess of 48 hours in any week shall be paid for such work at the rate of time and a half.

(4) SPECIAL RATES.—Time and three-quarters shall be paid for all work done on Sundays, New Year's Day, 26th January (Foundation Day), Eight Hours Day (21st April), Good Friday, Easter Saturday, Easter Monday, Christmas Day, and Boxing Day; but if any other day be by Act of Parliament or Proclamation substituted for any of the above-named holidays, the special rate shall be payable only for work done on the day so substituted.

(5) PIECE-WORK.—The Board determines under the provisions of Section 150 of the *Factories and Shops Act 1928* that any employer may fix and pay piece-work prices to any person employed at any work for which the Board has fixed a minimum wage, provided that any such employer shall base such piece-work prices on the earnings of an average worker working under like conditions; and such piece-work prices shall be fixed so that an average worker can earn not less than the wages rates that are fixed by the Board for such work.

Melbourne, 4th December, 1930.

J. K. McCASKILL, J.P., Chairman.

REX L. CECIL, Acting Secretary.