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VICTORIA GOVERNMENT GAZETTE.

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No. 26]

MONDAY, FEBRUARY 29.

[1932

No.	Number of Tenders.	Particulars of Contract.	Country of Manufacture or Production.	Amount.	Name of Contractor.
619	..	Railways Stores Suspense Account, Act 3759, Section 105— General Stores, as ordered from 1st October, 1931, to 30th September, 1932	As per annex ..	Rates as per annex	As per annex

Melbourne, 26th February, 1932.

Schedule of Rates Contracts

(BOOKS NOS. 1 AND 2)

FOR THE

SUPPLY OF STORES

TO THE

VICTORIAN RAILWAYS,

Period 1.10.1931 to 30.9.1932.

E. C. EYERS,

By order of The Victorian Railways Commissioners.

SUPPLY AND DELIVERY OF STORES.

As ordered, from 1st October, 1931, to 30th September, 1932.

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.

All rates are exclusive of Sales Tax.

Items 6050 to 6077 will be found at the end of this Schedule.

MINERAL LUBRICATING OILS.

(See Appendix "A" for Specification.)

The different classes of oil required shall be supplied in casks branded "Super. Cyl. Oil," "Sat. Cyl. 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.

* These rates are exclusive of Exchange between London and Australia and are plus ruling rate of T.T. Exchange on date of delivery on the following percentages of the respective contract rates:—

Item 1	On 80 per cent. of 75.5 per cent. of contract rate
Items 1A and 2	On 80 per cent. of 95 per cent. of contract rates
Item 3	On 80 per cent. of 40 per cent. of contract rate 20 per cent. U.S.A., 20 per cent. Japan
Item 4	On 80 per cent. of 85.3 per cent. of contract rate
Items 4A, 5, 5A, 5B, 5C, 6, 6A, 6B	On 80 per cent. of contract rates.

Further, the rates are based on New York-London conversion as under:—

Item 1, 1A, 2, 3, 4, 4A, 5, 5A, 5B, 5C, 6A, 6B, 4.86½ dollars to £1, and as regards Item 6, on 4.80 dollars to £1, and any variation shall be to the Corporation's account. The adjustments shall apply to 80 per cent. of the imported portions of the respective items as shown above and shall be made on the Conversion rate notified by the Commonwealth Bank of Australia as ruling in London on the date of delivery to the Corporation of any such stores as may be ordered under the Contract, and to the amount involved in such adjustments shall be added the ruling rate of T.T. Exchange between London and Australia on the date aforementioned.

As regards Item 3, the rate is also based on Japan-London Conversion at 9.764 yens to £1 sterling, and any variation shall be the Corporation's account. Adjustment to be made as set out above.

As regards Items 1, 4, and 5 Vacuum Oil Co. should receive 90 per cent. and Atlantic Union Oil Co. 10 per cent. of the respective requirements, and in connexion with item 6 Socony Pty. Ltd. should receive 90 per cent. and Atlantic Union Co. 10 per cent. of the estimated requirements. The estimated requirements have been amended accordingly.

As regards items 5A, 5c, 6, and 6B delivery ex wharf—arrangements should also be made if possible for wharfage to be saved by allowing time for importation.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
MINERAL LUBRICATING OILS.								
†1	Locomotive Cylinder Oil, Specification L.1, Superheater Steam, "C.796," in steel drums with bilge bungs	U.S.A. and Vict.	18,540 gall.	gallon	*0	2	0½	Vacuum Oil Co. Pty. Ltd.
†1A	Locomotive Cylinder Oil, Specification L.1, Superheater Steam, "A.U.," in black iron drums	"	2,060 "	do.	*0	1	10	Atlantic Union Oil Co. Ltd.
†2	Locomotive Cylinder Oil, Specification L.1, Saturated Steam, "A.U.," in black iron drums	"	14,250 "	do.	*0	1	10	
†3	Locomotive Bearing Oil, Specification L.2, Summer, "Shell" in steel drums	U.S.A., Japan, and Vict.	22,000 "	do.	*0	1	11	Shell Co. of Aust. Ltd.
†4	Locomotive Bearing Oil, Specification L.2, Winter, "Loco J," in steel drums with head bungs	U.S.A. and Vict.	16,650 "	do.	*0	1	10½	Vacuum Oil Co. Pty. Ltd.
†4A	Locomotive Bearing Oil, Specification L.2, Winter, "B.C.," in black iron drums	U.S.A. and N.S.W.	1,850 "	do.	*0	1	9½	Atlantic Union Oil Co. Ltd.
†5	Car and Wagon Axle Oil (Black Oil), Specification L.3, "B.817," ex store in steel drums with head bungs	U.S.A.	16,650 "	do.	*0	1	3¾	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	2¾	
†5B	Car and Wagon Axle Oil (Black Oil), Specification L.3, "L.L.," ex store in black iron drums	"		do.	*0	1	3	
†5C	Car and Wagon Axle Oil (Black Oil), Specification L.3, "L.L.," ex wharf in black iron drums	"	1,850 "	do.	*0	1	2½	Atlantic Union Oil Co. Ltd.
†6	Car Oil (Red Oil), Specification L.3A, "L.9," ex wharf in drums	"	54,000 "	do.	*0	1	4¾	Socony Pty. Ltd.
†6A	Car Oil (Red Oil), Specification L.3A, "A," ex store, in black iron drums	"	6,000 "	do.	*0	1	5	Atlantic Union Oil Co. Ltd.
†6B	Car Oil (Red Oil), Specification L.3A, "A," ex wharf, in black iron drums	"		do.	*0	1	4½	
7-10	Nil							

OILS (VARIOUS).

(See Appendix "B" for Specification.)

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.

* These rates are exclusive of Exchange between London and Australia, and are plus ruling rates of T.T. Exchange on date of delivery on the following percentages of the respective contract rates:—

Items Nos. 14, 14A, 14B, 15, 15A, 15B, 16, 16A, 16B, 17, 17A, 17AA, 17D, 17E, 17F, 17G, 17H, 17HA, 17HB, 17HC, 17HD, 17I, 17IA, 17IB, 17IC, 17ID, 17J, 17JA, 17K, 17KA, 19-20, 22, 24, 25-27, 32	On 80% of contract rates.
Items Nos. 17B, 17GA	On 80% of 81% of contract rate.
Item No. 17FA	On 80% of 88.8% of contract rate.
Item No. 18	On 80% of 74% of contract rate.
Item No. 31	On 80% of 70.3% of contract rate.

Further, certain rates are based on New York-London Conversion as under:—

Items Nos. 14, 14B, 15, 15B, 16, 16B, 17, 17AA, 17B, 17D-17FA, 17G, 17GA, 17H-17KA, 18, 19, 20, 22, 25B-25C, 26-27, 31 at 4.86½ dollars to £1, Items 17HC, 17HD, 17IC and 17ID at 4.85 dollars to £1; and Items Nos. 24 and 25A at 4.80 dollars to £1, any variation shall be to the Corporation's account. The adjustments shall apply to 80% of the imported portions of the respective items as shown above, and shall be made on the Conversion rate notified by the Commonwealth Bank of Australia as ruling in London on the date of delivery to the Corporation of any such stores as may be ordered under the contract, and to the amount involved in such adjustments shall be added the ruling rate of T.T. Exchange between London and Australia on the date aforementioned.

As regards Item No. 32, the rate is based on Japan-London Conversion at 9.764 yens to £1, and any variation shall be to the Corporation's account. Adjustments to be made as set out above.

More than one tender has been accepted for each of the following items, and, provided satisfactory service is rendered, the business should be allotted as follows:—

Items Nos. 14-17	C. C. Wakefield & Co.	45%
	Noyes Bros.	45%
	Atlantic Union Co.	10%
Item No. 17F	Shell Co. of Aust.	80%
	Vacuum Oil Co.	20%
Item No. 17G	Shell Coy. of Aust.	90%
	Vacuum Oil Co.	10%
Items Nos. 17J and K	C. C. Wakefield & Co.	90%
	Shell Co. of Aust.	10%
	J. Carrigan	45%
Items Nos. 25A, B and C	Vacuum Oil Co.— "DTE" Light	10%
	"DTE" Heavy Medium (for State Rivers and Water Supply Department)	45%
Items Nos. 26 and 26A	Texas Co. of Aust.	90%
	Shell Co. of Aust.	10%

As regards Items Nos. 17H to 17ID, the Oil is for the use of the State Rivers and Water Supply Commission. The tenders of Atlantic Oil Co., Vacuum Oil Co., J. D. Harmsworth & Co. Pty. Ltd., and C. C. Wakefield & Co. have been accepted, and it is assumed orders will be placed according to the results obtained.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
†11	MOTOR, ENGINE AND MACHINERY OILS. Specification L.4; Grade—Extra Light—Oil, for Refrigerating Machines, in 4-gallon tins, "C"	U.S.A.	140 gals.	gallon	..	Nil	
12	} Nil.						
13							
†14		Specification L.4; Grade—Medium—Oil, Cylinder, for Water-cooled Petrol Engines, in 4-gallon tins, "Castrol C.W."	U.K. and U.S.A.	} 4,800 "	do.	*0 2 11½	C. C. Wakefield & Co. Ltd.
†14A	Specification L.4; Grade—Medium—Oil, Cylinder, for Water-cooled Petrol Engines, in 4-gallon tins, "Germ Motoil M."	U.K. (partly)	do.		*0 3 6	Noyes Bros. (Melb.) Pty. Ltd.	
†14B	Specification L.4; Grade—Medium—Oil, Cylinder, for Water-cooled Petrol Engines, in 4-gallon tins, "M.M.1206"	U.S.A.	do.		*0 2 4	Atlantic Union Oil Co. Ltd.	
†15	Specification L.4; Grade—Medium—Oil, Cylinder, for Water-cooled Petrol Engines, in 40-gallon drums, "Castrol C.W."	U.K. and U.S.A.	} 7,000 "		do.	*0 2 8½	C. C. Wakefield & Co. Ltd.
†15A	Specification L.4; Grade—Medium—Oil, Cylinder, for Water-cooled Petrol Engines, in 40-gallon drums, "Germ Motoil M."	U.K. (partly)			do.	*0 3 1½	Noyes Bros. (Melb.) Pty. Ltd.
†15B	Specification L.4; Grade—Medium—Oil, Cylinder for Water-cooled Petrol Engines, in 40-gallon drums, "M.M.1206"	U.S.A.		do.	*0 2 1	Atlantic Union Oil Co. Ltd.	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
OILS (VARIOUS)—continued.						
†16	Motor, Engine and Machinery Oils— <i>contd.</i> Specification L.4; Grade — Heavy — Oil, Cylinder, for Water-cooled Petrol Engines, in 4-gallon tins, "Castrol G.P."	U.K. and U.S.A.	} 8,000 gals.	gallon	*0 3 6	C. C. Wakefield & Co. Ltd.
†16A	Specification L.4; Grade — Heavy — Oil, Cylinder, for Water-cooled Petrol Engines, in 4-gallon tins, "Germ Motoil X.H."	U.K. (partly)		do.	*0 4 1	Noyes Bros. (Melb.) Pty. Ltd.
†16B	Specification L.4; Grade — Heavy — Oil, Cylinder, for Water-cooled Petrol Engines, in 4-gallon tins, "M.M.1175"	U.S.A.		do.	*0 2 8	Atlantic Union Oil Co. Ltd.
†17	Specification L.4; Grade — Heavy — Oil, Cylinder, for Water-cooled Petrol Engines, and Rail Motors, in 40-gallon drums, "Castrol G.P."	U.K. and U.S.A.	} 1,000 "	do.	*0 3 3	C. C. Wakefield & Co. Ltd.
†17A	Specification L.4; Grade — Heavy — Oil, Cylinder, for Water-cooled Petrol Engines and Rail Motors, in 40-gallon drums, "Germ Motoil X.H."	U.K. (partly)		do.	*0 3 8½	Noyes Bros. (Melb.) Pty. Ltd.
17AA	Specification L.4; Grade — Heavy — Oil, Cylinder, for Water-cooled Petrol Engines and Rail Motors, in 40-gallon drums, "M.M.1175"	U.S.A.		do.	*0 2 5	Atlantic Union Oil Co. Ltd.
†17B	Oil, Cylinder, for Junker Diesel Engines, in 4-gallon tins, "Gargoyle Vactra Extra Heavy X."	Vict. (partly)	50 "	do.	*0 2 9	Vacuum Oil Co. Pty. Ltd.
†17C	Oil, Cylinder, for Airless Injection Cold Starting Oil Engines, in 4-gallon tins	..	50 "	do.	..	Nil
†17D	Oil, Cylinder, for Air-cooled Petrol Engines, in 4-gallon tins, "Gargoyle Mobiloil B."	U.S.A.	1,500 "	do.	*0 3 9	} Vacuum Oil Co. Pty. Ltd.
†17E	Oil, Cylinder, for two-cycle Water-cooled Petrol Engines, in 4-gallon tins, "Gargoyle Mobiloil T.T."	..	2,800 "	do.	*0 3 9	
†17F	Oil, for the lubrication in enclosed crank cases of Leyland and Yorkshire Steam Wagons, in 4-gallon tins, "Shell B. 9B Apex Heavy"	..		do.	*0 3 9		Shell Co. of Aust. Ltd.
†17FA	Oil, for the lubrication in enclosed crank cases of Leyland and Yorkshire Steam Wagons, in 4-gallon tins, "Gargoyle Vaxel D.D."	Vict. (partly)	250 "	do.	*0 2 4	Vacuum Oil Co. Pty. Ltd.
†17G	Oil, Cylinder, for lubrication of engines of McDonald Super-Diesel Road Rollers, in 4-gallon tins, "Shell D.4"	U.S.A.	} 820 "	do.	*0 3 9	Shell Co. of Aust. Ltd.
†17GA	Oil, Cylinder, for lubrication of engines of McDonald Super-Diesel Road Rollers, in 4-gallon tins, "Gargoyle Vactra Extra Heavy X."	Vict. (partly)		do.	*0 2 9	Vacuum Oil Co. Pty. Ltd.
†17H	Oil, Cylinder, for lubrication of two-cycle and four-cycle Diesel Engines, 60 to 200 H.P., in 4-gallon tins, "Atla Special Heavy"	U.S.A. (partly)		do.	*0 2 9	Atlantic Union Oil Co. Ltd.
†17HA	Oil, Cylinder, for lubrication of two-cycle and four-cycle Diesel Engines, 60 to 200 H.P., in 4-gallon tins, "Gargoyle D.T.E. Extra Heavy"	U.S.A.	} 700 "	do.	*0 3 9	Vacuum Oil Co. Pty. Ltd.
†17HB	Oil, Cylinder, for lubrication of two-cycle and four-cycle Diesel Engines, 60 to 200 H.P., in 4-gallon tins, "Deusol O. Heavy"	U.K. and U.S.A.		do.	*0 3 6	C. C. Wakefield & Co. Ltd.
†17HC	Oil, Cylinder, for lubrication of two-cycle and four-cycle Diesel engines, 60 to 200 H.P., in 4-gallon tins, "Aster M."	U.S.A.		do.	*0 3 3½	} J. D. Harmsworth & Co. Pty. Ltd.
†17HD	Oil, Cylinder, for lubrication of two-cycle and four-cycle Diesel engines, 60 to 200 H.P., in 4-gallon tins, "Aster B.B."	..	do.	*0 3 6½		
†17I	Oil, Cylinder, for lubrication of two-cycle and four-cycle Diesel Engines, 60 to 200 H.P., in 40-gallon drums, "Atla Special Heavy"	U.S.A. (partly)	700 "	do.	*0 2 7	Atlantic Union Oil Co. Ltd.
17IA	Oil, Cylinder, for lubrication of two-cycle and four-cycle Diesel Engines, 60 to 200 H.P., in 40-gallon drums, "Gargoyle D.T.E. Extra Heavy"	U.S.A.		do.	*0 3 6	Vacuum Oil Co. Pty. Ltd.
†17IB	Oil, Cylinder, for lubrication of two-cycle and four-cycle Diesel Engines, 60 to 200 H.P., in 40-gallon drums, "Deusol O. Heavy"	U.K. and U.S.A.		do.	*0 3 3	C. C. Wakefield & Co. Ltd.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
OILS (VARIOUS)— <i>continued.</i>						
Motor, Engine and Machinery Oils— <i>contd.</i>						
†17IC	Oil, Cylinder, for lubrication of two-cycle and four-cycle Diesel engines, 60 to 200 H.P., in 40-gallon drums, "Aster M."	U.S.A.	750 gals.	gallon	*0 3 0½	J. D. Harmsworth & Co. Pty. Ltd.
†17ID	Oil, Cylinder, for lubrication of two-cycle and four-cycle Diesel engines, 60 to 200 H.P., in 40-gallon drums, "Aster B.B."	"		do.	*0 3 3½	
†17J	Oil, Cylinder, for lubrication of Daimler Motor Cars, in 40-gallon drums, "Castrol X.L."	"		do.	*0 4 4	C. C. Wakefield & Co. Ltd.
†17JA	Oil, Cylinder, for lubrication of Daimler Motor Cars, in 40-gallon drums, "Triple Shell"	U.S.A.		do.	*0 3 9	Shell Co. of Aust. Ltd.
†17K	Oil, Cylinder, for lubrication of Coventry Eagle Motor Cycles, in 40-gallon drums, "Castrol X.X.L."	U.K. and U.S.A.	850 "	do.	*0 4 4	C. C. Wakefield & Co. Ltd.
17KA	Oil, Cylinder, for lubrication of Coventry Eagle Motor Cycles, in 40-gallon drums, "Golden Shell"	U.S.A.		do.	*0 3 9	Shell Co. of Aust. Ltd.
†18	Specification L.4A; Grade—Medium—Oil, Cylinder, for Kerosene Engines, in 4 gallon tins, "Gargoyle Vactra Heavy X."	Vict. (partly)	450 "	do.	*0 2 8	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.	40 "	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 "Aleph"	"	520 "	do.	*0 1 7	
†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	"	3,500 "	..	..	Red Oil under 6 to be supplied
†22	Specification L.5; Grade—Heavy—Oil, Bearing, for Large Machine Tools, in 40-gallon barrels or drums "P.982"	"	1,000 "	gallon	*0 1 9½	Vacuum Oil Co. Pty. Ltd.
†23	Specification L.5; Grade—Extra Heavy—Oil, Bearing, for Stone Crushers, Tractors, and similar Machinery, in 40-gallon drums "XL Machine Oil—E.H."	Vict.	1,900 "	do.	0 1 3½	Ramsay & Treganowan Ltd.
†24	Specification L.5; Grade—Extra Heavy Special—Oil, Bearing, for Rail and Road Motor Transmission Gear, in 40-gallon barrels or drums "S. D. Gear"	U.S.A.	650 "	do.	*0 1 7¾	Socony Pty. Ltd.
†25	Specification L.6; Grade—Medium—Oils, for Turbines, in 4-gallon tins ..	U.S.A.	800 "	gallon	*0 5 6	Nil.
†25A	Oils, for Turbines, in barrels "Valvoline" Medium					J. Carrigan
†25B	Oil, for Turbines, in barrels "DTE" Light	"	5,000 "	do.	*0 3 1	Vacuum Oil Co. Pty. Ltd.
†25C	Oil, for Turbines in barrels "DTE" Heavy Medium						do.	*0 3 1
†26	Oil, for Air Compressors, in 4-gallon tins "Algol"	U.S.A.	800 "	do.	*0 3 7	Texas Co. (Aust.) Ltd.
†26A	Oil for Air Compressors, in 4-gallon tins "Shell G 917"	"		do.	*0 2 2½	Shell Co. of Aust. Ltd.
†26AA	Oil, for Air Compressors, in 40-gal. drums "Algol"	"	2,400 "	do.	*0 3 4	Texas Co. (Aust.) Ltd.
†26AB	Oil, for Air Compressors, in 40-gal. drums "Shell G. 917"			do.	*0 1 11½	Shell Co. of Aust. Ltd.
†27	Specification L.7; Grade—Light—Oil, for Transformers and Switch Gear, in 4-gallon tins "Gargoyle Transformer A"	...	500 "	do.	*0 2 9	Vacuum Oil Co. Pty. Ltd.
†28	Specification L.8; Castor Oil, in 5-gallon drums	Vict.	840 "	do.	0 6 1	Lycett Pty. Ltd.
†28A	Specification L.8; Castor Oil, in 45-gallon drums			do.	0 5 9	

OILS (VARIOUS)—*continued.*

Item No.	Description.	Country of Manufacture.	Estimated Requirements,	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
†29	Motor, Engine and Machinery Oils— <i>contd.</i> Neatsfoot Oil, Pure, in 40-gallon barrels or drums	Vict.	80 gals.	gallon	0	3	9	Shell Co. of Aust. Ltd.
†30	Neatsfoot Oil Compound, in 40-gallon barrels or drums "XL"	"	100 "	do.	0	1	11	Ramsay & Treganowan Ltd.
†31	Soluble Cutting Compound, in 40-gallon barrels or drums "Soluble P"	Vict. (partly)	1,360 "	do.	*0	2	6	Vacuum Oil Co. Pty. Ltd.
†32	Fish Oil, for tempering springs, in 40-gallon barrels or drums "Unacal Tempering Oil"	Japan	520 "	do.	*0	2	3	Atlantic Union Oil Co. Ltd.
†33	Oil, Lardine, in 4-gallon tins "XL"	Vict.	40 "	do.	0	2	7	Ramsay & Treganowan Ltd.
†34	Oil, Lard, in 4-gallon tins "No. 124"	"	28 "	do.	0	5	9	Vacuum Oil Co. Pty. Ltd.
35-40	Nil.							

GREASES.

See Appendix "C" for Specification.

* These rates are exclusive of Exchange between London and Australia, and are plus ruling rate of T.T. Exchange on date of delivery on the following percentages of the respective contract rates:—

Item No. 41	On 80% of 74% of contract rate.
Items Nos. 41A, 42, 42A, 43, 45A, 45B, 46A, 50	On 80% of contract rates.
Item No. 42B	On 75% of contract rate.
Items Nos. 45 and 46	On 80% of 50% of contract rates.
Items Nos. 48 and 49	On 80% of 52% of contract rate.

Further, the above rates, with the exception of Item No. 42B, are based on New York-London Conversion of 4.86½ dollars to £1. Item No. 42B is based on 4.80 dollars to £1, and any variation shall be to the Corporation's account. The adjustments shall apply to 30%, or 75% as shown, of the imported portions of the respective items as shown above, and shall be made on the Conversion rate notified by the Commonwealth Bank of Australia as ruling in London on the date of delivery to the Corporation of any such stores as may be ordered under the Contract, and to the amount involved in such adjustments shall be added the ruling rate of T.T. Exchange between London and Australia on the date aforementioned.

As regards Item No. 42, Vacuum Oil Co. should receive 90% and H. S. Sleigh 10% of the Department's requirements; and, as regards Item No. 46, Shell Co. should receive 75% and Texas Co. 25% of requirements.

As regards Item No. 45, a trial order should be placed with Atlantic Union Oil Co. to enable practical experience to be gained. Storekeeper, Newport Loco., to arrange with Superintendent Loco. Supplies.

Item No.	Description.	Country of Manufacture.	Estimated Requirements,	Rate per—	Rate.	Name of Contractor.
†41	Grease, for Gears, Conveyors, Compression Cups, in barrels— Specification M.1, "Voco Dark Gear Grease"	Vict. (partly)	125 cwt.	cwt.	*0 19 6	Vacuum Oil Co. Pty. Ltd.
†41A	Grease, Cup, Specification M.2— No. 2, "Voco Cup," in barrels	U.S.A.	5 "	do.	*1 10 9	
†42	No. 3, in 5-lb. tins, "Voco Cup"	"	32 "	do.	*2 0 6	H. C. Sleigh
†42B	No. 3, in 5-lb. tins, "Summit"	"	5 "	do.	*1 14 6	
†42A	No. 5, in 5-lb. tins	"	5 "	do.	*2 16 0	Shell Co. of Aust. Ltd.
†43	Grease, Pantograph Collector, No. 4, Specification M.2, in barrels, "Voco Cup"	"	60 "	do.	*1 13 9	Vacuum Oil Co. Pty. Ltd.
†44	Grease, Antifriction, for Lubrication of Rough Machinery, Rails, Switches, Curves, and other purposes, Specification M.3, "X.L. Dark"	Vict.	60 "	do.	0 14 8	Ramsay & Treganowan Ltd.
†45	Grease, compound, for Locomotive Journals, to Specification	Vict. (partly)	500 lb.	lb.	*0 0 7	Shell Co. of Aust. Ltd.
†45A	Grease, compound, for Locomotive Journals, to Specification, in 100-lb. cans	U.S.A.		do.	*0 0 8	Texas Co. (Aust.) Ltd.
†45B	Grease, compound, for Locomotive Journals, to Specification, in barrels	"	do.	*0 0 5	Atlantic Union Oil Co. Ltd.	
†46	Grease, compound, for Locomotive Crank and Coupling Rod Pins, in barrels	Vict. (partly)	2,500 "	do.	*0 0 7	Shell Co. of Aust. Ltd.
†46A	Grease, compound, for Locomotive Crank and Coupling Rod Pins, in barrels	U.S.A.		do.	*0 0 8	Texas Co. (Aust.) Ltd.
†47	Compound, Lubricating, for the lubrication of open gears on Niles-Bement-Pond Wheel Lathe	"	56 "	"	"	Nil
†48	Compound, Lubricating, Voco, for use at the State Coal Mine, in barrels, "Favorite" Axle Grease	Vict. (partly)	30 cwt.	cwt.	*1 6 0	Vacuum Oil Co. Pty. Ltd.
†49	Compound, Greater, Lubricating, for use at the State Coal Mine, in 36-lb. tins, "Voco Dark Gear"	"	1 "	do.	*1 1 10	
†50	Petroleum Jelly, in barrels of approximately 5 cwt., for tarpaulin dressing, to Specification	U.S.A.	8,000 lb.	lb.	*0 0 1½	Shell Co. of Aust. Ltd.

TURPENTINE, TURPENTINE SUBSTITUTES, AND METHYLATED SPIRITS.

(Specifications.—Section. "A").

Turpentine.—Specification A5—Item No. 51.

The materials shall be supplied to Tentative Australian Standard Specification, No. K7—1926 T. The material shall be tested by standard methods of sampling and testing Tentative Australian Standard Specification, Nos. K7 and 8 T., Part 2.

Mineral Turpentine.—Items Nos. 52—52c.

The material shall be supplied to Tentative Australian Standard Specification No. K8—1926 T. The material shall be tested by Standard methods of sampling and testing Tentative Australian Standards Nos. K7 and 8—1926 T., Part 2.

Specification for Methylated Spirits.—Items Nos. 53 and 54.

The material shall be supplied to Tentative Australian Standard Specification No. K30—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.

As regards Items 52—52c (Shell Co.), the Contract is based on the wholesale selling rates ruling on 22nd September, 1931, and the rates are subject to fluctuations on all deliveries made on and after the date such fluctuations became operative.

As regard Item 52c, the minimum bulk delivery shall be 40 gallons. A charge of 30s. will be made for 40-gallon drums and 40s. for 65-gallon drums, which amounts shall be refunded to the Corporation if returned in good order and condition.

As regards Item 54, a charge of 5s. will be made for the cylinders, which amount shall be refunded to the Corporation if returned in good order and condition.

* These rates are plus ruling rates of T.T. Exchange on date of delivery on 80 per cent.

** In addition to adjustment for T.T. Exchange on 80 per cent. The rate is based on New York-London conversion of 4.80 dollars to the £ sterling; any variation shall be to the Corporation's account. The adjustment shall apply to 2/7 per gallon, and shall be calculated on the conversion rate intimated by the Commonwealth Bank of Australia as ruling in London on the date of delivery to the Corporation of any such stores as may be ordered under the contract (plus the ruling rate of T.T. Exchange between London and Australia on such date.)

Name of Manufacturer. Items 53 and 54.—Bundaberg Distillery Co.

The rates under Items 52, 52A, 52B, and 52c are contingent on this Department furnishing a statutory declaration to the effect that the material has been used for any of the following purposes, viz.:—Manufacture of Insecticides, Paints, Polishes, Varnishes, Ink, or for use in Dry Cleaning or use by Tanners or in Steam Laundries.

In the event of the Department not being in a position to furnish the statutory declaration the rates shall be increased by 4s. per case for Item 52, 2s. per tin for Item 52A, and 6d. per gallon for Items 52B and 52c.

All requisitions and orders should state the purpose for which this class of material is required and a copy furnished to the Shipping Clerk, who will arrange *re* declaration.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
†51	Turpentine, to Specification A.5, in 4-gallon tins, "Pratts"	U.S.A.	2,400 gall.	gallon	£ 0 2 9½	Brooks, Robinson, & Co. Ltd.
	Turpentine, Substitute, volatile mineral spirit, paint thinners, Specification A.6—					
52	In cases, 2 x 4-gallon tins, "Shell" ..	E. Indies	2,500 "	case	*†0 15 4	Shell Co. of Aust. Ltd.
†52A	In naked 4-gallon tins, "Shell" ..	"		tin	*†0 7 4	
52B	In bulk, in departmental owned drums, "Shell"	"		gallon	*†0 1 8	
52c	In bulk, in company owned drums, "Shell"	"		do.	*†0 1 9	
†53	Spirits, Methylated, in 4-gallon tins ..	Q'land	850 "	do.	0 2 10	E. L. Yencken & Co. Pty. Ltd.
54	Spirits, Methylated, in 40-gallon cylinders ..	"	1,600 "	do.	0 2 6½	
55 to 56	Nil					

† Less 5 per cent. discount for payment 30 days.

INDIA-RUBBER GOODS, PACKING, ETC.

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.

INDIARUBBER GOODS, PACKING, ETC.—continued.

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

Item No.	Inside Diameter.		Outside Diameter.		Length.	Ply.	Bursting Pressure.
	Max.	Min.	Max.	Min.			
67	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{15}{16}$	$\frac{7}{8}$	60 feet	5	lb. 800
69	$\frac{1}{2}$	$\frac{15}{32}$	$\frac{15}{16}$	$\frac{7}{8}$	As ordered	3	400
70	$\frac{3}{4}$	$\frac{23}{32}$	$\frac{13}{16}$	$\frac{11}{8}$	"	3	300
71	1	$\frac{15}{16}$	$\frac{17}{16}$	$\frac{13}{8}$	"	3	300
72	$1\frac{1}{2}$	$\frac{19}{16}$	$\frac{21}{16}$	2	"	3	500
74	$\frac{3}{4}$	$\frac{23}{32}$	$\frac{15}{16}$	$\frac{11}{8}$	"	4	756
75	2	$\frac{15}{16}$	$\frac{29}{16}$	$\frac{21}{8}$	"	4	375
76	$2\frac{1}{2}$	$\frac{27}{16}$	$\frac{31}{16}$	3	"	4	300
77	2	$\frac{15}{16}$	$\frac{29}{16}$	$\frac{21}{8}$	"	4	375
79	2	$\frac{15}{16}$	$\frac{29}{16}$	$\frac{21}{8}$	40 feet	4	375
80	$\frac{1}{2}$	$\frac{15}{32}$	$\frac{11}{8}$	$\frac{11}{16}$	As ordered	5	1,288

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.

* As regards Items 62, 63, 65, 120, 121, 126, 126A, 130-135, and 144, the Contract rates are plus ruling rate of T.T. Exchange on date of delivery on 80 per cent.

As regards the Contracts with Dunlop-Perdriau Rubber Co. and Barnet Glass Rubber Co., excepting Items 141-142A, they are conditional on these Contractors reducing the rates to the satisfaction of the Comptroller of Stores in the event of there being any reduction beyond 10 per cent. in the ruling rate of T.T. Exchange between London and Australia of 30½ per cent. during the Contract period, such reduced rates to be applicable to any material ordered two months after the date of the reduction in the rate of Exchange.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
57	Balls, I.R., 3" diameter .. .. .	..	Nil	..	£ s. d.	Nil
†58	Boots, Thigh, sizes 8, 9, or 10, as ordered ..	Vict.	24 pairs	pair	1 0 8	Dunlop Perdriau Rubber Co. Ltd.
*59	Buffers, Tangye Pump, 5¼" x 1½" diameter x 1" hole	..	Nil	..	..	Nil
†60	Bumpers, ¾"	..	Nil	..	..	Nil
†61	" M.M.B.W.	Vict.	2 doz.	dozen	0 0 6½	Barnet Glass Rubber Co. Ltd.
*62	Gaskets, for 3" "B. & W." Headers, oval, "Bell's"	U.K.	19,000	100	*0 11 3	Bell's Asbestos Aust. Agency Ltd.
*63	" for 4" "B. & W." header joints, oval "Bell's"	"	7,000	100	*0 13 5	Bell's Asbestos Aust. Agency Ltd.
*64	" manhole, inside 14" x 11", outside 16½" x 13½"	..	Nil	..	..	Nil
*65	" square, for superheaters, Babcock and Wilcox boilers, Graphited "Bell's"	U.K.	1,200	100	*0 11 3	Bell's Asbestos Aust. Agency Ltd.
†66	Gloves, sizes 6, 7, 8, 9, or 10, as ordered ..	Vict.	24 pairs	pair	0 6 6	..
†67	Hose, India-rubber, vulcanized— 5-ply, ¾" diameter, in 60' lengths, for steam or air, as ordered	"	48 lengths	length	2 2 3	..
†68	3-ply, ¾" diameter, Armoured	"	450 feet	foot	0 0 8	Dunlop Perdriau Rubber Co. Ltd.
†69	" ¾" diameter, ordinary quality	"	760 "	do.	0 0 5½	..
†70	" ¾" " " " "	"	4,800 "	do.	0 0 6¼	..
†71	" 1" " " " "	"	540 "	do.	0 0 8¼	..
†72	" 1½" " " " "	"	Nil	..	..	..
†73	4-ply, ¾" diameter, chemical .. .. .	..	Nil	..	..	Nil

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
INDIA-RUBBER GOODS, PACKING, ETC.— <i>continued.</i>						
	Hose, India-rubber, vulcanized— <i>continued.</i>					
†74	4-ply, 2" diameter, special quality ..	Vict. (partly)	120 feet	foot	0 0 9½	Dunlop Perdriau Rubber Co. Ltd.
†75	" 2" diameter	"	60 "	do.	0 1 11	
†76	" 2½"	"	Nil	"	"	Nil
†77	" 2" diameter, Armoured outside ..	Vict. (partly)	2,500 feet	foot	0 2 2½	Dunlop Perdriau Rubber Co. Ltd.
†78	" 2" diameter, Armoured inside, rough bore	"	300 "	do.	0 2 6	
†79	" 2", special quality, in 40' lengths ..	"	Nil	"	"	Nil
†80	5-ply, ½" diameter	"	Nil	"	"	
†81	" ¾"	"	Nil	"	"	
†82	" 1½" diameter, for steam ..	Vict. (partly)	50 feet	foot	0 1 7½	Dunlop Perdriau Rubber Co. Ltd.
†83	6-ply, ¾" diameter, Armoured outside ..	"	1,300 "	do.	0 1 1	
†84	" 1"	"	300 "	do.	0 0 11	Dunlop Perdriau Rubber Co. Ltd.
†85	India-rubber, Sheet, Vulcanized— With canvas insertion, any sizes and thicknesses ordered	N.S.W. (partly)	2,500 lb.	lb.	0 0 10½	
†86	With fibrous insertion, any sizes and thicknesses ordered	Vict. (partly)		do.	0 0 11	Barnet Glass Rubber Co. Ltd.
India-rubber, Sheet, Brown—						
†87	½"	"	300 "	do.	0 2 0	Dunlop Perdriau Rubber Co. Ltd.
	1"	"	100 "	do.	0 1 9½	
	1"	"	10 "	do.	0 1 8	
India-rubber, Sheet, Brown, backed — ½" thick—						
90	22½" wide	Nil	"	"	"	Nil
91	26½" wide	Vict. (partly)	75 lin. yds.	lin. yd.	0 11 8	Dunlop Perdriau Rubber Co. Ltd.
92	27½" wide	"	25 "	do.	0 12 3	
93	30" wide	Nil	"	"	"	Nil
94	36" wide	Vict. (partly)	25 lin. yds.	lin. yd.	0 13 8	Dunlop Perdriau Rubber Co. Ltd.
95	48" wide	"	50 "	do.	0 18 4	
96	72" wide	"	50 "	do.	1 7 4	
Mallets, I.R., hard grade, handled—						
97	3½" diameter x 5½" long	Nil	"	"	"	Nil
98	2½" diameter x 4½" long	"	"	"	"	Nil
†99	Rollers, Feed, for Edison Mimeograph ..	Vict. (partly)	150	each	0 0 4½	Barnet Glass Rubber Co. Ltd.
†100	Solution, I.R., in kerosene tins	"	320 lb.	lb.	0 0 8½	Dunlop Perdriau Rubber Co. Ltd.
†100A	Tape, I.R., ½"	"	28 lb.	do.	0 8 5	
†101	Tips, Finger, pinnacle type	"	300 doz.	dozen	0 0 6½	Barnet Glass Rubber Co. Ltd.
102	Tubing, ¾" diameter	"	36 feet	foot	0 0 2½	Dunlop Perdriau Rubber Co. Ltd.
103	" 1" diameter	Nil	"	"	"	Nil
104 to 109	"	"	"	"	"	Nil
Washers, I.R.—						
*110	Cushion, 4½" x 2" x 2-7/16" hole ..	Vict. (partly)	48	each	0 3 0	Dunlop Perdriau Rubber Co. Ltd.
†111	Gauge Glass, flat or round, as ordered, any sizes ordered	"	12 doz.	dozen	0 0 7½	
†112	Gauge Glass, hexagonal, for "B. & W." Boilers, 250-lb. pressure	"	72 "	do.	0 1 0	Nil
†113	With Insertion, any sizes ordered, not exceeding 6"	Nil	"	"	"	
†114	With Insertion, any sizes ordered, over 6"	Nil	"	"	"	Barnet Glass Rubber Co. Ltd.
†115	Royle's Union	Vict. (partly)	12 doz.	dozen	0 1 6½	
*116	Westinghouse Brake Hose ¾"	Nil	"	"	"	Nil
*117	" " 1½"	Vict. (partly)	144 doz.	dozen	0 1 5	Dunlop Perdriau Rubber Co. Ltd.
*118	" " 1¼"	"	1,400 "	do.	0 1 6½	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
INDIA-RUBBER GOODS, PACKING, ETC.—continued.							
PACKING, ETC.							
†119	Packing, Asbestos—	Nil	..	..	..	Nil
	Any sizes ordered	U.K.	400 lb.	lb.	*0 1 4 $\frac{1}{4}$	Mica and Insulating Supplies Co.	
†120	Cord or Yarn, any size ordered .. .. .	..	2,200 ..	do.	*0 0 3 $\frac{1}{2}$	Bell's Asbestos Aust. Agency Ltd.
†121	Millboard, any thicknesses ordered "Bell's"	..	2,200 ..	do.	*0 0 3 $\frac{1}{2}$	Bell's Asbestos Aust. Agency Ltd.	
	Packing, "Sunlight"—	Nil	..	..	..	Nil
122	1/32"	Nil	..	..	..	Nil
123	1/16" .. .. .	..	..	..	..	Nil
†124	1/8"	Vict. (partly)	180 lb.	lb.	0 1 1	Dunlop Perdriau Rubber Co. Ltd.	
125	3/16"	Nil	..	..	..	Nil
125A	Packing, Piston, expansion square 3/8"	Vict. (partly)	80 lb.	lb.	0 3 6 $\frac{1}{2}$	Dunlop Perdriau Rubber Co. Ltd.	
†126	Packing, Patent, up to 1/8" thick— For use in joints of water, steam, or air installations "Jointite"	U.K.	3,000 "	do.	*0 1 0 $\frac{1}{2}$	Barnet Glass Rubber Co. Ltd.	
†126A	For use in joints which may be in contact with air, oil, motor spirit or benzol "Goodyear"	U.S.A.		do.	*0 2 10 (less 2 $\frac{1}{2}$ %)	Goodyear Tyre & Rubber Co. of Aust. Pty. Ltd.	
	Packing, Greasy Hemp, Round—	Nil	..	..	..	} Nil
127	3/4"	Nil	..	..	..
128	1"	Nil	..	..	..
129	1 1/4"	Nil	..	..	..	} Nil
	Packing, Greasy Hemp, Square—	U.K.	24 lb.	lb.	*0 0 9		} Dane, Taylor & Co. Pty. Ltd.
130	3/8" .. .. .	..	96 "	do.	*0 0 9	
131	1/2" .. .. .	..	96 "	do.	*0 0 9	
132	3/4" .. .. .	..	60 "	do.	*0 0 9	
†133	1" .. .. .	..	190 "	do.	*0 0 9	
134	1 1/4" .. .. .	..	190 "	do.	*0 0 9	
135	1" .. .. .	..	190 "	do.	*0 0 9	} Nil
136	1 1/4"	Nil	..	..	..
	Packing, Round, "Snowflake" or any suitable alternative—	Nil	..	..	..	} Nil
137	3/8" .. .. .	..	..	..	..
138	1/2" .. .. .	..	..	..	..
†139	3/4" .. .. .	..	..	..	..
140	1" .. .. .	..	12 lb.	lb.	..	} Nil
	Packing, Round or Square, as ordered—	Vict. (partly)	..	lb.	0 2 9		
141	1/4" .. .. .	..	..	..	..	} Barnet Glass Rubber Co. Ltd.
141A	5/16" .. .. .	..	..	do.	0 2 9	
141B	3/8" .. .. .	..	..	do.	0 2 4	
†141C	1/2" .. .. .	..	30 cwt.	do.	0 2 1	
141D	3/4" .. .. .	..	..	do.	Nil	
142	1" .. .. .	..	18 "	do.	0 1 10	
142A	3/4" and over .. .. .	..	..	do.	0 1 9	
†143	Asbestos Compound "Minerals Ltd."	N.S.W.	24 cwt.	cwt.	0 11 6	Dane, Taylor & Co. Pty. Ltd.	
	Asbestos Graphite, Compounded, suitable for Superheat Temperature, Piston and Valve Spindle Stuffing Boxes—	U.K.	280 lb.	lb.	*0 4 6	Bell's Asbestos Aust. Agency Ltd.	
144	1/2" diameter "Bell's "Victor"	..	..	..	..	Nil
145	Or moulded as per blue print No. 5276 ..	Nil	..	..	..	Nil
146	} Nil.						
to							
160							

BUILDING AND CONCRETE SAND.

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.

BUILDING AND CONCRETE SAND—*continued.*

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 163-163B, orders are to be placed on most advantageous Contractor, having regard to rate and place of delivery.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
†161	Sand— Coarse .. .. .	..	270 c. yds.	c. yd.	..	..	..	Nil
†162	Medium, delivered at Cranbourne	Vict.	330 „	do.	0	1	9	Cranbourne Sand Pty. Ltd.
†163	Coarse, for concrete work, delivered at Koo-wee-rup	„	} 850 „	do.	0	3	0	Plowright Albion Koo-wee-rup Washed Sand & Gravel Co. Pty. Ltd.
†163A	Coarse, for concrete work, delivered at Pyalong	„		do.	0	2	3	J. McNish
†163B	Coarse, for concrete work, delivered at Lal Lal	„		do.	0	3	6	A. P. Parker
164 to 166	} Nil							

SAND FOR LOCOMOTIVES AND MOULDING PURPOSES.

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. 167-167D, orders are to be placed with the most advantageous Contractor, having regard to contract rate, freight to destination, and ability of Contractor to supply.

†167	Sand, for Locomotives— Delivered at Seaford	Vict.	} 600 c. yds.	c. yd.	0	2	9	Albion Sand Co. Pty. Ltd.
†167A	„ Cranbourne	„		do.	0	2	1	Earlston Pty. Ltd.
†167B	„ Lal Lal	„		do.	0	4	0	H. E. Parker
†167C	„ Ballarat East	„		do.	0	3	6	W. Pool
†167D	„ Coleraine	„		do.	0	3	6	Permewan Wright Ltd.
†168	Sand for Brass Moulding purposes	..	10 „	do.	..	..	..	Nil
169 to 171	} Nil							

INFUSORIAL EARTH (GROUND).

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.

†172	Earth, Infusorial, in bags (which will remain property of Contractor), delivered into trucks at Spencer-st., Railway Station	Vict.	20 tons	ton	7	5	0	G. & A. Thomson Pty. Ltd.
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CORDAGE, ROPE, AND TWINES.

The Rope to be supplied under Items 189 to 194A 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.

As regards Items 193 to 194A, any 1½" and 2¼" Rope ordered shall have one blue strand in each rope in addition to the blue yarn in one strand or one blue yarn in each strand as specified respectively.

As regards Items 193 and 194, provided satisfactory service is given, orders are to be equally divided between G. Kinnear and Sons and J. Miller and Co. Ltd.

* As regards Items 202, 205, and 206, the contract rates are plus T.T. Exchange on date of delivery on 80 per cent.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
†173	Cord, Sash, Patent, Jute, any numbers ordered	lb.	} Nil
	Cord, Sash, Braided, in coils—Cotton	..	..	do.	..	..	..
174	No. 6	do.	} Jas. Miller & Co. Pty. Ltd.
175	No. 7 .. .. .	..	..	do.	..	..	..
176	No. 8	Vict. (partly)	300 lb.	do.	0	1	2	
177	No. 9	"	24 "	do.	0	1	2	
178	No. 10	"	24 "	do.	0	1	2	} Nil
179	No. 12 .. .. .	..	Nil	do.	..	..	..
†180	Cord, Whip, any sizes ordered	Vict. (partly)	24 lb.	lb.	0	2	9	} Downs & Son Pty. Ltd.
†181	" Marking (Chalk)	"	32 "	do.	0	2	3	
†182	" Nicking Line, any sizes ordered	"	28 "	do.	0	1	3	Jas. Miller & Co. Pty. Ltd.
	Lines, Fishing—							} Nil
†183	4 oz.	"	Nil dozen	dozen				
†184	Medium	"	Nil "	do.				
†185	16 oz.	"	Nil "	do.				
†186	Flax, 16 oz.	"	Nil "	do.				} Jas. Miller & Co. Pty. Ltd.
†187	Packing, Flax, pure	"	5 cwt.	lb.	0	0	9	
†188	Rope, Clothes Line	"	3 "	cwt.	1	16	0	
†189	" Europe, bolt, entirely of new Russian hemp, up to 3", as ordered, with blue worsted thread in one strand	"	185 "	do.	2	19	6	
	" Manila, fine and long fibre, with blue worsted thread in one strand—							} Geo. Kinnear & Sons Pty. Ltd.
†190	½" up to 2½", as ordered	"	14 "	do.	2	17	0	
†191	Over 2½" up to 12", as ordered	"	26 "	do.	2	17	0	
†191A	" Manila, stretched for power transmission, 3·14 in. circ., 3 strand	"	Nil	do.				Nil
†192	" Manila, stretched for power transmission, 3½ in. circ., 3 strand	"	50 cwt.	do.	3	6	0	} Geo. Kinnear & Sons Pty. Ltd.
†193	" New Zealand and Manila Hemp, 1" to 2", as ordered, with blue yarn in one strand	"	} 375 "	do.	2	1	9	
†193A	" New Zealand, 1" to 2", as ordered, with blue yarn in one strand	"		do.	2	1	0	Jas. Miller and Co. Pty. Ltd.
†194	" New Zealand and Manila Hemp, 2¼" to 3", as ordered, with one blue yarn in each strand	"	} 1,200 "	do.	2	1	9	Geo. Kinnear & Sons Pty. Ltd.
†194A	" New Zealand, 2¼" to 3", as ordered, with one blue yarn in each strand	"		do.	2	1	0	Jas. Miller and Co. Pty. Ltd.
†195	Rope, Lashing, New Zealand Flax	"	16 "	do.	1	17	0	M. Donaghy & Sons Pty. Ltd.
	Rope, Straw, in bundles—							} E. Berriman Pty. Ltd.
195A	½"	"	20 bundles	bundles	0	4	0	
195B	¾"	"	15 "	"	0	4	0	
195C	1"	"	50 "	"	0	3	9	
†196	Marline, 3 cord, in 1-lb. hanks	"	156 lb.	lb.	0	0	8½	} Jas. Miller & Co. Pty. Ltd.
†197	Spun yarn, Jute	"	3 cwt.	cwt.	1	16	0	
†198	Twine, Binder	"	14 "	do.	2	12	0	
†199	" Fine	"	1,500 lb.	lb.	0	0	7¾	
†200	" Medium	"	1,300 "	do.	0	0	7¼	} Frank & Bryce Ltd.
†201	" Coarse	"	540 "	do.	0	0	7¼	
†202	" Seaming, ½ Flax, 3-ply, "Barbour's" No.1	U.K.	500 "	do.	*0	3	7½	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
CORDAGE, ROPE, AND TWINES— <i>continued.</i>						
†203	Twine, Coarse, Special, Jute, for Trimmers' use	Vict. (partly)	600 lb.	do.	0 0 7½	Geo. Kinnear & Sons Pty. Ltd.
†204	„ Mattress, No. 2, 4-ply, in 1-lb. balls	„	50 „	do.	0 1 4	
†205	„ Machine, best 6-cord, right or left hand twist, as ordered, in 1-lb. kops, best pure linen thread, "Finlayson's"	U.K.	3,600 „	do.	*0 4 3	
†206	„ Machine, best 5 cord, right or left hand twist, as ordered, in 1 lb. kops, best pure linen thread, "Finlayson's"	„	500 „	do.	*0 4 3	Frank & Bryce Ltd.
207 to 209	Nil.					

CANVAS AND CANVAS HOSE.

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.
210	33 oz. Canvas	lbs. 270	lbs. 530
211 and 217, 30	„	250	500
212 and 218, 22	„	225	390
213, 20	„	200	390
214, 18	„	225	280
215, 16	„	200	250
216, 14	„	200	215
219, OO, Bleached Canvas	„	185	330
220, Lavender, 19oz.	„	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.

HOSE FOR FIRE EXTINCTION PURPOSES—*Item No. 222.*

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.

Name of Manufacturer—

Items Nos. 210 to 219.—Boase Spinning Co. Dundee.

Item No. 220.—Dunlop Cotton Mills, England.

Item No. 222.—Raven Hose and Belting Co., Manchester.

*As regards Items 210-219, the Contract rates are plus ruling rates of T.T. Exchange on date of delivery on 80%.

*As regards Item 220, the Contract rate is plus ruling rates of T.T. Exchange on date of delivery on 3s. 3d. per lin. yd.

The rate for Item 222 is firm regarding exchange.

210	Canvas, 36" wide— 33 oz. per square yard	U.K.	1,250 lin. yds.	lin. yd.	*0 2 3½	Dalgety & Co. Ltd.
†211	30 oz. „	.. ..	„	2,500 „	do.	*0 2 0½
†212	22 oz. „	.. ..	„	1,000 „	do.	*0 1 8½
†213	20 oz. „	.. ..	„	1,000 „	do.	*0 1 7½
†214	18 oz. „	.. ..	„	5,000 „	do.	*0 1 6
†215	16 oz. „	.. ..	„	1,000 „	do.	*0 1 4
†216	14 oz. „	.. ..	„	1,000 „	do.	*0 1 3½
†217	Canvas, 24" wide— 30 oz. per square yard	.. ..	„	1,250 „	do.	*0 1 5
†218	22 oz. „	.. ..	„	1,000 „	do.	*0 1 2½
†219	OO, Bleached, 28 oz. per sq. yard	.. ..	„	1,350 „	do.	*0 1 5
†220	Canvas, 72" wide, Lavender, 19 oz.	U.K. and Australia	500 „	do.	*0 4 11	Gair Manufacturing Co. Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
CANVAS AND CANVAS HOSE—continued.								
	CANVAS HOSE.							
†221	Hose, Canvas, 2½", for other than fire extinction purposes	U.K.	Nil	lin. yd.	..			Nil
†222	" " 2½", for fire extinction purposes, "Raven"	"	2,000 feet	foot	0	0	11¼	Evan Evans Pty. Ltd.
223 to 228	} Nil							

CANVAS BAGS, TENTS, AND FLIES.

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. The metal plated taps are to be reclaimed and reused wherever possible.

Item No. 231.—The Canvas Water Bottles shall be made of all Long Flax Canvas, free from dressing, and not less than 20-oz. per square yard. They shall be sewn with the best six-cord linen thread.

The canvas used in the manufacture of the water bottles shall be equal in quality to the sample submitted.

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 & U.K.	12	each	0	7	9	} Chief Mechanical Engineer
*230	" Water, Canvas	"	72	do.	0	9	3	
*231	Bottles, Water, Canvas	"	1,300	do.	0	1	6	} J. Gadsden Pty. Ltd.
†232	Flies, Duck, 8' x 10', for 6' x 8' Tents	"	50	..	..	..	..
†233	" " 10' x 12', for 8' x 10' Tents	"	6	..	..	..	..	} Nil
†234	Tents, Duck, 6' x 8'	"	Nil	..	..	..	..
†235	" " 8' x 10'	"	Nil	..	..	..	..
236 to 239	} Nil.							

WIRE ROPE.

Rope, Steel Wire, flexible, galvanized, 6 strands, 19 wires per strand, 90 tons per square inch—								
Circum.	Guaranteed Strength of Rope. Tons.	Aggregate Breaking Strength of Rope. Tons.						
241	1¾"	..	..	960 "	do.	..	..
242	2"	..	..	6,800 "	do.	..	..
243	2½"	..	..	2,000 "	do.	..	..
244	3"	..	..	300 "	do.	..	..
245	3½"	..	..	100 "	do.	..	..
246	4"	..	..	Nil	do.	..	..
247	4½"	..	..	Nil	do.	..	..
248	5"	..	..	Nil	do.	..	..
249	5½"	..	..	Nil	do.	..	..
250	6"	..	..	Nil	do.	..	..
251	2½", 6 strand, 12 wires per strand, for tail ropes	..	..	1,500 feet	do.	..	..

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
WIRE ROPE—continued.								
Rope, Steel Wire, Special, extra flexible, galvanized, 6 strands, 24 wires per strand, 90 tons per square inch—								
		Guaranteed Strength of Rope.	Aggregate Breaking Strength of Rope.					
	Circum.	Tons.	Tons.					
252	1"	500 feet	foot	} Nil
253	1½"	..	..	500 "	do.	..	..
254	1½"	..	..	1,500 "	do.	..	..
255	1½"	..	..	1,000 "	do.	..	..
256	2"	..	..	1,000 "	do.	..	..
257	2½"	..	..	1,500 "	do.	..	..
258	2½"	..	..	1,500 "	do.	..	..
259	Rope, Steel Wire, flexible, 21 gauge (seizing wire)		..	500 "	do.	..	..
Rope, Wire flexible black, best patent steel, acid, 80/90 tons per square inch, 6 strands, 19 wires per strand—								
		Guaranteed Strength of Rope.	Aggregate Breaking Strength of Rope.					
	Circum.	Tons.	Tons.					
260	1½"	..	..	Nil	do.	..	..
260A	1½"	..	..	500 feet	do.	..	..
261	2"	..	..	Nil	do.	..	..
261A	2½"	..	..	500 feet	do.	..	..
261B	2½"	..	..	500 "	do.	..	..

BELTING, LEATHER.

SPECIFICATION FOR ITEMS NOS. 264 TO 268.

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 Department reserves the right to purchase Belting of a higher grade, if required, during the Contract period and such purchase shall not be regarded as an infringement of this Contract.

BELTING, LEATHER, COPPER SEWN.								
262-3	Nil.							
†264	Single, up to 4" wide, as ordered	Vict.	600 sq. ft.	sq. ft.	0 2 11			Joshua Pitt Pty. Ltd.
†265	Single, 4½" to 6" wide, as ordered .. ..	..	Nil.	do.				Nil.
†266	Double, up to 4" wide, as ordered	Vict.	144 "	do.	0 5 6			Hopkins Bros. & Odium Pty. Ltd.
†267	Double, 4½" to 6" wide, as ordered, 2 rows stitching	..	300 "	do.	0 5 11½			Joshua Pitt Pty. Ltd.
†268	Double, 6½" to 8" wide, as ordered, 3 rows stitching, evenly spaced	Nil.						

BELTING, LEATHER, AND LEATHER GOODS.

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 AND 279B.

The Belting, as shown opposite Item No. 279A and 279B, 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.						
BELTING—continued.						
†278	Belting, Rubberized Canvas— 4" wide, in lengths of 9' 4"		Nil	lin. ft.	..	Nil
†279	4" wide, in rolls to cut lengths of 9' 4"	Vict.	760 lin. ft.	do.	*0 1 10	
†279A	Belting, 3" wide x 4-ply, canvas duck, treated with rubber composition; unstitched, for driving train-lighting dynamos	"	5,400 "	do.	*0 1 5	Dunlop Perdriau Rubber Co. Ltd.
†279B				do. do. do.	do.		*0 1 5	Barnet Glass Rubber Co. Ltd.
LEATHER.						
Leather—						
†280	Basil, large size, No. 2	Vict.	3,000	each	0 2 1	Geo. Pizzey & Son Ltd.
†281	Bellows, Oil Dressed	"	60 cwt	cwt.	8 7 6	Zwar Bros. Pty. Ltd.
†281A	" Chrome Tanned	"	15 "	do.	13 1 4	Michaelis, Hallenstein & Co. Pty. Ltd.
†282	Butts, special wax filled	"	7 "	do.	..	Nil
†283	" Harness, of an even thickness throughout, prepared in oil, black or brown	Vict.	1 "	do.	21 0 0	W. Braithwaite & Co. Pty. Ltd.
†284	" special, black, heavy	"	17 "	do.	16 6 8	Michaelis, Hallenstein & Co. Pty. Ltd.
†285	" " " light	"	Nil	do.	..	Nil
†286	Chrome, Backs	Vict.	3 "	do.	16 0 0	Geo. Pizzey & Son Ltd.
†287	Harness, Brown	"	5 "	do.	9 6 8	W. Braithwaite & Co. Pty. Ltd.
†288	" Black, heavy	"	5 "	do.	8 12 0	Geo. Pizzey & Son Ltd.
†289	Rein, Brown, stained	"	5 "	do.	11 5 0	
†290	Sole, Trimmed	"	144 "	do.	11 4 0	W. Braithwaite & Co. Pty. Ltd.
LEATHER GOODS.						
Bags—						
*291	Cash, large, plain	"	100	each	0 3 2	Chief Mechanical Engineer
*292	Tool, Linesmen's	"	Nil	do.	..	Nil
*293	Cash, Hand, 16"	Vict.	6	do.	1 11 0	Geo. Pizzey & Son Ltd.
*294	Tool	"	4	do.	1 1 0	Chief Mechanical Engineer
*295	Signal Adjuster	"	Nil	do.	..	Nil
*296	Motormen's Kit	"	Nil	do.	..	
*297	Guards' Kit	"	Nil	do.	..	
*298	Weighbridge Ticket, lettered, as ordered ..	"	Nil	do.	..	
*299	Carriers, Miniature Staff	"	Nil	do.	..	
†300	Cases, Attache, solid leather, 16" x 9" approx.	(Vict.)	6	do.	1 4 0	Geo. Pizzey & Son Ltd.
†301	Clogs, strong, split kip, blucher pattern, wooden soles, iron shod, sizes 5 to 10, as ordered	"	75 pairs	pair	0 9 3	McIlroy & Plowman Pty. Ltd.
*302	Portfolios, Relieving Stationmasters' ..	"	Nil	each	..	Nil
*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.)	"	Nil	do.	..	
*304	Straps, Clip, 7' 6" long, 1½" wide, heavy buckle, to stand a test pull of 600 lb.	"	Nil	do.	..	
305 to 309	Nil					

* Less 33½ per cent. and 2½ per cent.

FIRE BRICKS, ETC.

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.

As regards Item No. 311—delivery shall be made direct to the Newport Power House by the Contractor.

FOUNDRY COKE.
SPECIFICATION FOR COKE.

Moisture content shall be less than 3 per cent.
 Ash content shall be less than 16 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 of 50 tons and delivery will be given within three weeks from date of order.
 The rates do not include wharfage dues of the Melbourne Harbour Trust. The Corporation will arrange clearance.
 Delivery will be taken in railway trucks at Williamstown, 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 contract rate is subject to adjustment in the event of there being any reduction in the selling rates of Coke during the contract period.

†347 | Coke, Foundry, Purified | N.S.W. | 300 tons | ton :| 2 12 6 | Broken Hill Pty. Co. Ltd.

FILES AND RASPS.

The estimated requirements are based on the full list price.
 The Files and Rasps for Items 348 to 350 shall be of any description, shade, length, or edge ordered.
 The Tenderer shall submit one sample of each 14-inch Hand Second Cut, bastard, and Smooth File for testing purposes.
 Rates tendered by Briscoe and Co. Ltd. are firm as regards Exchange and conversion.
 * Plus T.T. Exchange on date of delivery on 80 per cent.
 Where two tenders have been accepted, provided satisfactory service is rendered, orders are to be equally divided.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
					Percentage of the Price List submitted with the tender and current during the period of this contract.	
†348	Files, bastard, "Brown Bayleys"	U.K.			*—60%	} H. O. White & Co,
†348A	Rasps, bastard, "Brown Bayleys"	"			*—50%	
†348B	Files and Rasps, bastard, as ordered, "Kearney & Foote"	Canada	£800'		—50%	} Briscoe & Co. Ltd.
†349	Files and Rasps, second cut or smooth, as ordered, "Kearney & Foote"	"			—50%	
†349A	Files, second cut or smooth, as ordered	U.K.			*—55%	} Eagle & Globe Steel Co. Ltd.
†349B	Rasps, second cut or smooth, as ordered, sizes not shown in Item 349C	"			*—45%	
†349C	Rasps, second cut or smooth, as ordered, of the following description and sizes will be supplied by the Eagle & Globe Steel Co. at an additional 12½% off price list, viz., 57½%.	"			*—57½%	
	Standard Regular Lines—					
	Half-round—6", 8", 9", 10", 11" 12", 14", 16" and 18"					
	Cabinet—6", 8", 10", 12", 14" and 16"					
	Flat—8", 10", 12" and 14"					
	Horse—12", 14", 15", 16" and 18"					
	Tanged—12", 14" and 16"					
	Shoe—8" and 9"					
	Lightweights—					
	Half-round—10", 12" and 14"					
	Cabinet—10" and 12"					
	Shoe—8" plain					
350	Files, Saw, as ordered		£100			} Nil
*351	Files, Valve Rubber, bastard cut, 6" x 1¼"		12	each		
*352	Files, Valve Rubber, bastard cut, 7" x 1¼"		18	do.		
353						
to 355	Nil					

WOODEN HANDLES (VARIOUS).

The Mop Handle tendered under Item No. 373 shall have a hole $2\frac{1}{2}$ " x $\frac{1}{4}$ " bored at the end for the spike of the Mop.

As regards Item No. 378, the handle supplied shall have a metal "D" provided with a $\frac{1}{4}$ " rivet through the wooden part and rivet fixed securely to the metal "D."

Item No.	Description	Country of Manufacture.	Estimated Requirements,	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
Handles—								
†356	Adze, "Gumleaf"	Vict. and N.S.W.	17 doz.	dozen	0	15	0	John Perry Pty. Ltd.
†357	Axe, 32" .. .. .	.. .. .	Nil	do.	..	..	..	Nil
†358	Axe, 36", "Blue Mountain"	Vict.	70 "	do.	0	13	6	Briscoe & Co. Ltd.
†359	Broom, Short, 3' 6"	"	30 "	gross	1	12	2	Workshops Manager Spotswood
†360	Broom, Long, 6', straight	"	70 "	doz.	0	4	9	
†361	Claw Hammer, "Blue Mountain No. 1"	"	4 "	do.	0	3	11	Briscoe & Co. Ltd.
Handles, Hammer, first quality—								
†362	14", "Blue Mountain No. 1"	"	10 "	do.	0	3	8	Briscoe & Co. Ltd.
†363	16" " " " "	"	100 "	do.	0	4	0		Hardware Co. of Aust. Briscoe & Co. Ltd.
†364	18" " " " "	"	50 "	do.	0	4	4	
†365	20" " " " "	"	50 "	do.	0	5	1	
†366*	22"	"	2 "	do.	..	..	..	Nil
†366A	22" .. .. .	"	..	..	..	..	..
†367*	24"	"	40 "	do.	..	..	..	Nil
†367A	24" .. .. .	"	..	..	..	..	..
*368	24", large eye	"	Nil	do.	..	..	..	Nil
*†369	30"	"	40 "	do.	..	..	..
†369A	30" .. .. .	"	..	..	..	..	..	Nil
*†370	36"	"	140 "	do.	..	..	..
†370A	36" .. .. .	"	..	..	..	..	..	Nil
*†371	38"	"	5 "	do.	..	..	..
†371A	38" .. .. .	"	..	..	..	..	..	Nil
†*372	38", large eye	"	2 "	do.	..	..	..
*373	Handles, Mop, ferruled,	"	20 "	do.	..	..	..	Nil
Handles, Pick—								
†374	D.E., Navy, "Blue Mountain"	Vict.	100 "	do.	0	9	10	Hardware Co. of Aust. Nil
†375	Miners', "Ballarat"	"	18 "	do.	..	..	..
†376	Coal Miners', 85A	"	Nil	do.	..	..	..	John Perry Pty. Ltd.
†377	Handles, Shovel, long-handled, bent, "Gumleaf"	Vict.	20 "	do.	0	16	0	
†378	" " S.H., bent, D top	"	25 "	do.	0	17	11	Briscoe & Co. Ltd.
†379	" Scythe	"	4 "	do.	..	..	..	Nil
†380	" Hatchet, Hickory, for No. 2 Blades Hunters Hatchets, "Blue Mountain"	Vict.	6 "	do.	0	6	4	Briscoe & Co. Ltd.
381 to 386	} Nil.							

AUGERS.

As regards Items Nos. 391 and 392, the Corporation undertakes to order the quantity shown opposite to these items in the Schedule during the contract period.

As regards Items 387-392, the rates quoted are firm for contract period regarding Exchange.

Augers, Screw, "Ridgways"—								
†387	$\frac{3}{8}$ " diameter	U.K.	4 doz.	dozen	0	18	5	Briscoe & Co. Ltd.
†388	$\frac{1}{2}$ " " " " "	"	20 "	do.	0	18	5	
389	$\frac{3}{4}$ " " " " "	"	50 "	do.	1	0	10	
390	1" " " " "	"	10 "	do.	1	11	3	
Augers, Screw, for railway hardwood sleepers, 8 threads per inch on lead screw, and cutting edges sharpened, "Ridgways"—								
†391	$\frac{1}{2}$ " diameter	"	40 doz.	do.	1	5	3	Briscoe & Co. Ltd.
†392	$\frac{3}{4}$ " " " " "	"	40 "	do.	1	5	3	
393 to 404	} Nil.							

ADZES, AXES, ETC.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
	Adzes, Carpenters'—							
†405	No. 2, plain	} Nil	} each	} Nil	
†405A	No. 2, pin-poled .. .. .	..					
†406	No. 3, plain .. .. .	..					
†406A	No. 3, pin-poled .. .. .	..					
†407	Axes, handled, 5 lb. .. .. .	..	100	do.	..	..
†408	Hatchets, Axe pattern, handled, "Brades No. 2" .. .. .	..	120	do.	..	..
†409	Hatchets, Lathing, No. 3, handled .. .. .	..	Nil	do.	..	..
†410	Hooks, Bush, axe-handled .. .. .	..	Nil	do.	..	..
†411	" Fern .. .. .	..	120	do.	..	..
†412	Mattocks .. .. .	..	Nil	do.	..	..
†413	Slashers, Straight-handled .. .. .	..	Nil	do.	..	..
414 and 415	} Nil.							

SHOVELS, PICKS, ETC.

Name of Manufacturer—

Items Nos. 422, 423, 424A.—Wm. Savage and Co. Ltd., N.S.W.
 Item No. 430—Mintern and Biehart.

* Plus ruling rate of T.T. Exchange on date of delivery on 80 per cent.

Shovels, Steel—							
†416	Long-handled, round mouth, No. 3	N.S.W.	36	each	0 5 3	} Tulloch Phoenix Iron Works Ltd.	
†417	" square mouth, No. 3	"	60	do.	0 5 3		
†418	Moulders', smooth back, No. 2	"	60	do.	..	Nil	
†419	Navy, round mouth, No. 4, "D" handled	N.S.W.	600	do.	0 5 4	} Tulloch Phoenix Iron Works Ltd.	
†420	Square mouth, No. 3	"	900	do.	0 5 4		
†421	Fuelmen's, No. 6, coal scoops	"	300	do.	0 8 6	} J. Wildridge & Sinclair Ltd.	
†422	Coal, square-mouthed, D handled, No. 6	"	100	do.	0 5 3		
†423	" " " " No. 7	"	80	do.	0 5 4	} Tulloch Phoenix Iron Works Ltd.	
†424	Firemen's	"	600	} do.	0 6 6		
†424A	Firemen's	"					
†425	Forks, Digging, 5-prong .. .. .	..	Nil	do.	..	} Nil
†426	" Stone, 8-prong .. .. .	..	Nil	do.	..	
†427	Picks, Miners', 4 lb. .. .. .	..	Nil	do.	..	} Briscoe and Co. Ltd.
†428	" Coal Miners', 2 lb., Brades No. 1305	U.K.	120	do.	*0 2 2		
†429	" Navy, double-ended, diamond and chisel pointed, 7 lb. .. .. .	..	Nil	do.	..	Nil
†430	Steel D's (without stales) for Shovel Handles	Vict.	200	do.	0 1 0½	McPhersons's Pty. Ltd.	
431 to 433	} Nil						

SAWS AND BLADES.

Names of Manufacturers—

Items Nos. 434 to 436.—J. Vessey & Sons Ltd.
 Items Nos. 437 and 438.—Chas. Baynes.
 Item No. 439.—Marsh Bros.
 Item Nos. 440 to 443.—F. Leech & Co.
 Item No. 445.—Premier Saw Co., Annandale.

* These rates are Plus ruling rate of T.T. Exchange on date of delivery on 80 per cent.

Blades, Hack Saw—Vessey's "Echo"—						
†434	9" x ½" x 23 G., 30 to 32 points per inch	U.K.	72 doz.	dozen.	*0 1 3	} Coates & Co. Pty. Ltd.
†435	9" x ½" x 23 G., 18 points per inch	"	500 "	do.	*0 1 3	
†436	10" x ½" x 23 G., 18 points per inch	"	1,000 "	do.	*0 1 5	
Blades, Hack Saw, High Speed—"C. Baynes"						
†437	17" x 1" x 18 G., 10 points	"	70 "	do.	*1 10 0	} Alfred Herbert (Aust.) Ltd.
438	Any length over 12" (other than 17", as shown above), as ordered, comprising either 14" x 1" x 18 G., 10 points, or 16" x 1" x 18 G., 10 points	"	1,300 ins.	inch	*0 0 2	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per--	Rate.			Name of Contractor.
					£	s.	d.	
SAWS AND BLADES—continued.								
†439	Blades, Hack Saw, High Speed, for railway rails, 12" x about $\frac{3}{16}$ " x about 23 gauge, 14 to 18 points per inch, as ordered, "Roxo" "E.Q." Tungsten	U.K.	900 ins.	dozen	*0	2	3½	Frank Wells Pty. Ltd.
440	Saws, Band, narrow, in coils up to 108', and any gauge, as ordered— $\frac{3}{8}$ "	Victoria (partly)	100 feet	foot	0	0	4	} F. Leech & Co.
441	$\frac{1}{2}$ "	"	280 "	do.	0	0	5	
442	$\frac{3}{4}$ "	"	200 "	do.	0	0	6½	
443	1"	"	100 "	do.	0	0	8½	
444	Saws, Band, case hardened, for steel rail cutting, 1" width, 21 gauge, 14 teeth per inch .. .. .	..	500 "	each	..	..	..	Nil
445	Saws, Circular, any gauge ordered, 30"	N.S.W. (partly)	100 ins.	do.	2	19	6	Eagle & Globe Steel Co. Ltd.
446	Saws, Circular, crosscut, 22" dia., 11 gauge .. .. .	..	12 "	..	..	..	..	Nil
447	} Nil	..	..	..	..	..	..	..
to		..	..	..	..	..	..	..
466		..	..	..	..	..	..	..

WIRE (IRON AND STEEL).

(See Appendix "D" for Specification.)

As regards Items Nos. 472 to 475, 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 Harbor Trust; but to enable the Corporation to obtain exemption of wharfage, each Bill of Lading should be made out in favor 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 467, the rate is subject to rise or fall in the event of the Manufacturer's price for Wire rising or falling during the currency of the Contract, such alteration to apply to the undelivered quantity at date of notification of amendments.

WIRE.								
467	Wire, Iron, Charcoal, 8 to 16 s.w. gauge, as ordered, "Rylands"	N.S.W.	6 cwt.	cwt.	1	2	3	Briscoe & Co. Ltd.
468	Wire, Iron, Galvanized— 6 s.w. gauge .. .. .	..	6 "	do.	..	..	..	} Nil
469	10 " .. .. .	..	3 "	do.	..	..	..
470	16 " .. .. .	..	3 "	do.	..	..	..
471	Wire, Iron, Tinman's, 6 to 14 s.w. gauge, as ordered .. .. .	..	2 "	do.	..	..	..
†472	" Mild Steel, Hard Black Fencing, 6 B.W. gauge (203") for spark arresters .. .. .	..	4 tons	ton	..	..	..	} Nil
473	" Steel, Galvanized, Stranded, 7/144, to Specification, delivered at Batman avenue .. .. .	..	4 miles	do.	..	..	..
474	" Galvanized, Plain Fencing, to Specification .. .. .	..	60 tons	do.	..	..	..
475	" Galvanized, Barbed, Fencing, to Specification .. .. .	..	Nil	do.	..	..	..	..
*476	Seals, Truck	Vict. and N.S.W.	132,000	1,000	0	14	6	Melbourne Wire Works
477	} Nil.	..	..	..	..	..	..	..
to		..	..	..	..	..	..	..
486	..	..	..	..	..	..	..	..

BRICKS, BUILDING.

(Various Districts.)

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.	16,000	1,000	3	3	0	Bendigo Brick Co.

Item No.	Description.	Country of Manufacture.	Estimated Requirements,	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
BRICKS, BUILDING—continued.							
BALLARAT DISTRICT.							
†488	Bricks, Building, delivered into trucks at Selkirk's Siding, Ballarat	Vict.	16,000	1,000	2 15 0	James Selkirk Pty. Ltd.	
MARYBOROUGH DISTRICT.							
†489	Bricks, Building, delivered into trucks at Selkirk's Siding, Ballarat	"	6,000	do.	2 15 0		
NORTH-EASTERN DISTRICT -- TOOLAMBA TO KYABRAM AND BRANCH LINES.							
†490	Bricks Building, delivered into trucks at Railway Station	..	Nil	do.	..	Nil	
NORTH-EASTERN DISTRICT—BENALLA TO WODONGA AND BRANCH LINES.							
†491	Bricks, Building, delivered into trucks at Railway Station	..	Nil	do.	..		
492 and 493	Nil.						

EXPLOSIVES AND AMMUNITION.

As regards Item No. 495, if ordered in less than case lots of 300 coils, the rate shall be 9d. per coil. Name of Manufacturer—Item No. 495, Nobel (Aust.) Pty. Ltd.

EXPLOSIVES.						
494	Caps, No. 6, in boxes of 100, delivered f.o.r. Laverton	..	20 boxes	box	..	Nil
495	Fuse, Single Thread, in coils of 8 yards	Vict. (partly)	80,000 coils	coil	0 0 8	Dalgety & Co. Ltd.
496	Gelignite, 50 per cent., delivered f.o.r. Laverton	..	20 cases	case of 50 lb. net	..	Nil
497	Powder, Nitrate of Potash, Blasting, in 25-lb. or 50-lb. kegs, delivered f.o.r. Laverton	..	200 lb.	100 lb.	..	
498	Powder, Blasting, Black, in 25-lb. or 50-lb. Kegs, as ordered, delivered f.o.r. Laverton	..	200 lb.	100 lb.	..	
	Cartridges, Smokeless, .32 calibre, in boxes of 25 or 50—	..			..
†499	Auto. Pistol, "Browning F.N."	..	5,000	100	..	
500	Nil.					

PHOTOGRAPHIC MATERIALS.

As regards items 503, 504, 506, 507, 511, 513, 516, 521, 524, 526, 527, 529, 530, 593, 593a, 594, 594a, and 594b the Contract rates are plus ruling rate of T.T. Exchange on date of delivery on 80 per cent.

As regards item 555a, 2s. 6d. extra will be credited to Department on return of containers in good order and condition.

As regards item 502, 543-545, 547-551, 553, 554, 555a, 560, 562-565, 567-571, 576, 577, 581-585 588a-590, 595, 597-604, 608, and 609, should there be any fall in the ruling rate of T.T. exchange (30½ per cent.), these rates shall be subject to adjustment to the satisfaction of the Comptroller of Stores, the amended rates to apply to any stores ordered after the expiration of two months from date of announcement of such reduced exchange rates.

501	Albums, 12 leaf, loose leaf, 9½" x 6½"	..	Nil	..	..	Nil
Chemicals, Pure—						
502	Acid, Acetic (Glacial)	Vict. (partly)	12 lb.	lb.	0 2 7	Kodak (Aust.) Pty. Ltd.
503	" Citric	U.K.	2 "	do.	*0 1 9	
504	" Pyrogallic, in 2-lb. bottles	"	8 "	do.	*0 7 6	
505	Alcohol, Absolute	..	6 "	..	..	Felton, Grimwade, Duerdins Ltd. Nil
506	Amidol	France	4 "	do.	*0 9 0	Kodak (Aust.) Pty. Ltd.
507	Ammonium Chloride	U.K.	3 "	do.	*0 0 7	Felton, Grimwade, Duerdins Ltd.
508	" Iodide	..	3 "	..	..	Nil

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per--	Rate.	Name of Contractor.	
					£ s. d.		
PHOTOGRAPHIC MATERIALS—continued.							
509	Chemicals, Pure— <i>continued.</i> Amylum, Pulverized	Vict.	14 lb.	lb.	0 0 6	} Felton, Grimwade & Duerdins Ltd.	
510	Barium Sulphide	Nil		Nil
511	Cadmium Bromide	U.K.	3 lb.	lb.	*0 8 0	} H. B. Selby & Co.	
512	" Iodide	1 "	do.	..		Nil
513	Chrome Alum	U.K.	30 "	do.	*0 0 5	} Felton, Grimwade & Duerdins Ltd.	
514	Collodion, 2 per cent., enamel, in tins of 28 lb.	..	56 "		Nil
515	Copper, Sulphate of .. .. .	..	7 "	lb.	..	..
516	Dextrine, White	Holland	112 "	do.	*0 0 4	} Felton, Grimwade & Duerdins Ltd.	
517	Ether, Sulphuric	Vict.	*6 "	do.	0 2 6		..
518	Ferric Ammonium Citrate (green) .. .. .	..	Nil	do.	..	..
519	" " (brown) .. .. .	..	Nil	do.	..	Nil
520	Hydroquinone .. .. .	..	8 lb.	do.	..	..
521	Iodine (Resublimed)	U.K.	1 "	do.	*1 3 0	} H. B. Selby & Co.	
522	Iron, Sulphate of, Pure	Vict.	4 "	do.	0 0 3		..
523	Mercury, Bichloride .. .. .	..	Nil	do.	..	Nil
524	Metol	France	16 lb.	do.	*0 9 6	Kodak (Aust.) Pty. Ltd.	
525	Opaque, "Eastman's" No. 1 size, or any suitable alternative	..	24 tubes	tube	..	Nil	
526	Potassium Bichromate	U.K.	100 lb.	lb.	*0 0 6	} Felton, Grimwade & Duerdins Ltd.	
527	" Bromide (pkt.)	14 "	do.	*0 1 9		Kodak (Aust.) Pty. Ltd.
528	" Ferricyanide .. .. .	..	30 "	do.	..	Nil
529	" Iodide	U.K.	2 "	do.	*0 18 6	} H. B. Selby & Co.	
530	" Metabisulphite (pkt.)	12 "	do.	*0 1 0		Kodak (Aust.) Pty. Ltd.
531	" Permanganate .. .. .	..	2 "	..	..	Nil
532	Powder, Flash .. .. .	..	4 "	lb.	..	..
533	Sheets, Flash, size No. 3 .. .. .	..	Nil	pkt.	..	..
534	Soda, Hyposulphite .. .. .	..	8 cwt.	cwt.	..	Nil
535	" Sulphide .. .. .	..	7 lb.	lb.	..	..
536	" Sulphite (Anhydrous) .. .. .	..	112 "	do.	..	..
537	" Carbonate	Vict.	28 "	do.	0 0 3½	} Felton, Grimwade & Duerdins Ltd.	
538	Oil of Cloves	1 "		Nil
Film—							
539	Cine, in 100-ft. rolls, "Kodak," or any suitable alternative	..	Nil	roll	..	} Nil	
539A	" Panchromatic, in 100-ft. rolls, "Kodak," or any suitable alternative rolls	..	Nil	do.
539B	" Kodacolor, in 50-ft. rolls, "Kodak," or any suitable alternative	..	Nil	do.
539C	" Negative Non-reversing, in 100-ft. rolls	..	Nil	do.
540	Cut Par Speed, 4½" x 3½" .. .. .	..	Nil	gross	..	} Kodak (Aust.) Pty. Ltd.
541	" " 5" x 4"	Nil	do.
542	" " 9 c.m. x 12 c.m.	Nil	do.
543	" Super Speed, 4½" x 3½", "Kodak"	Vict. (partly)	1 gross	do.	1 7 0		..
544	" " 5" x 4" .. .. .	..	1 "	do.	2 2 9	} Kodak (Aust.) Pty. Ltd.
545	" " 6½" x 4½"	2 "	do.	2 16 3		..
546	" " 9 c.m. x 12 c.m. .. .. .	..	1 "	do.	..	Nil
547	Panchromatic, 4½" x 3½", "Kodak"	Vict. (partly)	1 "	do.	1 11 6	} Kodak (Aust.) Pty. Ltd.	
547A	" " 5" x 4"	2 "	do.	2 5 0		..
548	" " 6½" x 4½"	1 "	do.	3 3 0		..
549	" " 9 c.m. x 12 c.m., "Kodak"	1 "	do.	2 5 0		..
Spools, Photographic Roll, 6 exposures, "Kodak"—							
550	2½" x 3½", No. 120 .. .. .	..	2,000 rolls	roll	0 0 10½	} Nil
551	2½" x 4½", No. 116	1,500 "	do.	0 1 0½		..
552	3½" x 4½" .. .. .	..	Nil	..	..	Nil
553	3½" x 5½", No. 122	Vict. (partly)	200 rolls	roll	0 1 8½	} Kodak (Aust.) Pty. Ltd.	
554	5" x 4"	6 "	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.	1 bale	cwt.	9 10 0	Davis Gelatine Pty. Ltd.
555A	Glazing Solution, concentrated 1 to 80, in winchesters ..	Vict. (partly)	6 quarts	80 oz.	1 3 7	Kodak (Aust.) Pty. Ltd.
556	Glue, Sheet, "Trumpet"	14 lb.	lb.	..	Nil
Measures, Glass—						
557	2 oz.	3	} Nil
558	10 oz. ..	..	6	..	..
559	20 oz. ..	..	12	..	..
Mounting, Tissue, Dry—						
560	24" x 20" ..	Vict. (partly)	1 ream	ream	5 15 0	Kodak (Aust.) Pty. Ltd.
561	8½" x 6½", in boxes of 1 gross	Nil	Nil
†562	Mounts, 8 sheet, 31" x 25" Board, Rough edge, Grade CX., Brown, Grey, White, or Cream, as ordered ..	Vict. (partly)	800	100	3 19 0	} Kodak (Aust.) Pty. Ltd.
†563	Mounts, 4 sheet, 30" x 24", Cream, White, or Brown, as ordered ..	"	500	100	3 3 0	
Paper, Bromide, Single Weight, any surface ordered—						
564	25' long x 25" wide, "Kodak" ..	"	24 rolls	roll	0 19 3	} Nil
565	25' long x 30" wide ..	"	2 "	do.	1 2 9	
566	5½" x 3½" ..	"	Nil	1,000	..	
567	6½" x 4½", "Kodak" ..	Vict. (partly)	1,500 sheets	do.	3 11 9	} Kodak (Aust.) Pty. Ltd.
568	8½" x 6½" ..	"	7,000 "	do.	6 9 6	
569	10" x 8" ..	"	8,000 "	do.	9 6 2	
570	12½" x 10½" ..	"	3 gross	gross	2 6 0	
571	15½" x 12½" ..	"	3 "	do.	3 7 11	
572	18" x 16" ..	"	Nil	..	..
573	20" x 16" ..	"	Nil	..	..
574	25" x 14½" ..	"	Nil	Nil
575	28" x 16" ..	"	Nil
Paper, Bromide, Double Weight, any surface ordered—						
576	25' long x 25" wide, "Kodak" ..	Vict. (partly)	20 rolls	roll	1 2 3	} Kodak (Aust.) Pty. Ltd.
577	25' long x 30" wide ..	"	6 "	do.	1 6 3	
578	6½" x 4½", "Kodak" ..	"	Nil	} Nil
579	8½" x 6½" ..	"	Nil	..	..
580	10" x 8" ..	"	Nil	..	..
581	12½" x 10½" ..	Vict. (partly)	2 gross	gross	2 12 10	} Kodak (Aust.) Pty. Ltd.
582	15½" x 12½" ..	"	4 "	do.	3 17 9	
583	18" x 16" ..	"	1 "	do.	5 15 10	
584	20" x 16" ..	"	1 "	do.	6 8 9	
585	25" x 14½" ..	"	5 "	do.	7 5 6	
586	28" x 16" ..	"	Nil	do.	..	
Paper, Bromide, Double Weight—						
587	Wellington Cream, Crayon, 12½" x 10½"	1 gross	do.	..	} Nil
588	" " " " 15½" x 12½" ..	..	1 "	do.	..
588A	Portrait, 8½" x 6½", "Kodak" Double Weight ..	Vict. (partly)	1 "	do.	1 6 11	} Kodak (Aust.) Pty. Ltd.
588B	" " " " 10" x 8" ..	"	4 "	do.	1 19 2	
589	" " " " 12½" x 10½" ..	"	4 "	do.	3 5 1	
590	" " " " 15½" x 12½" ..	"	3 "	do.	4 18 9	
591	" " " " 23" x 17" ..	"	2 "	..	..
592	Paper Bromide, Post Cards	Nil	Nil
Plates, Orthochromatic, backed, "Imperial Eclipse"—						
593	4½" x 3½" ..	U.K.	1 gross	gross	*2 3 2	} Kodak (Aust.) Pty. Ltd.
593A	5" x 4" ..	"	4 "	do.	*3 9 7	
594	6½" x 4½" ..	"	12 "	do.	*4 4 0	
594A	8½" x 6½" ..	"	½ "	do.	*7 11 2	
594B	12 Cm. x 9 Cm. ..	"	6 "	do.	*2 12 9	
595	Plates; Lantern, "Austral", 3½" x 3½" ..	Vict. (partly)	2 "	do.	1 2 6	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per--	Rate.	Name of Contractor.
					£ s. d.	
PHOTOGRAPHIC MATERIALS—continued.						
	Plates, Photographic, Dry, Orthochromatic, backed, "Austral"—					
596	1/4 .. .. .	..	Nil	doz.	..	Nil
597	1/2	Vict. (partly)	9 doz	do.	0 4 10	Kodak (Aust.) Pty. Ltd.
598	1/4	"	20 "	do.	0 8 7	
	Plates, Process, "Austral"—					
599	8 1/2" x 6 1/2"	Vict.	15 doz.	doz.	0 8 7	Kodak (Aust.) Pty. Ltd.
600	12" x 10"	"	4 "	do.	1 0 7	
601	15" x 12"	"	6 "	do.	1 17 6	
	Plates, Process, Panchromatic, "Austral"—					
602	8 1/2" x 6 1/2"	"	6 "	do.	0 10 1	Kodak (Aust.) Pty. Ltd.
603	12" x 10"	"	2 "	do.	1 4 4	
604	15" x 12"	"	3 "	do.	2 3 1	
	Plates, backed, "Speedway Austral" or any suitable alternative—					
605	4 1/4" x 3 1/4" .. .. .	..	Nil	gross		Nil
606	5" x 4" .. .. .	..	..	do.		
607	6 1/2" x 4 1/2" .. .. .	..	..	do.		
	Plates, Panchromatic, Backed, "Kodak"—					
608	6 1/2" x 4 1/2"	Vict. partly	3 doz.	doz.	0 6 0	Kodak (Aust.) Pty. Ltd.
609	8 1/2" x 6 1/2"	"	3 "	"	0 10 10	
610 to 616	Nil.					

TUBES AND FITTINGS.

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.

Names of Manufacturers—

Items Nos. 617-624—Stewarts and Lloyds, Glasgow

Items Nos. 617A-624A—Scottish Tube Co., Glasgow

Items Nos. 633, 633A, 635, and 635A—E. Weir, N.S.W.

As regards Items Nos. 617 to 624A the contract rates are plus ruling rate of T.T. exchange on date of delivery on 80 per cent.—equal tenders the business to be divided.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per--	Percentage of 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— Black, up to 3" diameter	U.K.	£ 30	..	*55%	Stewarts & Lloyds (Aust.) Ltd.
617A	" .. .. .	"	..	..	*55%	Elder, Smith & Co. Ltd.
618	" over 3" and up to 6" diameter	"	10	..	*35%	Stewarts & Lloyds (Aust.) Ltd.
618A	" .. .. .	"	..	..	*35%	Elder, Smith & Co. Ltd.
619	Galvanized, up to 3" diameter	"	770	..	*42 1/2%	Stewarts & Lloyds (Aust.) Ltd.
619A	" .. .. .	"	..	..	*42 1/2%	Elder, Smith & Co. Ltd.
620	" over 3" and up to 6" diameter	"	36	..	*25%	Stewarts & Lloyds (Aust.) Ltd.
620A	" .. .. .	"	..	..	*25%	Elder, Smith & Co. Ltd.
621	(M) Galvanized, up to 3" diameter	"	500	..	*37 1/2%	Stewarts & Lloyds (Aust.) Ltd.
621A	(M) .. .. .	"	..	..	*37 1/2%	Elder, Smith & Co. Ltd.
622	(M) Galvanized, over 3" and up to 6" diameter	"	10	..	*20%	Stewarts & Lloyds (Aust.) Ltd.
622A	(M) .. .. .	"	..	..	*20%	Elder, Smith & Co. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
TUBES AND FITTINGS—continued.						
623	Steam, screwed and socketed, up to 3" diameter	U.K.	1,300	..	*45%	Stewarts & Lloyds (Aust.) Ltd.
623A	" " " " " " " " " " " "	"				
624	" " screwed and socketed, over 3" and up to 6" diameter	"				
624A	" " " " " " " " " " " "	"	10	..	*27½%	Stewarts & Lloyds (Aust.) Ltd.
	Bends, Long Screws, and "Springs," Wrought Iron, of approved thickness—					
625	Galvanized, up to 3" diameter ..	Vict. (partly)	£ 5	..	20%	J. Danks and Son Pty. Ltd.
626	" " " " " " " " " " " "	..	1	..	..	} Nil
	Fittings, Wrought Iron, of approved thickness—					
627	Black, up to 2" diameter ..	..	22	..	..
628	" " 2½" and up to 6" diameter ..	..	2	..	..
629	Galvanized, up to 2" diameter ..	..	55	..	..
630	" " 2½" and up to 6" diameter ..	..	24	..	..
631	Steam, up to 2" diameter ..	..	28	..	..
632	" " 2½" and up to 6" diameter ..	..	2	..	..
	Fittings, Malleable Iron, of approved thickness—					
633	Black, up to 2" diameter, excepting unions	N.S.W.	5	..	55%	} Briscoe and Co. Ltd.
633A	" unions, up to 2" diameter ..	"				
634	" " 2½" and up to 6" diameter ..	..	1	..	45%	} Nil
635	Galvanized, up to 2" diameter, except unions	N.S.W.	20	..	45%	} Briscoe and Co. Ltd.
635A	" unions, up 2" diameter ..	"				
636	" " 2½" and up to 6" diameter ..	..	1	..	..	} Nil
637	Steam, up to 2" diameter ..	..	2	..	..
638	" " 2½" and up to 6" diameter ..	..	1	..	..
639 to 642	} Nil					

SCREWS AND SPLIT PINS.

The estimated requirements are based on the full list price. As regard Items Nos. 643-648, 650, and 651, the Department is to receive the benefits of any reduction made by the manufacturers in their wholesale selling rates during the Contract period. Such reduction to apply from the date of the maker's announcement.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Percentage off the Price List submitted with the tender and current during the period of Contract.	Name of Contractor.
	Screws, any sizes ordered, "Nettlefolds"—					
	Wood, Brass, countersunk—					
643	Up to and including 12 gauge ..	Vict.	£200	..	+10½%	} E. Duckett & Sons
644	13 to 18 gauge ..	(partly)	£700	..	+10½%	
645	Wood, Brass, round head—	"	£25	..	+10½%	
646	Up to and including 12 gauge ..	"	£5	..	+10½%	
647	13 to 18 gauge ..	"	£36	..	+18%	} Nil
648	Wood, Brass, raised head ..	"	£400	..	-26½%	
649	" " Iron, countersunk ..	"	£6	..	..
650	" " " " round head, japanned ..	"	150 gross	gross	-44½%	} E. Duckett & Sons
	Stove Brass, round, countersunk or cheese head, as ordered, any trade sizes ordered, up to ⅝"					
651	" " Iron, round or countersunk, as ordered, any trade sizes ordered, up to ⅝"	Vict. (partly)	450	..	do.	} Nil
652	" " Iron, round head, 1" x ½"	..	..	..	..

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.	
					£	s.	d.		
SCREWS AND SPLIT PINS—continued.									
653	Screws, Coach, Square head, Gimlet pointed— 2" x 1/2"	Vict. (partly)	1 cwt.	cwt.	2	14	0	McPherson's Pty. Ltd.	
654	2 1/2" x 3/8"	..	Nil	do.	} Nil	
655	3" x 1/2"	..	Nil	do.	..	..	..
656	5" x 3/4"	Vict. (partly)	1 cwt.	do.	1	13	0		
657	Any lengths ordered x 3/8"	..	2 "	do.	3	6	0	} McPherson's Pty. Ltd.	
658	Sizes other than Items 653 to 657 inclusive, in 1/8", 5/16", or 3/8" diameter, as ordered	..	12 "	do.	2	9	0		
Screws, Coach, Square head, Patent pointed—									
659	2 1/2" x 1/4" x 7/8" head	..	Nil	} Nil	
660	4 1/2" x 5/16" x 1 1/8" head	..	Nil	..	..	..	..
661	4 1/2" x 5/16" x 1 1/16" head	..	Nil	..	..	..	..
662	5" x 3/4" x 1 1/16" head	Vict. (partly)	60 cwt.	cwt.	1	8	0		
663	Sizes 1/2", 5/8", 3/4", diameter, other than Items 659 to 662 inclusive, as ordered	..	24 "	do.	2	3	0		
Screws, Set, Black, Hex. Head—									
664	1" x 5/16"	..	2 gross	gross	0	5	5	} McPherson's Pty. Ltd.	
665	1 1/4" x 5/16"	..	4 "	do.	0	5	9		
666	1 1/2" x 5/16"	..	2 "	do.	0	6	2		
667	1" x 3/8"	..	5 "	do.	0	6	6		
668	1 1/4" x 3/8"	..	2 "	do.	0	7	4		
669	1 1/2" x 3/8"	..	1 "	do.	0	7	11		
670	2" x 3/8"	..	2 "	do.	0	8	6		
671	2 1/4" x 3/8"	..	1 "	do.	0	9	6		
672	3" x 3/8"	..	2 "	do.	0	10	6		
673	1" x 1/2"	..	6 "	do.	0	8	8		
674	1 1/4" x 1/2"	..	3 "	do.	0	9	2		
675	1 1/2" x 1/2"	..	4 "	do.	0	9	8		
676	1 3/4" x 1/2"	..	1 "	do.	0	10	9		
677	2" x 1/2"	..	1 "	do.	0	11	6		
678	2 1/4" x 1/2"	..	2 "	do.	0	13	0		
679	1 1/4" x 3/4"	..	2 "	do.	1	0	0		
680	2" x 3/4"	..	1 "	do.	1	1	6		
681	2 1/4" x 3/4"	..	1 "	do.	1	3	0		
682	2" x 7/8"	..	2 "	do.	1	11	0		
683	2 1/4" x 7/8"	..	2 "	do.	1	15	0		
684	2 3/4" x 1"	..	2 "	do.	2	18	0		
Screws, Set, Bright, Hex. Head—Whitworth head and thread—"Duly and Hansford"									
685	1" x 3/16"	N.S.W.	3 gross	gross	0	13	2		} McPherson's Pty. Ltd.
686	1 1/4" x 3/16"	..	2 "	do.	0	15	9		
687	1 1/2" x 3/16"	..	1 "	do.	0	17	10		
688	2" x 3/16"	..	1 "	do.	0	18	11		
689	1" x 1/4"	..	4 "	do.	1	0	9		
690	1 1/4" x 1/4"	..	2 "	do.	1	1	6		
691	1 1/2" x 1/4"	..	4 "	do.	1	4	3		
692	1 3/4" x 1/4"	..	1 "	do.	1	6	3		
693	2" x 1/4"	..	5 "	do.	1	8	5		
694	2 1/4" x 1/4"	..	1 "	do.	1	14	9		
695	3" x 1/4"	N.S.W.	1 gross	gross	1	18	0		
696	2" x 5/16"	..	2 "	do.	2	3	8		
697	2 1/4" x 5/16"	..	1 "	do.	2	8	5		
698	1 1/4" x 5/16"	..	1 "	do.	2	9	4		
699	1 1/2" x 5/16"	..	1 "	do.	2	9	4		
700	2" x 5/16"	..	1 "	do.	2	15	8		
701	2 1/4" x 5/16"	..	1 "	do.	2	18	10		
702	3" x 5/16"	..	1 "	do.	3	7	3		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
SCREWS AND SPLIT PINS.— <i>continued.</i>						
	Screws, Set, Bright, Hex. Head—Whitworth head and thread—"Duly & Hansford"— <i>continued.</i>					
703	2" x $\frac{7}{8}$ "	N.S.W.	1 gross	gross	3 11 5	} McPhersons Pty. Ltd.
704	2 $\frac{1}{4}$ " x 1"	"	1 "	do.	5 15 0	
705	5" x 1 $\frac{1}{8}$ "	"	2 "	do.	..	
						Nil
					Percentage off the price list submitted with the tender and current during the period of contract.	
	Pins, Split—					
706	Any sizes ordered up to and including $\frac{3}{16}$ " ..	Vict.	£50	..	62 $\frac{1}{2}$ %	} A. E. & F. Tame
707	" " " over $\frac{3}{16}$ " to $\frac{1}{4}$ " ..	"	£60	..	57 $\frac{1}{2}$ %	
708	" " " over $\frac{1}{4}$ "	"	£20	..	52 $\frac{1}{2}$ %	
709	6" x $\frac{1}{8}$ "	"	8 gross	gross	1 0 4 $\frac{1}{2}$	} E. Duckett & Sons
710	7" x $\frac{1}{8}$ "	"	12 "	do.	2 7 9	
					less 45%	} A. E. & F. Tame
711 to 714	Nil					

NAILS, ETC.

	Brads, Finishing—						
†715	$\frac{5}{8}$ "	Vict.	84 lb.	lb.	0 0 5 $\frac{1}{2}$	} Briscoe & Co. Ltd.	
†716	$\frac{3}{4}$ "	"	5 "	do.	0 0 5 $\frac{1}{2}$		
	Nails, Clout, Wire—						
717	$\frac{5}{8}$ " bright x 12 gauge	"	36 "	cwt.	1 11 3	} E. Duckett & Sons	
718	1 $\frac{1}{4}$ " galvanized x 12 gauge	"	56 "	do.	1 18 7		
	Nails, Roofing, Galvanized, Spring-head, in 1-cwt. cases—						
719	2 $\frac{1}{2}$ "	"	3 cwt.	do.	..	} Nil	
720	2 $\frac{3}{4}$ "	"	5 "	do.	..		
	Nails, Steel, Black, "Cooks"—Corrugated						
721	6"	Vict.	36 "	do.	1 8 0	} McPherson's Pty. Ltd.	
722	7"	"	12 "	do.	1 8 0		
723	8"	"	3 "	do.	1 8 0		
724	Nails, Steel, Galvanized, 4", "Cooks"	"	3 "	do.	1 18 0		
	Nails, Wire, Diamond-headed, any lengths ordered—						
725	No. 6	"	36 "	do.	0 15 3	} E. Duckett & Sons	
726	No. 7	"	8 "	do.	0 15 3		
727	No. 8	"	18 "	do.	0 15 9		
728	No. 9	"	5 "	do.	0 16 3		
729	No. 10	"	60 "	do.	0 16 8		
730	No. 12	"	12 "	do.	0 18 3		
731	No. 15	"	2 "	do.	1 4 0		
732	Nails, Wire, Flat Head, 1" x 15 gauge	"	2 "	do.	1 4 0		
733	Pins, Gimp, japanned, $\frac{3}{4}$ "	"	36 lb.	lb.	0 0 6 $\frac{1}{2}$		
	Pins, Panel, Countersunk—						
734	$\frac{1}{2}$ " Countersunk x 17 gauge	"	36 "	do.	0 0 4 $\frac{1}{2}$		
735	$\frac{3}{8}$ " " x 17 gauge	"	24 "	do.	0 0 4 $\frac{1}{2}$		
736	$\frac{3}{8}$ " " x 17 gauge	"	24 "	do.	0 0 4 $\frac{1}{2}$		
737	1" " x 16 gauge	"	120 "	do.	0 0 3 $\frac{1}{2}$		
738	1 $\frac{1}{4}$ " " x 16 gauge	"	260 "	do.	0 0 3 $\frac{1}{2}$		
739	1 $\frac{1}{2}$ " " x 15 gauge	"	160 "	do.	0 0 3 $\frac{1}{2}$		
740	2" " x 14 gauge	"	96 "	do.	0 0 2 $\frac{1}{2}$		
	Tacks, Copper—						
741	$\frac{5}{8}$ "	"	72 "	do.	..	} Nil	
742	$\frac{3}{4}$ "	"	72 "	do.	..		
	Tacks, Cut, blued, fine—						
743	$\frac{1}{2}$ "	"	1,000 "	do.	..		
744	$\frac{3}{8}$ "	"	144 "	do.	..		
745	$\frac{3}{4}$ "	"	200 "	do.	..		
746 to 804	Nil						

STAMPS, ETC.

The measurement of all Stamps shall be the "Die" measurement, and the maximum length of any letter shall not exceed $\frac{1}{2}$ inch.

As regards Items Nos. 813 and 814 the contractor shall not be under obligation to supply more than the estimated requirements.

Item No.	Description	Country of Manufacture.	Estimated Requirements,	Rate per---	Rate.	Name of Contractor.
					£ s. d.	
*805	Faces, Rubber, for Stamps, lettered— " V.R., cancelled "	Vict.	70	each	0 0 1	E. L. Morton Pty. Ltd.
*806	" Week-end "	"	30	do.	0 0 1	
*807	Goods Clean Receipt	"	20	do.	0 0 3	
*808	Goods more or less Receipt	"	20	do.	0 0 3	
	Refacing Rubber Stamps, including supply of new pad, all types—					
809	Oblong, up to 2", as ordered	"	50 lines	line	0 0 10	H. C. Horton
810	" over 2"	"	25 ^{ins. of} line	inch of line	0 0 5	E. L. Morton Pty. Ltd.
811	Circular or oval, and up to 1½", as ordered	"	3	each	0 1 9	
812	" " and over 1½", as ordered	"	8 ins.	½ inch	0 0 7	H. C. Horton
	Stamps, Dating—					
† { 813	No. 1½	Germany	300	each	0 0 7½	Australian Stationery Co.
814	No. 2	"	144	do.	0 0 9¾	
	Stamps, Rubber, oblong, wooden handle, with wooden back, all types—					
† { 815	Up to 2", as ordered	Vict.	200 lines	line	0 0 6	E. L. Morton Pty. Ltd.
816	Over 2", as ordered	"	700 ^{ins. of} line	inch of line	0 0 2	
	Stamps, Rubber, circular or oval, as ordered, wooden handle with wooden backs, all types—					
† { 817	Up to 1½", as ordered	"	24	each	0 2 0	
818	Over 1½", as ordered	"	20 ins.	½ inch	0 0 6½	
	Stamps, Rubber, self-inking—					
† 819	1½" x ¾"	"	6	each	..	Nil.
	Pads, Self-inking, any colour ordered (mostly purple)—					
† { 820	No. 1	N.S.W.	400	do.	0 0 11	Sands & McDougall Pty. Ltd.
821	No. 2	"	12	do.	0 1 3½	
822						
to	Nil					
830						

BOOKS, ETC.

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 Item No. 852, the Contractor shall not be under obligation to supply more than the estimated requirements.

As regards Items Nos. 835, 848, 853, 855, 856, and 857, the rates are based on T.T. Exchange at 30.5 per cent., and should there be any reduction in this rate during the contract, the contract rates shall be reduced to the satisfaction of the Comptroller of Stores, such reduction to apply to any stores ordered after expiration of two months from the published date of altered Exchange rate.

The rates for 831-833 are firm regarding exchange.

	Binders, Instantaneous—					
† 831	Foolscap	U.K.	100	each	0 2 10	Sands & McDougall Pty. Ltd.
† 832	Large Quarto	"	12	do.	0 2 4½	
† 833	Small Quarto	"	12	do.	0 2 4	
	Books—					
* 834	Copying, Crown folio, 500 leaves paged, ¼ basil, with index	..	..	..	..	Nil
* 835	" Crown Folio, 500 leaves not paged, and no index, ¼ basil	Vict. (partly)	60	each	0 8 5	Sands & McDougall Pty. Ltd.
* 836	" Crown folio, 750 leaves paged, ½ basil, with index	..	..	..	..	Nil
* 837	" Crown Folio, 750 leaves not paged, no index, ½ basil	..	..	..	..
* 838	" Large Post folio, 750 leaves paged, ½ basil, with index	..	..	..	..
* 839	" Large Post Folio, 750 leaves not paged, no index, ½ basil	..	..	..	..

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per---	Rate.			Name of Contractor.
					£	s.	d.	
<i>Books, etc.—continued.</i>								
*840	Copying, Large Post Folio, 750 leaves paged, $\frac{1}{2}$ basil	..	..	..	..	..	..	Nil
*841	.. Large Post Folio, 750 leaves not paged, no index, $\frac{1}{2}$ basil	..	..	..	..	..	..
*842	.. Double Crown folio, 750 leaves paged, $\frac{1}{2}$ basil	..	..	..	..	..	..	Redmond Inglis Co. Pty. Ltd.
*843	.. Double Crown Folio, 750 leaves not paged, no index, $\frac{1}{2}$ basil	..	..	..	..	..	..
*844	Foolscap, ruled, $\frac{1}{2}$ cloth, 2 quire	Vict. (partly)	170	each	0	0	11 $\frac{1}{2}$	J. King Pty. Ltd.
*845	.. ruled faint, $\frac{1}{2}$ basil, 2 quire	..	40	do.	0	5	1	
*846	.. .. $\frac{1}{2}$ basil, 3 quire	..	20	do.	0	6	2	
*847	.. .. $\frac{1}{2}$ basil, 4 quire	..	36	do.	0	7	0	
*848	.. .. single or double cash, paged or folioed, as ordered, $\frac{1}{2}$ basil, 4 quire	..	5	do.	0	7	11	
*849	Indices, Foolscap, marble cover, one leaf to a letter	..	84	do.	0	0	5 $\frac{1}{2}$	Spicers & Detmold Ltd.
*850	.. .. hand made, full basil, one leaf to a letter	..	..	..	..	..	..
*850A	.. .. $\frac{1}{2}$ basil, cloth sides turned in, on paper to sample. All tabs reinforced with linen as contract sample, one leaf to a letter	..	..	..	..	..	..	Nil
*851	.. .. hand made, full basil, two leaves to a letter	..	..	..	..	..	..
*851A	.. .. $\frac{1}{2}$ basil, cloth sides turned in, on paper to sample. All tabs reinforced with linen as contract sample, two leaves to a letter	..	..	..	..	..	..	Sands & McDougall Pty. Ltd.
*852	.. .. hand made, full basil, four leaves to a letter	Vict. (partly)	18	do.	0	12	10	
*852A	.. .. $\frac{1}{2}$ basil, cloth sides turned in, on paper to sample. All tabs reinforced with linen as contract sample, four leaves to a letter	..	..	..	..	..	..	Nil
Books—								
*853	Manifold, 5" x 8", 100 leaves, in duplicate, two sheets of single-sided carbon paper to be supplied with each book	Vict. (partly)	40 doz.	dozen	0	10	6	W. J. Carr Pty. Ltd.
*854	.. 14 $\frac{1}{2}$ " x 9", 100 leaves in triplicate, two page index in front, three sheets single-sided carbon paper to be supplied with each book	..	6 "	do.	2	5	0	Spicers & Detmold Ltd.
Books—								
*855	Memo., Foolscap 8vo, 8 sheet, American cloth	Vict. (partly)	5,000	doz.	0	2	3	W. J. Carr Pty. Ltd.
*856	.. Post 8vo, 18 sheet, full rexine	..	260	do.	0	7	3	
*857	.. Post 8vo, 18 sheet, full rexine indexed throughout	..	36	do.	0	10	9	Spicers & Detmold Ltd.
†858	Pocket, Metallic, Smith's 195	..	30	..	..	..	..	Nil
†859	.. .. " " 197	..	Nil	..	..	..	..
†860	.. Penny's No. 136	..	Nil	..	..	..	..
†861	Refills for Penny's Pocket-books, No. 136	..	Nil	..	..	..	..
†862	Shorthand, note	Vict. (partly)	500	doz.	0	2	11	Sands & McDougall Pty. Ltd.
863	Diaries, Australian	..	£90	..	..	..	..

Percentage of Published Price List current during period of this Contract. Less 35 %

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
BOOKS, ETC.—continued.								
†864	Oil Sheets, hand made— Foolscap folio .. .. .	..	Nil	..	..	..	} Nil	
†865	Large Post folio .. .. .	..	20 doz. sheets	..	..	..
866	} Nil.							
to 868								

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

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 2½ 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 or Straw Board (Item No. 897) 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 items 888, 891 to 893 and 898, the contract rates are plus ruling rate of T.T. Exchange on date of delivery on 80 per cent.

†869	Brown Paper, M. F. Finish— Quad. Imperial, Kraft, 58" x 45", 136 lb.	Vict. (partly)	10 reams	ream	2 1 1	} Australian Paper Manufacturers Ltd.
†870	Double Imperial, Kraft, 56 lb. ..	"	5 tons	ton	33 16 8	
†871	Kraft, 18" wide, 28 lb. to roll ..	"	5 rolls	do.	33 16 8	
†872	" in rolls, 30" wide, 80 lb. Double Imperial Substance	"	120 "	do.	33 16 8	
†873	17" x 27", 80 lb., Sulphite	"	20 reams	ream	1 5 0	} Australian Paper Manufacturers Ltd.
†874	Kraft, Double Imperial, 120 lb. ..	"	5 "	do.	1 16 3	
†875	Manila Luggage Checks— Checks, Luggage, Red	Vict.	} 200,000	1,000	0 3 3	} Fahle & Whiting Pty. Ltd.
†876	" " Yellow	"		do.	0 3 3	
†877	" " Green	"		do.	0 3 3	
†878	" " Blue	"		do.	0 3 3	
†879	" " White	"		do.	0 3 3	
†880	" " Brown	"	Nil	} Fahle & Whiting Pty. Ltd.
*881	Checks, Luggage, 6½" x 2½", printed one side (four stereos supplied), two perforations. Washered. In gangs of four. Boxed in 1,000's	"	600,000	do.	0 3 7	
†882	Pasteboards, Surface Boards, &c.— Royal Pasteboards, 20" x 25", 3 sheet, 21 lb.	Vict. (partly)	550 gross	gross	0 9 0	} Australian Paper Manufacturers Ltd.
†883	" " 20" x 25", 6 sheet, 48 lb.	"	80 "	do.	1 1 0	
†884	Royal Surface Boards, 20" x 25"— Green	"	20 "	do.	1 1 8	} Sands & McDougall Pty. Ltd.
†885	Red	"	40 "	do.	1 5 8	
†886	Yellow	"	60 "	do.	0 18 6	
†887	Blue	"	5 "	do.	0 19 6	
†888	System Boards, 25½" x 30½"— Any standard colours ordered, 138 or 140lb. "Glory"	U.K.	25 reams	ream	*4 7 6	Wiggins, Teape, & A. Pirie (Export) Ltd.
†889	Nil	do.	..	} Nil
†890	.. ..	..	Nil	do.	..

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.								
†891	Any standard color ordered, 110 lbs. "Glory"	U.K.	15 reams	ream	*3	8	9	} Wiggins, Teape, & A. Pirie (Export) Ltd.
†892	" " " " 170 lbs. "	"	3 "	do.	*5	6	3	
†893	" " " " 220 lbs. "	"	3 "	do.	*6	17	6	
†894	Strawboard— 25" x 30", 12 oz., Plain	Vict. (partly)	8 cwt.	cwt.	0	18	0	} Australian Paper Manufacturers Ltd.
†895	25" x 30", 24 oz., Plain	"	16 "	do.	1	0	0	
†896	Pulp Board— Royal Pulp Board, four sheet, assorted light tints.	"	500 gross	gross	0	8	6	
†897	Double White Lined Straw board, 16 oz. substance	"	40 cwt.	cwt.	1	1	6	
†898	Boards, Cloth Lined, 20" x 25", any standard colour ordered	U.K.	2 gross	gross	*2	9	10	
†899	Board, Postcard, coated two sides, 22½" x 28½", 43 lb. per gross or nearest weight	"	20 "	do.				Wiggins, Teape, & A. Pirie (Export) Ltd.
	Ticket Boards, 23" x 25"—	Vict. (partly)						Nil
†900	Buff	"	2 tons	ton	32	0	0	} Australian Paper Manufacturers Ltd.
†901	Blue	"	2 "	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	"	1 "	do.	32	0	0	
*906	Manila Ticket Board— 22" or 22½" x 30"	"	6,000 sheets	100 sheets	4	10	0	
	Labels—							
*907	Linen, Large, No. 5	"	10,000	1,000				Nil
*908	" Small, 2½" x 2"	Vict. (partly)	8,500	do.	0	6	0	Spicers & Detmold Ltd.
†909	Manila, No. 5, in gangs of four and boxed	Vict.	300,000	do.	0	2	6	} Fahle & Whiting Pty. Ltd.
†910	" No. 6, in gangs of four and boxed	"	600,000	do.	0	2	10	
†911	" 7" x 3½", in gangs of four and boxed	"	150,000	do.	0	3	10	
†912 to 916	Nil.							Sands & McDougall Pty. Ltd.

SANITARY PAPER (TOILET).

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

Paper, Sanitary, Toilet—								
†917	Ordinary, in 10-oz. rolls, branded "Victorian Railways" on each sheet, perforated, 475 sheets per roll.	Vict. (partly)	760 doz. rolls	gross rolls	1	13	0	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, "Marillo" 240 sheets per roll	"	50 cases	100 rolls				Nil
†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, 950 sheets per refill	N.S.W. (partly)	500 doz. pkts.	gross pkts.	3	9	9	Robertson & Mullens Ltd.

TYPEWRITING AND DUPLICATING MATERIALS, ETC.

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

*As regards Items Nos. 925, 926, 927A, and 928A, the rates quoted are plus ruling rate of

T.T. Exchange on date of delivery on 80 per cent.

†920	Erasers, Circular	Vict. (partly)	200 doz.	doz.	0	1	9½	Barnet Glass Rubber Co. Ltd.
†921	Ink, black, duplicating, 1st quality	"	500 lb.	lb.	0	4	0	S. Cooke Pty. Ltd.
†921A	" " " "	N.S.W. (partly)		do.	0	4	0	} F. T. Wimble & Co. Ltd.
†921B	" " " " super quality	"		do.	0	6	0	

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
TYPEWRITING AND DUPLICATING MATERIALS, ETC.— <i>continued.</i>						
†922	Ribbons, Typewriter, suitable for any Machines, as ordered, including the new model "Ideal" Machine—"Regal" Copying, any colours ordered ..	Vict. (partly)	27 doz.	doz.	0 13 6	} G. B. Fry & Co.
†923	Non-copying Record, Black ..	"	13	do.	0 13 6	
†924	Copying, narrow, bi-coloured, any colours ordered	"	2	do.	0 13 6	
*925	Ribbons, Typewriter, Purple, for "Ditto" machines "Swallow"	U.K.	15	each	*0 3 0	J. Withers & Son Pty. Ltd.
†926	Pads, Ink	U.S.A.	300	do.	*0 0 10	Stott & Hoare Pty. Ltd.
†927	Stencils— Foolscap Folio, Indestructible "Dristen"	Vict. (partly)	} 600 qrs.	quire	0 7 8	Ramsay & Hall Pty. Ltd.
†927A	" " No. 860 "Dermatype"	U.S.A.		do.	*0 15 0	Stott & Hoare Pty. Ltd.
†928	" " Quarto "Dristen"	Vict. (partly)		do.	0 7 8	Ramsay & Hall Pty. Ltd.
†928A	" " No. 861 "Indestructible" Sundries for Model F2B Addressograph machine—	U.S.A.		} 400 "	do.	*0 13 4	Stott & Hoare Pty. Ltd.
*929	Plates, ordered in lots of 1,000 ..	Vict. (partly)	..	1,000	1 15 0	} Spicers & Detmold Ltd.
*929A	" " " 5,000 ..	"	..	do.	1 12 6	
*929B	" " " 10,000 ..	"	..	do.	1 10 0	
*929C	" " " 20,000 ..	"	..	do.	1 7 6	
*929D	" " " 50,000 ..	"	..	do.	1 5 0	
*930	Frames 3,000 ..	..	..	do.	..	Nil
*931	Ribbons, Purple .. .. .	..	72	each	..	Nil
*932	Varnish, Obliterating, for dry stencils, in 1 oz. bots.	Vict.	100 bots.	bottle	0 1 1	} Geo. Raitt & Co. Pty. Ltd.
†933	" " Obliterating, for wet stencils, in 1-oz. bottles	"	80 "	do.	0 1 1	
934 to 938	} Nil.					

PRINTERS' INK, ETC.

The Ink to be supplied under Item No. 939 shall not contain any Resin Oil Varnish.
 The Ink to be supplied under Items Nos. 939 to 949 shall be high grade quality and dense colours.
 The ink to be supplied under Items Nos. 950 to 960 shall be true as regards quality and colour to sample exhibited by corporation.

†939	Ink, Printing, Letterpress— Black	Vict. (partly)	900 lb.	lb.	0 1 10½	S. Cooke Pty. Ltd.
†940	Blue	Nil				Nil
†941	Royal Blue	Vict. (partly)	20 "	do.	0 3 10	} Alex. Cowan & Sons Ltd
†942	Bronze Blue, in 1-lb. tins	"	6 "	do.	0 3 1	
†943	Mid Green	N.S.W. (partly)	5 "	do.	0 3 3	} F. T. Wimble & Co. Ltd.
†944	Emerald Green	"	20 "	do.	0 4 3	
†945	Red	"	200 "	do.	0 2 4	
†946	Mid. Photo Brown	"	20 "	do.	0 3 9	
†947	Violet	Vict. (partly)	10 "	do.	0 4 6	Alex. Cowan & Sons Ltd.
†948	Violet, Copying	N.S.W. (partly)	2 "	do.	0 9 6	} F. T. Wimble & Co. Ltd.
†949	Quick drying, 1st quality Half-tone Black Ink, Flat, Smooth, Ticket Printing, Letterpress—	"	1,000 "	do.	0 3 3	
*950	Blue	"	6 "	do.	0 2 9	} R. Collie & Co. Pty. Ltd.
*951	Blue, Pale	"	60 "	do.	0 2 7	
*952	Brown	"	20 "	do.	0 2 8	
*953	Buff	"	6 "	do.	0 2 10	
*954	Cerise	Vict. (partly)	500 "	do.	0 2 8	
*955	Green	"	400 "	do.	0 2 8	} F. T. Wimble & Co. Ltd.
*956	Maroon	N.S.W. (partly)	10 "	do.	0 2 10	

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per--	Rate.	Name of Contractor.
					£ s. d.	
PRINTERS INK, ETC.— <i>continued.</i>						
*957	Ink, Flat, Smooth, &c.— <i>continued.</i> Orange	Vict. (partly)	480 lb.	lb.	0 2 8	R. Collie & Co. Pty. Ltd.
*958	Red	N.S.W. (partly)	80 "	do.	0 3 0	F. T. Wimble & Co. Ltd.
*959	Violet	Vict. (partly)	100 "	do.	0 2 9	R. Collie & Co. Pty. Ltd.
*960	Yellow	N.S.W. (partly)	6 "	do.	0 2 8	F. T. Wimble & Co. Ltd.
†961	Ink, Printing, for posters— Green, permanent	Vict. (partly)	10 "	do.	0 1 6	} R. Collie & Co. Pty. Ltd.
†962	Blue	"	10 "	do.	0 1 6	
†963	Red	N.S.W. (partly)	60 "	do.	0 1 9	F. T. Wimble & Co. Ltd.
†964	Glue, Rubberised or Flexible	Vict.	180 "	do.	0 0 9	R. Collie & Co. Pty. Ltd.
†965	Dryers, Cobalt Elastic or other approved quality	"	20 "	do.	0 5 0	S. Cooke Pty. Ltd.
†966	Dryers, Paste	Nil				Nil
†967	Solution, Lye, in 1-gallon jars	Vict.	8 gals.	gallon	0 3 0	R. Collie & Co. Pty. Ltd.
†968	" Roller Wash, in 4-gallon tins	N.S.W.	200 "	do.	0 2 8	F. T. Wimble & Co. Ltd
†969	Staples, for Bostitch or Star Machine, as ordered		120,000	1,000	..	Nil
†970	Varnish, Letterpress, Lowering	N.S.W.	20 gals.	gallon	0 7 3	F. T. Wimble & Co. Ltd.
†971	Wire, Stapling, 4 lb. to coil, 22-gauge	N.S.W. & Vict.	300 lb.	lb.	0 0 7½	H. Drake & Co.
†972	" " " copper coated— 19-gauge	U.K.	100 "	do.	0 0 5	Alex. Cowan & Sons Ltd.
†973	" " " 21-gauge	N.S.W. & Vict.	14 "	do.	0 0 7½	H. Drake & Co.
*974	Manilla—Oiled, Cylinder, 45" wide, in rolls of approximately 100 lb.					Nil
975 to 978						Nil

CONDUIT PIPE AND FITTINGS.

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

Name of Manufacturer—Item 979, and 983 to 985—Amalgamated Conduits Ltd.

" " Items 1001-1003, 1007-1009, 1019, 1020—Thompson and Leangall Ltd.

* Plus ruling rate of T.T. Exchange on date of delivery on 80 per cent.

Should there be any fall in the ruling rate of T.T. Exchange (30½ per cent.) the contract rates, excepting Items Nos. 983 to 985, 990, 995, 998, 1013 and 1033, shall be subject to adjustment to the satisfaction of the Comptroller of Stores, the amended rates to apply to any stores ordered after expiration of two months from date of publication of such reduced Exchange rates.

†979	Pipe, Conduit, Plain, enamelled— ¾"	Vict. (partly)	18,000 feet	100 ft.	0 5 11½	} W. G. Watson & Co. Ltd.
†980	¾"	"	Nil	..	..
†981	1"	"	Nil	..	..
†982	1½"	"	Nil	..	..
†983	Pipe, Conduit, Screwed, enamelled— ¾"	Vict. (partly)	2,500 "	100 ft.	0 11 7	} Remington's Pty. Ltd.
†984	¾"	"	19,000 "	do.	0 17 10	
†985	1"	"	1,700 "	do.	1 8 2	
†986	1½"	"	2,600 "	..	..
†987	1½"	"	Nil	..	..
†988	2"	"	850 "	Nil
†989	Pipe, Conduit, Welded, unenamelled, ¾"	Vict. (partly)	2,000 "	100 ft.	0 15 0	Siemen's (Aust.) Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
CONDUIT PIPE AND FITTINGS—continued.								
†990	Fittings, Conduit, Plain— Elbows, 3/8" " Ring Grip"	Vict.	240 doz.	doz.	0	1	9.4	Remington's Pty. Ltd.
991	" " " " " " " "	(partly)	Nil	..	..	..	..	} Nil
992	" " " " " " " "	..	Nil	..	..	..	..
993	" " " " " " " "	..	Nil	..	..	..	..
994	Tees, 1/2" " " " " " " "	..	Nil	..	..	..	..
†995	" " " " " " " " " Ring Grip"	Vict.	96 doz.	doz.	0	2	4.4	Remington's Pty. Ltd.
996	" " " " " " " " " "	(partly)	Nil	..	..	..	..	} Nil
997	Sleeves, 3/8" " " " " " " "	..	Nil	..	..	..	..
†998	" " " " " " " " " Ring Grip"	Vict.	24 doz.	doz.	0	1	6.4	Remington's Pty. Ltd.
999	" " " " " " " " " "	(partly)	Nil	..	..	..	..	} Nil
1000	Fittings, Conduit, Screwed, T. & S.— Bends, 5/8" " " " " " " "	..	Nil	..	..	..	..
1001	" " " " " " " " " "	..	48 doz.	doz.	0	4	10	} Noyes Bros. (Melb.) Pty. Ltd.
†1002	" " " " " " " " " "	(partly)	18 "	do.	0	7	8 1/2	
1003	" " " " " " " " " "	"	3 "	do.	0	11	6	
1004	" " " " " " " " " "	"	Nil	..	..	..	..
1005	" " " " " " " " " "	"	Nil	..	..	..	..	} Nil
†1005A	Bushes, reducing, 3/4" to 5/8"	..	Nil	..	..	..	..
†1006	Elbows, 3/8" " " " " " " "	N.S.W.	24 doz.	doz.	0	2	2	Associated General Elec. Supplies Co. Ltd.
1007	" " " " " " " " " T. & S.	(partly)	108 "	doz.	0	2	7 1/2	} Noyes Bros. (Melb.) Pty.
†1008	" " " " " " " " " "	N.S.W.	12 "	do.	0	4	2 1/2	
1009	" " " " " " " " " "	(partly)	12 "	do.	0	7	10	} Nil
1010	" " " " " " " " " "	"	Nil	..	..	..	..
1011	" " " " " " " " " "	"	Nil	..	..	..	..
1012	" " " " " " " " " Inspection	"	Nil	..	..	..	..
†1013	" " " " " " " " " "	U.K.	96 doz.	doz.	*0	11	0	Noyes Bros. (Melb.) Pty. Ltd.
1014	" " " " " " " " " "	..	Nil	..	..	..	..	} Nil
1015	" " " " " " " " " "	..	Nil	..	..	..	..
1016	Sleeves, 3/8" " " " " " " "	..	Nil	..	..	..	..	} Associated General Elec. Supplies Co. Ltd.
†1017	" " " " " " " " " "	N.S.W.	60 doz.	doz.	0	2	1	
101	" " " " " " " " " "	(partly)	Nil	..	..	..	..	} Nil
†1019	" " " " " " " " " "	N.S.W.	12 doz.	doz.	0	3	9 1/2	
†1020	" " " " " " " " " "	(partly)	6 "	do.	0	5	8 1/2	} Noyes Bros. (Melb.) Pty. Ltd.
1021	" " " " " " " " " "	"	Nil	..	..	..	..
1022	Tees, 5/8" " " " " " " "	..	Nil	..	..	..	..	} Nil
†1023	" " " " " " " " " "	"	Nil	..	..	..	..
1024	" " " " " " " " " "	N.S.W.	6 doz.	doz.	0	3	8	Associated General Elec. Supplies Co. Ltd.
1025	" " " " " " " " " "	(partly)	Nil	..	..	..	..	} Nil
1026	" " " " " " " " " "	"	Nil	..	..	..	..
1027	" " " " " " " " " "	..	Nil	..	..	..	..	} Nil
†1028	Boxes, 1/2", 3 way, Screwed	Vict.	150	doz.	0	5	11	
1028A	" " " " " " " " " Straight through, plain	(partly)	150	each	0	0	6 1/2	W. G. Watson & Co. Ltd. Lawrence & Hanson Elec. Co. Ltd.
†1029	Crampets, 5/8" " " " " " " "	N.S.W.	Nil	..	..	..	..	} Nil
†1030	" " " " " " " " " "	(partly)	Nil	..	..	..	..
†1031	Saddles, 1/2" " " " " " " "	..	Nil	..	..	..	..	} Nil
†1032	" " " " " " " " " "	"	Nil	..	..	..	..
†1033	" " " " " " " " " " Ring Grip"	Vict.	576 doz.	doz.	0	0	0 1/2	British General Elec. Co. Ltd.
†1034	" " " " " " " " " "	(partly)	144 "	gross	0	1	1 1/2	} Remington's Pty. Ltd.
1034	" " " " " " " " " "	"	18 "	doz.	0	0	2	
†1035	" " " " " " " " " "	..	18 "	gross	0	3	10	British General Elec. Co. Ltd. Lawrence & Hanson Elec. Co. Ltd.
†1036	" " " " " " " " " "	..	Nil	..	..	..	..	} Nil
†1037	" " " " " " " " " "	Vict.	12 doz.	gross.	0	6	10	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
CONDUIT PIPE AND FITTINGS—continued.								
	Fittings, Conduit, Screwed— <i>continued.</i>							
1038	Lock Nuts, $\frac{3}{8}$ "	N.S.W. (partly)	18 doz.	doz.	0	1	2	Associated General Elec. Supplies Co. Ltd.
1039	" $\frac{1}{2}$ "	"	36 "	do.	0	1	3	
1040	" 1"	"	30 "	do.	0	1	5½	
1041	" 1½"	"	18 "	do.	0	2	2	
1042	" 1½"	"	Nil	"	"	"	"	Nil
1043	" 2"	"	Nil	"	"	"	"	
1044 to 1050	Nil.							

ELECTRIC CABLES AND WIRES.

SPECIFICATION FOR COPPER TAPES AND BINDERS.—Items Nos. 1072 and 1073.

The tapes and binders shall be made of pure soft electrolytic copper wire of good quality.

The tapes and binders shall be of the dimensions given in Tables 1 and 2. The binders shall be flattened uniformly at each end.

After rolling, both tapes and binders shall be re-annealed soft and shall be free from scale. The ends of both tapes and binders shall be smooth and free from burrs.

The elongation test will be made by gripping a sample in an elongation machine and steadily elongating the sample until it breaks. The duration of the test shall be approximately 30 seconds. The elongation shall be measured after fracture, and shall comply with the figures given in Tables 1 and 2.

The tapes and binders shall be supplied in separate bundles of 100 each.

TABLE 1.
TAPES.—Item No. 1072.

1.	2.	3.	4.	5.	6.	7.
Designation.	Approximate Weight per Mile of Wire used for Manufacture.	Length.	Width.	Thickness.	Minimum Elongation per cent. on 5 inches.	Approximate Number to the pound (lb.).
Tapes, Copper, No. 3	lb. 150	inch. 9	inch. $\frac{1}{4}$	inch. 0.026	25	53

TABLE 2.
BINDERS.—Item No. 1073.

1.	2.	3.	4.	5.	6.	7.	8.
Designation.	Length.	Length of Middle Portion.	Diameter of Middle Portion Variation not to Exceed 0.0002 inch.	Width of Flats.	Thickness of Flats.	Minimum Elongation per cent. on the Middle 10 in.	Approximate Number to the pound (lb.).
Binder, Copper, No. 3	inches. $20\frac{1}{4}$	inches. 7	inch. 0.112	inch. 3/16	inch. 0.056	20	17

SPECIFICATION FOR STRANDED COPPER CABLE, DROPPER WIRE, AND CONTACT WIRE.—
Items Nos. 1051 to 1063.

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 7/0.036 (Item 1051) and 19/0.072 (Item 1057). 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. 1051 to 1061 and 1063, and the B.E.S.A. Specification No. 125/1930 shall apply to item 1062.

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. 1051 to 1063.

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.

ELECTRIC CABLES AND WIRES—*continued.*

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. 1062 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.

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.

H. 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 of 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 $\frac{1}{2}$ 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 JOINTING SLEEVES.—*Items Nos. 1070 and 1071.*

The sleeves shall be made of pure soft electrolytic copper.

The sleeves shall conform to the particulars given in the Table.

The sleeves shall be solid drawn, annealed, clean and bright inside, and the ends shall be free from burrs.

Two copper wires of the maximum size shown in Column 2 of the Table will be inserted through the whole length of the sleeve. The sleeve and wire will then be fixed in two close-fitting joining clamps $\frac{3}{8}$ inch wide, the outer edges of which shall be flush with the ends of the sleeve. These clamps will be revolved in opposite directions, and the sleeves shall withstand without cracking or breaking the specified number of twists shown in Column 6 of the Table.

ELECTRIC CABLES AND WIRES—continued.

Specification for Copper Jointing Sleeves—continued.

The Contractor, if required, shall submit not less than ten sleeves of each size for approval before the bulk of the order is proceeded with.

The sleeves shall be supplied neatly packed in boxes, each containing 100 sleeves. Each box shall be labelled to show the quantity and description of the contents.

TABLE.

1. Designation.	2.		3. Length of Sleeve.	4. Thickness of Metal.	5. Minimum Internal Dimensions.		6. No of Twists.
	Diameter of Wire for which Sleeve is required.				Major Axis.	Minor Axis.	
	Minimum.	Maximum.					
Sleeves, Copper— No. 5 (long) for 200-lb. Wire ..	inch. ·111	inch. ·113	inch. 5	inch. ·026	inch. ·234	inch. ·116	6
No. 6 (long) 150-lb. Wire ..	·096	·098	4½	·022	·204	·101	6

The tests set out in the Australian Commonwealth Engineering Standards Association Specification Nos. C.3-11, 1925, will be carried out by the Corporation at its Testing Laboratory in Melbourne, and the Contractor will be notified in sufficient time of the intention to carry out such test to enable him or his representative to be present if he so desire.

SPECIFICATION FOR COPPER CABLE.—Items Nos. 1065 to 1067.

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. 1068 and 1069.

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 shall be packed in coils of 75 to 140 lb.

SPECIFICATIONS FOR RESISTANCE WIRES.—Items Nos. 1074 to 1074E.

Nickel Copper Alloys—

- (1) Trade name of product—"Ferry."
- (2) Specific Resistance 48 microhms per Cm².
- (3) Temperature Co-efficient 0.000022.

Nickel Chromium Alloys.—Items Nos. 1075 to 1075I.

All Nickel Chromium Wire shall be suitable for continuous service at 1100 degrees C.

- (1) Trade name of product—"Brightray."
- (2) Specific Resistance 103 microhms per Cm².
- (3) Temperature Co-efficient 20° to 500° = 0.00009792.

†As regards Items 1051-1071, 1073, and 1097-1106 the rates are based on the price of £49 8s. per ton, which is the equivalent in Australian currency of the London Metal Exchange price in English currency for E.C. Wire bars on 24th July, 1931. The rates are to be varied up or down by one-tenth of a penny per lb. of copper for each complete 20s. or part thereof by which the price in Australian currency of E.C. Wire bars published in the *Argus* on the date of receipt of order is greater than £49 19s. 11d. or less than £49 per ton respectively. If no price of wire bars is published on any day, the price last paid earlier shall apply. In the event of a dispute concerning the published price of wire bars the figures advised by the Australian Mines and Metal 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.

The equivalent in Australian currency of the London Metal Exchange prices of Electrolytic Copper wire bars is the London Metal Exchange price as published in the morning daily press in the State Capitals, increased by the same percentage as is quoted by the associated banks as their buying rate for T.T. on London.

If no buying rate is quoted by the associated banks for T.T. on London on any day, the rate last published earlier shall apply. In the case of a dispute concerning the published buying rate for T.T. on London, the figures advised by the associated banks as last published by them prior to the day of receipt of the order shall be mutually accepted.

ELECTRIC CABLES AND WIRES—continued.

Specification for Resistance Wires—continued.

†As regards Item No. 1072, the Contract rate is based on Elect. Copper Wire bars at £37 10s. per ton, the price to alter by one-tenth of a penny per lb. for every alteration of 17s. 6d. or part thereof in the price of Electrolytic Copper Wire bars. The rate to be adjusted on the London published price of Electrolytic Wire bars on the date each order is received. The rate to also alter to cover T.T. Exchange on the rise or fall in the published London price of Electrolytic Wire bars on the date of receipt of order.

†As regards Item No. 1083, the Contract rate is based on Electrolytic Copper Wire bars on any price between £35 and £50 per ton and any variation above or below these limits will vary the price up or down by 1d. per lb. for each £10 variation in the market price of Electrolytic Copper Wire bars, on the date of receipt of order.

†As regards Items Nos. 1084–1088 and 1107, the rates are based on wire bars at £37 10s. per ton, and are subject to a variation of .15 of a penny per lb. for every 20s. rise or fall in the London market prices of Electrolytic Copper Wire bars as published in the *Argus* on the date of receipt of order. If no price is published on a particular day the price last previously published shall prevail.

* As regards Items Nos. 1074–1089, 1091, 1093, 1107, 1113, and 1114, the rates quoted are plus ruling rate of T.T. Exchange on date of delivery on 80 per cent.

As regards Items Nos. 1068 and 1069, the minimum order that will be accepted at the rates shown is 2 tons. The wire is packed in coils of 75 to 140 lb.

As regards Items Nos. 1070 and 1071, the rates are for a minimum of 100 sleeves.

As regards Items Nos. 1051–1067 and 1073 the rates 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 of these standards is given below—Special cutting always entails delay.

The rates quoted for Items Nos. 1097–1106 are for not less than 10 lb. of one size at a time, and the standard packages are also shown hereunder.

Schedule of Standard Packages.

Item No.	Size.	Standard Packing.		Weight per 1,000 yards.
		Length.	Net Weight.	
		yards.	lb.	lb.
1051	7/-036	5,810	488	..
1052	7/-048	3,240	488	..
1053	7/-064	3,640	976	..
1054	7/-080	2,330	976	..
1055	7/-097	1,585	976	..
1056	7/-118	1,070	976	..
1057	19/-072	2,910	2,656	912
1058	19/-083	1,760	2,656	..
1059	19/-101	1,460	2,656	1,793
1060	37/-093	865	2,580	2,963
1061	61/-103	690	4,175	5,994
1062 .. ..	.193	as specified	..	340
1063 .. ..	.25		..	2,800
1065	91/-044	1,925	3,170	1,650
1067	37/-064	1,820	2,580	1,403
1068	150 lb.	coils of 75 lb. to 140 lb.	}	85
1069	200 lb.			103
1097	8 s.w.g.	..	112	..
1898	10 s.w.g.	..	}	56
to	to			to
1106	18 s.w.g.	..	28	..

Time for delivery—

As regards Items Nos. 1051 to 1071, three to four weeks is to be allowed for delivery.

Names of Manufacturers—

Items Nos. 1051 to 1071, 1073, 1097 to 1106—Metal Manufacturers Ltd., New South Wales.

Items Nos. 1074 to 1082—H. Wiggin and Co., England.

Item No. 1083—British Insulated Cables, England.

Items Nos. 1084 to 1088—London Elec. Wire Co. and Smith's Ltd., England.

Items Nos. 1089 and 1093—Pirelli—General Cable Works.

As regards Items Nos. 1051 to 1069, 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 Nos. 1051 to 1063, 1068 and 1069, 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 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 order. A copy of this schedule has already been forwarded.

ELECTRIC CABLES AND WIRES—continued.
Specification for Resistance Wires—continued.

Owing to the uncertainty of business conditions, the Associated General Electric Supplies Co. and the British Insulated Cables Ltd. have made it a condition that each order is subject to confirmation after the order is received and before it is accepted.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.	
					£	s.	d.		
	Cable, Hard-drawn, Stranded Copper—								
1051	7/·036, Area 0·007 sq. in.	N.S.W.	24,000 feet	lb.	†0	1	0·1	Associated General Elec. Supplies Co. Ltd.	
1052	7/·048, Area 0·0125 sq. in.	"	17,000 "	do.	†0	0	11·7		
1053	7/·064, Area 0·0225 sq. in.	"	113,000 "	do.	†0	0	11·4		
1054	7/·080, Area 0·035 sq. in.	"	4,000 "	do.	†0	0	11·4		
1055	7/·097, Area 0·05 sq. in.	"	80,000 "	do.	†0	0	11·4		
1056	7/·118, Area 0·075 sq. in.	"	1,000 "	do.	†0	0	11·4		
1057	19/·072, Area 0·075 sq. in.	"	1,000 "	do.	†0	0	11·4		
1058	19/·083, Area 0·10 sq. in.	"	10,000 "	do.	†0	0	11·4	British Insulated Cables Ltd.	
1059	19/·101, Area 0·15	"	50,000 "	do.	†0	0	11·4	Associated General Elec. Supplies Co. Ltd.	
1060	37/·093, Area 0·25 sq. in.	"	15,000 "	do.	†0	0	11·4		
1061	61/·103, Area 0·5 sq. in.	"	6,000 "	do.	†0	0	11·4	British Insulated Cables Ltd.	
1062	Wire, 0·193 Hard Drawn Copper	"	34,000 "	do.	†0	0	11·4		
1063	Wire, 0·25 sq. in. Contact, Hard Drawn Copper (Drawing F·1460)	"	12,000 "	do.	†0	0	11·4		
*1064	Cable, copper, 91/·044 annealed, flexible, area 0·14 sq. in.	"	Nil	1,000 yards				Nil	
1065	Cable, copper, 91/·044 annealed, flexible, area 0·14 sq. in.	"	10,000 yds.	lb.	†0	1	3·4	British Insulated Cables Ltd.	
1066	Cable, copper, 91/·059 annealed, flexible, area 0·25 sq. in.	"	Nil	do.				Nil	
1067	Cable, copper, 37/·064 annealed, flexible, area 0·12 sq. in.	"	750 "	do.	†0	1	0·4	British Insulated Cables Ltd.	
1068	Wire, copper, to Specification, 150 lb. per mile	"	5 tons	ton	†91	18	0		
1069	Wire, copper, to Specification, 200 lb. per mile	"	10 "	do.	†91	8	0		
1070	Sleeves, Jointing, Copper, to Specification— No. 5 (Long)	"	3,000	1,000	†7	10	0		
1071	No. 6 (Long)	"	3,000	do.	†6	0	0		
*1072	Tapes, Copper, No. 3, to Specification	"	750 lb.	lb.	†0	1	3·2	National Wire Products of Aust. Ltd.	
*1073	Binders, Copper, No. 3, to Specification	"	1,000 "	do.	†0	1	4·4	British Insulated Cables Ltd.	
	Wire, Nickel, Copper Alloy, "Ferry"—								
1074	14 s.w.g.	U.K.	10 "	do.	*0	2	7	Johnson and Phillips Ltd.	
1074A	16 "			do.	*0	2	8		
1074B	18 "			do.	*0	2	10		
1074C	24 "			do.	*0	3	4		
1074D	26 "			do.	*0	3	10		
1074E	28 "			do.	*0	4	3		
	Wire, Nickel, Chromium, "Brightway"—								
1075	12 s.w.g.	"	25 "	do.	*0	10	2		
1075A	13 "			do.	*0	10	2		
1075B	14 "			do.	*0	10	7		
1075C	16 "			do.	*0	10	9		
1075D	20 "			do.	*0	11	6,		
1075E	22 "			do.	*0	13	3		
1075F	23 "			do.	*0	13	11		
1075G	26 "			do.	*0	15	8		
1075H	27 "			do.	*0	16	4		
1075I	29 "			do.	*0	17	8		
	Strip, Nickel, Chromium, "Brightway"—								
1076	·003 x 1/32"	"	10 "	do.	*1	8	3		
1077	·004 x 1/32"			do.	*1	4	9		
1078	·005 x 1/32"			do.	*1	3	0		
1079	·006 x 1/32"			do.	*1	1	2		
1080	·007 x 1/32"			do.	*1	0	6		
1081	·012 x 1/32"			do.	*0	19	5		
1082	·006 x 1/16"			do.	*1	0	6		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ELECTRIC CABLES AND WIRES—continued.						
1083	Wire, copper, tinned (fuse)— 16 s.w.g.	U.K.	3 lb.	lb.	+*0 1 3	Associated General Elec. Supplies Co. Ltd.
1084	18 s.w.g.	"	20 "	do.	+*0 1 5·3	
1085	20 s.w.g.	"	20 "	do.	+*0 1 6·4	Warburton Franki (Melb.) Ltd.
1086	22 s.w.g.	"	10 "	do.	+*0 1 6·8	
1086A	24 s.w.g.	"	6 "	do.	+*0 1 7·7	
1087	26 s.w.g.	"	5 "	do.	+*0 1 8·6	
1088	28 s.w.g.	"	1 "	do.	+*0 2 0·1	
1089	29 s.w.g.	"	2 "	do.	*0 2 3	British General Electric Co. Ltd.
1090	30 s.w.g.	Nil	Nil
1091	32 s.w.g.	U.K.	3 lbs.	lb.	*0 2 2	Johnson and Phillips Ltd.
1092	33 s.w.g.	Nil	Nil
1093	36 s.w.g.	U.K.	1 lb.	lb.	*0 2 9	British General Electric Co. Ltd.
1094	38 s.w.g.	Nil	..	do.	..	} Nil
1095	40 s.w.g.	Nil	..	do.	..	
†1096	Wire, copper, enamelled, 24 s.w.g.	Nil	..	dd.	..	
Wire, copper, D.C.C.						
1097	8 s.w.g.	N.S.W.	1,000 lbs.	lb.	+0 1 1·9	Associated General Elec. Supplies Co. Ltd.
1098	10 s.w.g.	"	15 "	do.	+0 1 2·4	
1099	11 s.w.g.	"	15 "	do.	+0 1 2·4	} Nil
1100	12 s.w.g.	"	5 "	do.	+0 1 2·4	
1101	13 s.w.g.	Nil	Associated General Elec. Supplies Co. Ltd.
1102	14 s.w.g.	N.S.W.	50 lb.	lb.	+0 1 2·9	
1103	15 s.w.g.	"	50 "	do.	+0 1 2·9	
1104	16 s.w.g.	"	100 "	do.	+0 1 4·9	
1105	17 s.w.g.	"	100 "	do.	+0 1 6·4	
1106	18 s.w.g.	"	60 "	do.	+0 1 8·9	
1107	20 s.w.g., on 14 lb. drum	U.K.	280 "	do.	+*0 1 4·7		Warburton Franki (Melb.) Ltd.
1108	27 s.w.g.	Nil	} Nil
1109	28 s.w.g.	Nil	..	..	..
1110	Cable, tinned, copper, 26 pairs, dia. of each strand .0235 min., .024 max., enamelled, two lap of silk and one lap of coloured beeswaxed cotton, the whole braided suitable for indoors	N.S.W.	500 yards	1,000 yds.	..	} Nil
1111	Cable, copper, tinned, 15 pairs, dia. of each strand .0235 min., .024 max., enamelled, two lap of silk and one lap of coloured beeswaxed cotton, the whole braided suitable for indoors	..	100 "	..	..
1112	Cable, tinned, copper, 1 pair, dia. of each strand .0235 min., .024 max., enamelled, cotton (beeswaxed) and lead covered	..	500 "	..	..
Wires, copper, flexible—						
†1113	23/·0076 twin, office	U.K.	3,200 "	100 yds.	*0 16 1	} O. H. O'Brien
1114	40/·0076 twin, office	"	500 "	"	*1 3 0	
†1115	40/·0076 twin, asbestos covered	"	900 "	..	..
†1116	40/·0076 three core, asbestos covered	"	100 "	..	..
†1117	23/·0076, twin, workshop	Nil	} Nil
1118	40/·0076, twin, workshop . . . .	..	1,200 yards	..	..
†1119	11/·012, 3 core, cab tyre . . . .	..	500 "	..	..
1120	16/·012, 3 core, cab tyre . . . .	..	580 lb.	..	..
†1121	11/·012, twin, cab tyre . . . .	..	1,000 "	..	..
1122	16/·012, twin, cab tyre . . . .	..	1,500 "	..	..
1123 to 1130	Nil

ELECTRICAL FITTINGS.

SPECIFICATION FOR SHEET MICA.—Item No. 1247.

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.

SPECIFICATION FOR PORCELAIN INSULATORS.—Items Nos. 1222 and 1223.

The term "parcel" shall mean any quantity of finished insulators presented for examination and test at any one time.

The drawing referred to in this Contract is Victorian Railways A.405.

The insulators shall be made of highly vitrified glazed porcelain.

The insulators shall be glazed all over excepting the thread and the head or the edge of the outer petticoat, which may be left unglazed.

The insulators shall be in accordance with the drawing referred to, and this drawing shall form a part of this Specification. The Receiving Officer shall have the right to measure any number of insulators in any parcel.

The insulators and the glazing shall be free from cracks, blow holes, nodules, excrescences, or other defects. They shall be uniform in texture throughout, non-porous, with smooth exterior and interior surfaces, and shall be finished in accordance with the best commercial practice.

The thread shall be in accordance with the drawing referred to, well centred, smooth, of uniform pitch, and such that the standard gauge shown in the drawing can be easily screwed into the insulator up to the crown. When in position on the specified standard gauge the insulator shall not be noticeably loose nor show a perceptible amount of play or rocking.

Any number of insulators from any parcel may be tested in the following manner:—

The insulator shall be inverted and immersed in acidulated water to within a quarter of an inch of the lip of the outer petticoat, and filled with acidulated water to within a quarter of an inch on both sides of the lip of the inner petticoat.

While so immersed, and after 72 hours' immersion, each insulator shall be tested with an electro-motive force of 400 volts, and shall have an insulation resistance of 100,000 megohms in the case of No. 1 insulator and 10,000 megohms in the case of No. 2 insulator when tested (a) across the inner petticoat, and (b) across the outer petticoat respectively.

The Receiving Officer may test any number of insulators from any parcel. If after the examination and testing of any parcel of insulators, five (5) per centum out of any such insulators do not meet the requirements of this Specification, the whole 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.

The insulators shall be delivered securely and properly packed in good, strong cases, each containing 100 insulators. Each case shall be branded with the Order No. and contents.

Brooks, Robinson, and Co., British General Electric Co. Ltd., and Lawrence and Hanson to be allowed time to import stocks to meet initial orders for imported material.

As regards Items 1192 to 1196, a Statutory Declaration to be furnished by the Corporation that the material supplied is used in the manufacture of Electrical appliances.

* As regards Items 1144 to 1149, 1178, 1184, 1185, 1187, 1188, 1190, 1192 to 1197, 1208 to 1210, 1232 to 1245, 1253, 1259, 1267, and 1281, the Contract rates are plus T.T. Exchange on date of delivery on 80 per cent.

† As regards Items 1173 and 1276, the Contract rates include T.T. Exchange at 30½ per cent. and will be adjusted in the event of there being any variation in the T.T. rate of Exchange on the date of delivery, such adjustment to be to the satisfaction of the Comptroller of Stores.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
†1131	Adaptors, Bayonet .. .. .	.. .. .	200	.. .. .	.. .. .	.. .. .	Nil
†1132	Batteries, Torch, dry, cylindrical, single cell, "Ever Ready"	N.S.W. (partly)	12,000	each	0	0 4	Brooks, Robinson, & Co. Ltd.	
†1133	Blocks, base, wood, 9" x 3" .. .. .	.. .. .	144	.. .. .	.. .. .	.. .. .	Nil
†1134	" " " 6" x 3"	Vict.	500	dozen	0	2 6	Lawrence and Hanson Elec. Co. Ltd.	
†1135	" " " 3" dia.	"	1,400	do.	0	0 10½		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
ELECTRICAL FITTINGS—continued.							
*1136	Ebonite Accumulator Accessories—		200 doz.	..	..	Nil
	Ebonite, Fork Separators .. ..	..	72	dozen	0 2 7½	Barnet Glass Rubber Co. Ltd.
*1137	Ebonite Cell-testing Tubes	Vict.	108	do.	0 7 0	Coates & Co. Pty. Ltd.	
*1138	Accumulator Floats, "J. Stone & Co." ..	N.S.W.	500	do.	0 5 8	Dunlop Perdriau Rubber Co. Ltd.	
*1139	Ebonite Side Sheets—						
	11-pt., 11 1/8" x 5 3/8" x 19 b.w.g. ..	Vict.	Nil	..	..	} Nil
*1140	15-pt., 11 1/2" x 7 3/4" x 19 b.w.g. ..	..	Nil	..	..
*1141	21-pt., 11 1/2" x 11" x 19 b.w.g. ..	..	200 doz.	..	..	} Nil
	Ebonite Bottom Sheets—						
*1142	11-pt., 5 3/4" x 5 3/4" x 19 b.w.g. ..	..	12	do.	..	} Nil
*1143	15-pt., 7 3/8" x 5 1/2" x 19 b.w.g. ..	..	10 sq. ft.	sq. ft.	*0 1 3 3/4	
†1144	Ebonite Sheets, 1/8" thick	U.K.	10	sq. ft.	*0 1 3 3/4	Mica & Insulating Supplies Co.	
	Ebonite Rod—						
{1145	3/8" .. ..	..	30 lin. ft.	lin. ft.	*0 0 2	} Siemens (Aust.) Pty. Ltd.
{1146	1/2" .. ..	..	12	do.	*0 0 3	
†1147	3/4" .. ..	..	10	do.	*0 0 7	
{1148	1" .. ..	..	6	do.	*0 1 0	
{1149	1 1/2" .. ..	..	16	do.	*0 1 6	
1150	Electrolyte, dry, for Edison Battery ..	..	10 cwt.	..	..	} Nil
1151	Electrolyte, dry, for Ni + Fe Battery ..	..	6	do.	..	
	Fibre Sheet, Red, 3' x 2'—						
{1152	3/4" thick .. ..	..	1 sheet	..	..	} Nil
†1153	1/2" .. ..	..	1	do.	..	
{1154	1" .. ..	..	50 lb.	..	..
	Fibre Sheet, grey—						
{1155	1/8" to 3/8" thick .. ..	..	10	do.	..	} Nil
†1156	1/2" thick .. ..	..	45	do.	..	
{1157	3/4" .. ..	..	40	do.	..	
	Fibre Rod, red—						
{1158	1/4" round .. ..	..	} 35 lb.	..	..	} Nil
{1159	3/8"
{1160	1/2"
†1161	3/4"
{1162	1"
{1163	1 1/4"
{1164	1 1/2"
{1165	2" .. ..	..	..	..	..
	Fuses, Ironclad—						
†1166	Nil .. ..	..	..	..	..	} Nil
†1167	15 amp., 500 volt	N.S.W. (partly)	100	each	0 2 5		
†1168	30 amp., 500 volt .. ..	..	50	..	..
†1169	60 amp., 500 volt .. ..	..	25	..	..
	Fuses, Factory Type, with bases, back connected—						
†1170	5 amp., suitable for 250 volt, "Tombs & Howcroft" ..	Vict.	360	each	0 0 9 3/8	W. G. Watson & Co. Ltd.	
†1171	15 amp., suitable for 500 volt .. ..	..	240	..	..	Nil
†1172	30 amp., suitable for 500 volt, "Tombs & Howcroft" ..	Vict.	50	each	0 3 3	W. G. Watson & Co. Ltd.	
†1173	60 amp., suitable for 500 volt (without studs)	U.K.	50	..	†0 5 0	Assoc. General Elec. Supplies Co. Ltd.	
	Fuses, Cartridge—						
†1174	15 amp., 250 volt., Zed. .. ..	..	250	..	..	} Nil
†1175	Glasses for Bulk Head Fittings .. ..	..	72	..	..
*1176	Holders, Goliath, for series lighting ..	..	Nil	..	..
†1177	Holders, E.S. batten .. ..	..	50	..	..	} Nil
†1178	Holders, E.S., for Benjamin Reflectors, No. 6675, complete with flanges, No. 6620 ..	U.K.	24	each	*0 5 6		
*1179	Holders, E.S., weatherproof .. ..	..	Nil	..	..	Nil
†1180	Holders, Bayonet, portable hand lamp ..	Vict. (partly)	50	each	0 5 9	Noyes Bros. (Melb.) Pty. Ltd.	
†1181	Holders, Bayonet, batten, with shade carrier ring ..	..	Nil	..	..	} Nil
†1182	Holders, Bayonet, batten, with shade carrier ring, Bakelite ..	..	120	..	..

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Co-tractor.	
					£ s. d.		
ELECTRICAL FITTINGS—continued.							
	Insulators, Porcelain—(continued).						
*1228	Tube, inlet, 6" x 3/4", inside dia., bent ..	..	Nil	..	..	} Nil
†1229	Tube, inlet, 5" x 3/4", inside dia., bent ..	..	Nil	..	..
†1230	Tube, inlet, 3 1/4" x 5/8", inside dia., bent ..	..	Nil	..	..
†1231	Tube, inlet, 2 1/2" x 5/8", inside dia., straight ..	..	Nil	..	..
†1232	Lamps, Electric, for hand torches, 3.5-volt, clear	U.K.	500	each	*0 0 2 1/2	British General Electric Co. Ltd.	
†1233	Lamps, Electric, for Automobile— 6/8 volts, 2 and 21 C.P., double filament	..	12	do.	*0 1 3	Brooks, Robinson, & Co. Ltd.	
1234	6/8 volts, 2 C.P., D.C., "Osram" ..	..	72	do.	*0 0 6 1/2	} British General Electric Co. Ltd.
†1235	6/8 volts, 2 C.P., S.C., "Osram" ..	..	150	do.	*0 0 6 1/2	
†1236	6/8 volts, 4 C.P., S.C., "Osram" ..	..	36	do.	*0 0 6 1/2	} Brooks, Robinson, & Co. Ltd.
†1237	6/8 volts, 21 C.P., D.C. ..	..	24	do.	*0 0 10 3/4	
†1238	6 volts, 48 to 50 C.P., S.C. ..	..	100	do.	*0 0 10 3/4	} British General Electric Co. Ltd.
†1239	12/16 volts, 2 C.P., D.C., "Osram" ..	..	120	do.	*0 0 6 1/2	
†1240	12/16 volts, 2 C.P., S.C., "Osram" ..	..	120	do.	*0 0 6 1/2	} British General Electric Co. Ltd.
†1241	12/16 volts, 21 C.P., S.C. ..	..	36	do.	*0 0 10 3/4	
†1242	12/16 volts, 2 and 21 C.P., double filament, D.C.	..	24	do.	*0 1 3	Brooks, Robinson, & Co. Ltd.	
†1243	12/16 volts, 48 to 50, C.P., D.C. ..	..	18	do.	*0 0 10 3/4	} Brooks, Robinson, & Co. Ltd.
†1244	12/16 volts, 48 to 50 C.P., S.C. ..	..	72	do.	*0 0 10 3/4	
†1245	Micanite Sheet, Flexible, 40" x 40" x 7 mils.	..	30 lb.	lb.	*0 3 2	Mica & Insulating Supplies Co.	
*1246	Micanite Tube, 3 1/2" x 3 7/8", 17" long ..	Vict.	1,000.	foot	0 0 9	W. G. Sleightholm	
†1247	Mica, Sheet, 6" x 4", Phlogopite, clear amber, to Specification	..	36 lb.	lb.	..	} Nil	
†1248	Mica, Sheet, Clear, 6" x 4" ..	..	180 "	"	..	
†1249	Mica, Sheet, 8" x 4 1/2" (cut to size), Indian Ruby	..	60 "	"	..		
†1250	Mica, Sheet, Amber spotted, 4" x 4" (cut to size)	Cent. Aust.	48 lb.	..	0 10 6		Mica & Insulating Supplies Co.
†1251	Mica Washers, 1 1/8" x 1 1/8" ..	..	50 "	"	..	Nil
†1252	Mica Washers, 2 1/4" x 2 1/4" ..	Vict.	70 "	"	0 8 0	W. G. Sleightholm	
†1253	Paste, Soldering, Coraline, in 2-oz. tins, for Electrical Work	U.K.	96 tins	tin	*0 0 5 3/4	} Associated General Electric Supplies Co. Ltd.	
†1254	Plugs and Sockets, Wall— 2-pin, 5 amp., G.E. 543 ..	N.S.W. (partly)	} 250	each	0 1 2		
†1255	2-pin, 10 amp., G.E. 543 ..	..		do.	0 1 2	
†1256	3-pin, earthing, 5 amp. ..	..		do.	0 1 9	
†1257	3-pin, earthing, 10 amp. ..	..		do.	0 1 9	
†1258	Plugs and Switches combined— 5 amp.	24		Nil
†1259	15 amp. ..	U.K.	2	each	*0 7 0		Lawrence & Hanson Electric Co. Ltd.
†1260	Reflectors, vitreous, enamelled— 14" B.C. Holder, Bedd, 150A, 14" x 1 1/8" ..	N.S.W.	24	..	0 5 0		Associated General Electric Supplies Co. Ltd.
1261	15" E.S. Holder, Benjamin, No. 4662 ..	..	12	..	..	} Nil
1262	18" E.S. Holder, Benjamin No. 4673 ..	..	12	..	..
1263	Elliptical Angle Type, Benjamin No. 4782 ..	..	12	..	..
	Reflectors, Enamelled Iron—						
†1264	10" x 1 1/8" hole ..	..	400	..	..	} Nil
†1265	12" x 1 1/8" hole ..	..	60	..	..
1266	Nil	..	..	..	..	} Associated General Electric Supplies Co. Ltd.
†1267	15" x 1 1/8" hole ..	U.K.	120	each	*0 1 8		
†1268	Reflectors, shade, opal, 10" x 1 1/8" hole ..	..	370	..	..	} Nil
†1269	Roses, Ceiling, 2-plate, vitreous porcelain ..	..	370	..	..
†1270	Roses, Ceiling, 3-plate, vitreous porcelain ..	..	24	..	..
†1271	Switches, Ironclad Type, 3-pole— 15 amp., suitable for 500 volt ..	N.S.W. (partly)	20	each	0 7 3	Electric Control & Eng. Pty. Ltd.	
†1272	30 amp., suitable for 500 volt ..	..	12	..	..	} Nil
†1273	60 amp., suitable for 500 volt ..	..	5	..	..
	Switches, Double Pole, Tumbler—						
†1274	5 amp., suitable for 250 volt ..	..	100	..	..	} Nil
†1275	10 amp., suitable for 250 volt ..	..	100	..	..

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
ELECTRICAL FITTINGS—continued.								
†1276	Switches, Double Pole, Tumbler—continued. 20 amp., suitable for 250 volt	U.K.	24	each	†0	10	2	Associated General Electric Supplies Co. Ltd.
†1277	Switches, Single Pole, Tumbler, "Ring Grip"— 5 amp., 250-volt, Bakelite	Vict. (partly)	1,000	do.	0	1	0 ¹ / ₂	W. G. Watson & Co. Ltd.
†1278	Nil .. .. .	..	Nil	..	..	..	..	} Nil
†1279	10 amp., 250 volt, Bakelite .. .. .	..	50	..	..	..	..
†1280	Switches, 2-way, 5 amp., 250 volt, "Ring Grip"	Vict. (partly)	30	each	0	1	3 ¹ / ₂	Noyes Bros. (Melb.) Pty. Ltd.
†1281	Switches, ceiling, 5 amp., 250 volt "Kerison"	U.K.	150	do.	*0	2	7 ¹ / ₂	W. G. Watson & Co. Ltd.
†1282	Torches, hand, electric, complete, with 3-cell battery and lamp	..	50	..	..	..	..	Nil
1283 to 1310	} Nil							

LEATHER GLOVES.

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.

The Tenderer shall submit with his tender a sample pair of the gloves he tenders to supply, and all deliveries of Gloves under this contract shall show no appreciable variation from such sample.

†1311	Gloves, Chrome Tanned Leather Palm, and Canvas back. No. 3303 ¹ / ₂	Vict.	2,500 pairs	pair	0	1	5	} Simpson's Gloves Pty. Ltd.
†1312	Gloves, all Chrome Tanned Leather, with inturned seams	"	250	"	0	2	1	

MILD STEEL PLATES.

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.

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.
3/16"	9.0	3.0	10.0	3.0	11.0	3.0	12.0	3.0	14.0	3.0	13.0	3.0	15.0	3.0
1/4"	7.5	2.5	8.5	2.5	9.0	3.0	10.0	3.0	11.0	3.0	13.0	3.0	15.0	3.0
5/16"	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
3/8"	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
7/16"	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
1/2"	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
5/8"	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
3/4"	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
7/8"	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	2.5	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 1/4 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 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 3/16 inch thick or 2 1/2 per cent. over calculated weight of the ordered size for any Plate in excess of 3/8 inch thick.

MILD STEEL PLATES—continued.

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

The rates quoted cover delivery loaded into railway trucks at 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.

As regards Item 1336, for delivery ex local stocks, exchange will be payable at the ruling rate of T.T. on date of delivery on the contract rate, excluding the charge of 20s. per ton; documentary evidence of payment or value will not be required.

The Plates ordered for indent shall be delivered within ten weeks, and those for delivery ex stock within 48 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 44729, 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, Primage 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 to Elder Smith & Co. in London for items 1313-1335 at the full contract rates within thirty days after delivery in Melbourne in good order and condition. Item 1336 will be paid for in Melbourne.

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

The plates will be manufactured by South Durham Iron and Steel Co. or approved British makers

In the event of there being any alteration in the current rate of Sea Freight on and after 31. 1. 32. the contracts rates shall be adjusted, provided such alteration in Sea Freight, is published in the Press. Such amended rate to apply to all shipments made after this date

Works weight will be accepted provided the full number of plates is received in Melbourne.

The Contract does not include Mild Steel Flats up to 18" in width in thicknesses that can be rolled in Australia.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
	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 8 6	Elder, Smith & Co. Ltd.	
1314	$\frac{1}{4}$ " thick up to 60" wide	"		do.	10 3 6		
1315	$\frac{5}{16}$ " thick up to 66" wide	"		do.	9 18 6		
1316	$\frac{3}{8}$ " thick up to 75" wide	"		do.	9 13 6		
1317	$\frac{7}{16}$ " thick up to 84" wide	"		do.	9 13 6		
1318	$\frac{1}{2}$ " thick up to 90" wide	"		do.	9 13 6		
1319	$\frac{9}{16}$ " thick and up, rising by $\frac{1}{16}$ " or $\frac{1}{8}$ ", up to 96" wide	"		do.	9 13 6		
	Extras for width—						
1320	$\frac{3}{16}$ " exceeding 57" wide up to 60" wide	"		do.	0 10 0		
1321	$\frac{1}{4}$ " exceeding 60" wide up to 63" wide	"		do.	0 15 0		
1322	$\frac{5}{16}$ " exceeding 63" wide up to 66" wide	"		do.	1 0 0		
1323	$\frac{3}{8}$ " exceeding 66" wide up to 69" wide	"		do.	1 10 0		
1324	$\frac{7}{16}$ " 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	$\frac{5}{16}$ " over 66" wide	"		do.	0 2 6		
1327	$\frac{3}{8}$ " over 75" wide	"		do.	0 2 6		
1328	$\frac{7}{16}$ " over 84" wide	"		do.	0 2 6		
1329	$\frac{1}{2}$ " over 90" wide	"		do.	0 2 6		
1330	$\frac{9}{16}$ " and up, over 96" wide	"		do.	0 2 6		
1331	Extra for lengths over 30' 0" up to 35'	"		do.	0 4 6		
1331A	" " " 35' up to 40'	"		do.	0 9 6		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
MILD STEEL PLATES—continued.						
1332	Extras for Narrowness— Sheared plates 20' long and upwards and under 18" down to and including 12" wide	„		do.	0 5 0	} Elder Smith & Co. Ltd.
1333	Sheared plates 15' long and upwards and under 12" wide	„		do.	0 10 0	
1334	Extras for Smallness— All plates under 4 square feet in area ..	„		do.	0 10 0	
1335	All plates resheared within ¼" ..	„		do.	1 0 0	
1336	Extra for delivery ex stock in Melbourne ..	„		do.	1 0 0	
1337 to 1340	Nil					

HELIOGRAPHIC PROCESS MATERIALS AND CARBONS FOR ARC LAMPS.

* As regards items 1345 and 1346 the Contract rates are plus ruling rate of T. T. Exchange on date of delivery on 80%.

HELIOGRAPHIC PROCESS MATERIALS.						
†1341	Linen, Ferro Prussiate— 30" wide x 20 yards long		40 rolls	roll		} Nil
†1342	40" wide x 20 yards long		25 "	do.		
†1343	Linen, Heliographic, Gallic Acid Bath— 30" wide x 20 yards long		40 "	do.		} Nil
†1344	40" wide x 20 yards long		20 "	do.		
*1345	Paper, Ferro Prussiate, base—Smooth Finish 30"/31½" wide	U.K.	1 ton	ton	*67 0 0	} Wiggins, Teape, and Alex. Pirrie (Export Ltd.)
*1346	40" wide	„	1 "	do.	*67 0 0	
†1347	Paper, Heliographic, Gallic Acid Bath— 30"/31½" wide x 20 yards long		100 rolls	roll		} Nil
†1348	40" wide x 20 yards long		50 "	do.		
†1349	Paper, Sepia, thin, negative— 30" wide x 20 yards long		15 "	do.		} Nil
†1350	40" wide x 20 yards long		6 "	do.		
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 ..		100	100	..	
†1353	12" long x 18 mm. dia. cored, white flame ..		Nil	100	..	
1354 to 1373	Nil					

WOOL YARN PADS AND SKEINS.

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

The Wool Yarn Pads, shown opposite Item No. 1374 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 1374A 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 shown opposite Item No. 1374 shall be provisionally delivered in the quantity and in the lengths and diameters as may be ordered, packed in cases, 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 1374A will be similarly packed and delivered to the Jolimont Workshops, Batman-avenue.

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

WOOL YARN PADS AND SKEINS—*continued.*

1374	Wool Yarn Pads, 6" long x 3" diameter to 9" long x 4" diameter, as may be ordered and as specified	Vict.	12 tons	lb.	0	0	10	} Foy and Gibson Pty. Ltd.
1374A	Wool Yarn, in Skeins, 24" long	"	3 "	do.	0	0	8½	

PNEUMATIC AND SOLID TYRES.

SPECIFICATION I.R. TYRES.—*Items Nos. 1397 to 1405.*

As regards Items Nos. 1397 to 1405, 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.

All Covers and Tubes must be of the standard first grade production.

As regards Items 1397-1405, the Contract rates are to be reduced to the satisfaction of the Comptroller of Stores in the event of there being any reduction beyond 10% in the ruling rate of T.T. Exchange between London and Australia of 30½% during the contract period, such reduced rates to be applicable to any material ordered two months after the date of the reduction in the Exchange rate.

Covers, Pneumatic, straight sided, truck—							
							Max. Load Per Tyre
1376	10-ply, 32" x 6"	..	..	21 cwt.	..	each	..
1377	8-ply, 33" x 5"	..	..	16 cwt.	..	do.	..
1378	8-ply, 34" x 5"	..	..	16 cwt.	..	do.	..
1379	10-ply, 36" x 6"	..	..	21 cwt.	..	do.	..
1380	12-ply, 36" x 8"	..	..	33 cwt.	..	do.	..
1381	10-ply, 34" x 7"	..	..	27 cwt.	..	do.	..
1382	10-ply, 38" x 7"	..	..	27 cwt.	..	do.	..
1383	12-ply, 40" x 8"	..	..	30 cwt.	..	do.	..
Covers, Pneumatic, straight edge, balloon—							
							Max. Load Per Tyre
1384	6-ply, 31" x 5.25 (heavy service)	..	..	9½ cwt.	..	do.	..
1385	4-ply, 34" x 5.00	..	..	8 cwt.	..	do.	..
Tubes, Pneumatic, truck, straight valve—							
1386	32" x 6"	..	..	..	..	do.	..
1387	31" x 5.25	..	..	..	..	do.	..
1388	34" x 5.00	..	..	..	..	do.	..
1389	33" x 5"	..	..	..	..	do.	..
1390	34" x 5"	..	..	..	..	do.	..
1391	36" x 6"	..	..	..	..	do.	..
Tubes, Pneumatic, truck, full goose neck, valve No. 6052—							
1392	34" x 7"	..	..	..	..	do.	..
1393	38" x 7"	..	..	..	..	do.	..
1394	40" x 8"	..	..	..	..	do.	..
1395	36" x 6"	..	..	..	..	do.	..
1396	36" x 8"	..	..	..	..	do.	..
Tyres, solid rubber, to be moulded on rims, for industrial trucks—							
1397	6½" dia. x 6¼"	..	..	..	Vict. (partly)	2	do. 2 16 0
1398	6½" dia. x 5"	..	..	..	"	4	do. 1 19 2
1399	11¼" dia. x 4¼"	..	..	..	"	6	do. 2 10 4
1400	14¾" dia. x 3"	..	..	..	"	2	do. 2 16 0
1401	14¾" dia. x 4"	..	..	..	"	2	do. 2 18 8
1402	16" dia. x 4"	..	..	..	"	12	do. 3 7 8
1403	17¾" dia. x 3½"	..	..	..	"	4	do. 3 10 0
1404	17¾" dia. x 5"	..	..	..	"	4	do. 3 14 0
1405	20" dia. x 3½"	..	..	..	"	4	do. 4 8 1
1406 to 1500	} Nil						

BENZOL.

See Appendix "E" for Specification.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
1501	Benzol, Specification N4, 40-gallon containers from bulk wagon	..	100,000 gals.	gallon	£ s. d.	Nil

VARNISHES.

See Appendix "F" for Specification.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
	Varnish, in ½-gallon or 1-gallon tins, as ordered—					
†1502	Carriage, Hard Drying, Specification D.1	Vict. (partly)	1,500 gals.	Imp. gal.	0 9 6	Explosives Factory
†1502A	" " " "	N.S.W.		do.	0 11 0	Wm. Docker
†1502B	" " " "	"		do.	0 10 6	Taubmans Pty. Ltd.
†1503	Durable (Wearing Body) Specification D.1	Vict. (partly)	1,800 "	do.	0 9 0	Explosives Factory
†1503A	" " " "	"		do.	0 7 6	
†1503B	" " " "	N.S.W.		do.	0 12 9	Wm. Docker
†1503C	" " " "	"		do.	0 13 0	Taubmans Pty. Ltd.
†1504	Copal, Specification D.2	Vict.	100 "	do.	0 7 3	Permalac Paint & Varnish Products
†1505	" Superfine	"	Nil "	do.	..	Nil
†1506	Oak, Specification D.3	Vict.	120 "	do.	0 7 0	Permalac Paint & Varnish Products
†1507	Gold Size, Specification D.4	"	500 "	do.	0 9 0	
†1508	Japan, Black, Specification D.5	"	75 "	do.	0 7 0	
†1509	Liquid Japan Drier (Terebine), Specification D.6	"	1,600 "	do.	0 5 6	E. L. Yencken & Co. Pty. Ltd.
†1510	Paper, Specification D.7	N.S.W.	2 "	do.	0 9 0	Wm. Docker
†1511	Spirit, White or Brown, as ordered, Specification D.8	Vict.	9 "	do.	0 7 0	S. Smith & Co. Pty. Ltd.
†1512	Knotting, Specification D.9	N.S.W.	50 "	do.	0 8 6	Victoria Varnish Co.
†1513	French Polish	Vict. (partly)	400 "	do.	0 7 6	Explosives Factory
†1514	" " White	"	Nil "	do.	..	Nil
†1515	Insulating, Quick Air-drying, Black	N.S.W.	300 "	do.	0 6 9	Wm Docker
†1516	Insulating, Quick Air-drying, Clear	"	7 "	do.	0 9 0	
†1517	Varnish, Insulating, Black, Stoving, to Specification, in 4-gallon tins (for Jolimont)	"	160 "	do.	0 8 6		Taubmans Pty. Ltd.
†1517A	Varnish, Insulating, Black Stoving, to Specification, in 4-gallon tins (for Electrical Workshops)	"		do.	0 8 6	
†1518	Varnish, Bronzine	Vict.	40 "	do.	0 8 6	Permalac Paint & Varnish Products
1519 to 1523	Nil					

LIQUID DISINFECTANTS.

The Disinfectant to be supplied under Item 1524 shall have a Rideal Walker Coefficient of not less than 10; and that supplied under Item 1525 shall have a Rideal Walker Coefficient of not less than 3.

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 each delivery.

†1524	Disinfectant, Liquid, in casks— High Grade	..	630 gals.	Imp. gallon	..	Nil.
†1525	Low Grade	Vict. (partly)	3,300 "	do.	0 0 11	L. C. Edgar & Co.
†1526	Oil, Disinfectant, for use in Urinals, in 4-gallon tins, "Pynex"	Vict.	540 "	do.	0 1 5	A. B. Gibson & Sons Pty. Ltd.
1527 to 1528	Nil					

CANDLES, MATCHES, SOAP, PARAFFIN WAX, ETC.

SPECIFICATION FOR SOFT SOAP—Item No. 1537.

All the soft soap supplied under this Contract shall be of the best quality and description, and shall contain not less than 40 per cent. of fatty acids. The soap must not become liquid at a temperature of 90 deg. Fahr., while on being cooled to 32 deg. Fahr. for 24 hours no liquid must separate from it. It shall contain not more than three parts of free caustic alkali per centum.

Any fish oil or marine animal oil used in the manufacture of the soap must be deodorized, and no scenting material such as oil of mirbane shall be present.

The soap will be tested with cold water, and should dissolve readily and have a good lather when stirred.

SPECIFICATION FOR COMMON YELLOW SOAP—Items Nos. 1539 and 1540.

The soap shall be of the best quality and description and shall be the product derived from the action of a solution of alkali on fats, oils, or resins. It shall contain not less than fifty-nine per centum (59%) of fatty acids, of which not more than one-third may be resin acids. It shall contain not more than three parts per centum of carbonate of soda, and not more than one-tenth of one part per centum of free caustic alkali. It shall not contain any other substance save water, perfume, and harmless colouring matter. It shall be of good pale yellow colour and free from offensive odour.

The amount of fatty and resinous acids shall be ascertained by testing pieces cut from the centre of inside of bar.

SPECIFICATION FOR PARAFFIN WAX—Item No. 1543.

The Paraffin Wax shall be a pure petroleum or shale product of the very best quality, free from colour, mineral acid or alkali, and mineral matter. The Paraffin Wax shall have a melting point of not less than 135 degrees Fahrenheit.

The Paraffin Wax shall be packed in cotton wrappers inside single gunny bags and delivered at the Newport Workshops.

Orders for Paraffin Wax will be placed in minimum lots of 1 ton, and 2 months allowed for importation. The rates tendered do not include wharfage, but in order that the Corporation will obtain exemption of wharfage, each shipment should be consigned to the Victorian Railways Commissioners, and the Bill of Lading made out in their favor. Wharfage will be arranged by the Corporation, and the Bill of Lading returned to the Contractor to complete delivery. Storekeeper, Newport Workshops, to arrange accordingly.

If during the currency of the Contract period the Contractor is able to reduce the Contract rate, the Corporation shall receive the benefit of such reduction and the Contractor shall advise the Comptroller of Stores of any such fallen price.

* The Contract rate is plus the ruling rate of T.T. Exchange on date of delivery on 80 per c. nt.

As regards Item No. 1529, should it be necessary for the Contractor to import into the State after receipt of order, Candles in sufficient quantities to warrant the Department obtaining exemption of wharfage, the material shall be consigned on the Bill of Lading to the Railways Commissioners. Wharfage will be cleared by the Corporation to the amount involved deducted from invoice. Delivery order to be returned to Contractor's Melbourne representative to complete delivery.

As regards Item 1537, the rate excludes wharfage. Clearance to be arranged by the Department.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
CANDLES, MATCHES, SOAP, ETC.								
†1529	Candles, Stearine, full weight or short chamber, as ordered	N.S.W.	3,900 lb.	lb.	0	0	6½	Australian Soaps, Ltd.
†1530	Glycerine, pure	Vict.	160 "	do.	0	0	9	G. Mowling & Son
†1531	Matches, Wood, Safety	"	1,000 gross boxes	gross of boxes	Nil			Nil
†1532	Soap, Liquid Cleanser, "Carbolocide" in 4-gallon tins, for use in floor scrubbing	Vict.	48 gals.	gallon	0	1	9	A. B. Gibson & Sons Pty. Ltd.
1533	Nil		Nil		Nil			Nil
†1534	Soap, Powdered, in ½-lb. or 1-lb. packets, as ordered	Vict.	5,000 lb.	lb.	0	0	6	J. Kitchen & Sons Pty. Ltd.
†1535	Soap, Sand, in boxes of 72 x 12 oz. bars net weight of Soap 54 lb. per box	"	180 boxes	box	0	10	6	
†1536	Soap "Solvol"	"	2,300 cakes	dozen	0	3	0	Colgate - Palmolive - Peet Co. Ltd.
†1537	" Soft, to specification	N.S.W.	750 cwt.	cwt.	1	2	0	
†1538	" Toilet, in cakes	Vict.	300 lb.	lb.	0	0	6	Arthur Tilley
†1539	" "Prize Medal," in boxes of approximately 1 cwt., to specification, unwrapped	"	200 cwt.	cwt.	1	7	0	J. Kitchen & Sons Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
CANDLES, MATCHES, SOAP, ETC.— <i>continued.</i>								
†1540	Soap "Special," yellow, in bars, 32's, to specification	Vict.	300 cwt.	cwt.	1	5	0	Anglo-Dominion Soaps Pty. Ltd.
†1541	Soda Crystals, Washing	"	230 "	do.	0	7	6	J. Kitchen & Sons Pty. Ltd.
†1542	Tapers, Wax, thick, 22" long	"	50 lb.	lb.	Nil			Nil
†1543	Wax, Paraffin, for Tarpaulin Dressing ..	E. Indies	75,000 "	do.	*0	0	3-26	Shell Co. of Aust., Ltd.
1544	} Nil							
to								
1547								
GUM AND INKS.								
†1548	Gum, liquid, in 10-gallon kegs; empty kegs will be returned to the contractor at the Metropolitan Receiving Depot	Vict. (partly)	60 gals.	Imp. gallon	0	4	6	Spicers & Detmold Ltd.
†1549	Office Paste, 10-oz. bottles	"	580 bts.	bottle	0	0	5½	Caldwells Pty. Ltd.
1550	Blue Black, in casks; empty casks will be returned to the contractor at the Metropolitan Receiving Depot	"	240 gals.	Imp. gallon	0	1	9	} Spicer & Detmold Ltd.
†1551		" in bottles, Imperial quarts	"	160 bts.	btle.	0	1	
†1552	" " Imperial pints	"	18 "	"	0	0	8½	} Caldwells Pty. Ltd.
†1553	" Copying, Imperial pints	"	18 "	"	0	1	0	
†1554	Green, 12-oz. bottles	"	90 "	"	0	0	8	Wiltshires Pty. Ltd.
†1555	Violet, 12-oz. bottles	"	3 "	"	0	0	7	} Spicer & Detmold Ltd.
†1556	Metal Stamp, blue, 1-oz. bottles, "Stephen's No. 281," screw top	N.S.W.	30 "	"	0	0	10	
†1557	Metal Stamp, black, 1-oz. bottles, "Stephen's No. 281," screw top	"	9 "	"	0	0	10	} Spicer & Detmold Ltd.
	Ink, Indian, in 1 oz. bottles, with quill filler—							
†1558	Black, "Stephen's No. 192"	"	430 bts.	btle.	0	1	0	} Wiltshires Pty. Ltd.
†1559	Any other colours	Vict.	30 "	"	0	1	0	
1560	Nil							

DRYSALTERIES, CHEMICALS, ETC.

SPECIFICATION OF ACID, SULPHURIC, FOR STORAGE BATTERIES.—

Items Nos. 1580 to 1588.

The Sulphuric Acid shall comply with Australian Engineering Standards Association Specification C. 60.

SPECIFICATION FOR CALCIUM CARBIDE.—*Items Nos. 1600 to 1602.*

The Calcium Carbide required under these items shall be delivered in air-tight, metal containers and shall be reasonably free from dust and fine particles.

The Calcium Carbide shall be reasonably free from deleterious or inert impurities, and when tested shall be of such purity that one kilogram (35.3 ounces avoird.) of the carbide, on the application of excess water thereto, shall yield not less than 250 litres (8.825 cub. ft.) of acetylene gas when collected over water saturated with sodium chloride and at temperature of 15.5 deg. C.

The acetylene gas obtained, as described in clause 3, shall be tested for purity when it shall contain over 99% by volume of acetylene gas (C₂H₂), and moreover, when further tested for phosphine gas (PH₃), shall contain not more than 0.05% by volume thereof.

The Carbide supplied under Item 1600 shall be in lump, of the size known as 50/80 millimetres, and not less than 95% of the Carbide shall be of that size.

The Carbide supplied under Item 1601 shall be granulated, of the size known as 4/7 millimetres, and not less than 95% of the Carbide shall be of that size.

The Carbide supplied under Item No. 1602 shall be granulated of the size known as 7/15 millimetres, and not less than 95% of the Carbide shall be of that size.

SPECIFICATION FOR MURIATE OF AMMONIA.—*Items Nos. 1611 and 1612.*

GENERAL DESCRIPTION.—The material required under Item 1611 is Crystallized Ammonium Chloride (commonly termed Sal-Ammoniac or Muriate of Ammonia) containing not less than 99% NH₄Cl.

STANDARD OF PURITY.—The material shall conform with the following requirements:—

(a) The crystals shall be clean and free from odour, and shall pass through a 3" sieve.

(b) 10 grammes of the material, added to 30 cubic centimetres of distilled water at 20° C., should rapidly dissolve with occasional shaking to a clear solution.

DRYSALTERIES, CHEMICALS, ETC.—continued.

Specification for Muriate of Ammonia—continued.

- (c) The ash remaining after volatilization, by heating in a platinum dish 3 grammes of the material, should not amount to more than 0.75%.
- (d) Lead, copper, and other metals. 10 cubic centimetres of 10% solution of the material in distilled water should show no appreciable darkening on the addition of an equal volume of hydrogen sulphide solution.
- (e) The material shall contain—
- (i) Not more than 0.2 per cent. of sulphates, calculated in the form of sulphuric anhydride SO_3 .
 - (ii) Not more than 0.01 per cent. of iron, calculated in the form of oxide Fe_2O_3 .
 - (iii) Not more than 0.001 per cent. of compounds of arsenic, calculated as the element As.

PACKING.—The material shall be packed in strong, sound kegs or cases, each containing 1 cwt. The kegs or cases shall be made of dry well-seasoned new wood, of sufficient strength and suitably secured to prevent any loss of contents by leakage. The kegs or cases shall be well lined with strong brown paper.

Any delivery of second-hand, repaired, damaged, or broached kegs or cases will be liable to rejection.

MARKING.—All containers shall be legibly marked in stencil, with the name of the material, the net weight of the contents the brand or brand name, if any, and the name of the manufacturer.

SAMPLES.—Samples shall be taken from each delivery of the items enumerated, and these samples when tested in the laboratory shall conform to the specification (if any) and the specific gravities (if any) set out in the Schedule.

SPECIFICATION FOR ORANGE SHELLAC—Item No. 1621.

The Shellac shall comply with the Australian Commonwealth Engineering Standards Association Specification K. 38.

Acids.—The specific gravity at 60° F. of the acids shall be as shown hereunder:—

Item No.	Acid.	Specific Gravity at 60 deg. F.
1565	Hydrochloric	Not less than 1.1725
1566-1569	Muriatic	Not less than 1.166
1570-1573	Nitric	Not less than 1.400
1574	Nitric C.P.	Not less than 1.400
1576-1579	Sulphuric	Not less than 1.820
1580-1583	Sulphuric for batteries	From 1.100 to 1.215
1584-1587	Sulphuric for batteries	From 1.216 to 1.300
1588	Sulphuric C.P.	Not less than 1.840

As regards Items Nos. 1580 to 1587, the Contractor will charge cartage at the rate of 12s. per ton for ton lots, and in less than ton lots at the Master Carriers Association rates, according to the actual quantity delivered at the one time.

As regards Items 1580 to 1587, 7s. each for jars and 7s. each for crates will be charged and credited if returned in good order and condition to Contractor's works free of cost within three months.

The Corporation agrees that these, when delivered to the Contractor's carter, shall be signed for subject to examination, and the Corporation will only be entitled to credit for such jars and crates as are found to be in good order and condition on receipt at Contractor's works.

Each delivery of empties should be properly reviewed, in order that due credit will be obtained, and steps should be taken to cancel any debits raised for jars found to be broken.

Each Jar of Battery Acid contains from 3 to 3½ gallons, and it is preferable that either weight or gallons be ordered rather than jars, which vary somewhat in size.

It should be noted that the Commonwealth Fertilizers and Chemicals Ltd. refused to sign a contract, and the arrangement may be terminated by the Corporation at any time should it so desire.

The containers for the items shown below shall be charged for by the Contractors on delivery, but credited to the Department on return in good order and condition at the Metropolitan Receiving Depot:—

Bottles at 2s. each.—Items Nos. 1562, 1565, 1576, 1588, and 1593.

Bottles at 2s. 6d. each.—Item No. 1566.

Jars at 7s. each and crates at 7s. each.—Items Nos. 1577 and 1580 to 1587 (see above).

Jars at 7s. each.—1567, 1568, 1571, and 1606.

Drums @ 140 lb. = £1, 7-9 cwt. £10 each.—Item 1625.

As regards Item 1602 sufficient time to be allowed for importation to enable Bill of Lading to be made out in favour of Victorian Railways Commissioners so that wharfage may be cleared by Corporation and deducted from invoice Storekeeper, Newport Locomotive and Shipping Clerk to arrange.

As regards Items 1565, 1567, 1568, 1571, 1588, and 1606, these rates are based on existing rates of Customs or Primage Duty or Exchange (30½ per cent.) and should there be any alteration in these rates during the Contract period affecting any raw material contained in the stores to be supplied under such items, the Contract rates shall be adjusted to the satisfaction of the Comptroller of Stores, operative on any stores ordered on and after the expiration of a period of two months from date of such alteration.

The foregoing condition also applies to items 1577, and 1621A, with the exception of the references to Exchange.

* As regards Items 1597, 1616A, 1621, 1621B, and 1622, the rates are plus ruling rate of T.T. Exchange on 80 per cent.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
DRYSALTERIES, CHEMICALS, ETC.—continued.								
1561	Acetone, chemically pure, in 1-lb. bottles ..	Vict. (partly)	3 lbs.	lb.	0	3	0	H. B. Selby & Co.
1562	Acid— Acetic, chemically pure, glacial ..	"	10 "	do.	0	3	9	
1563	Nil.							Nil
1564	Gallic		28 "	do.				
1565	Hydrochloric, chemically pure, in Winchester quarts	Vict. (partly)	290 "	do.	0	1	5	H. H. York & Co. Pty. Ltd.
	Muriatic, Hydrochloric, or Spirits of Salts, as ordered—							
1566	In Winchester quarts	"	10 cwt.	cwt.	1	6	0	W. & G. Dean Pty. Ltd.
1567	In lots of 6 jars or less	"	9 "	do.	1	4	6	H. H. York & Co. Pty. Ltd.
1568	In lots of 7 to 18 jars	"	16 "	do.	1	4	6	
1569	In lots over 18 jars	"	Nil	do.				Nil
	Nitric—							
1570	In Winchester quarts		90 lbs.	lb.				Nil
1571	In lots of 6 jars or less	Vict. (partly)	400 "	do.	0	0	8	H. H. York & Co. Pty. Ltd.
1572	In lots of 7 to 18 jars		Nil	do.				Nil
1573	In lots over 18 jars		Nil	do.				
1574	Chemically pure		200 "	do.				Nil
1575	Oxalic, in 1 cwt. kegs		3,300 "	do.				
	Sulphuric—							
1576	In Winchester quarts	Vict. (partly)	100 "	do.	0	0	3	H. B. Selby & Co.
1577	In lots of 6 jars or less	"	1,000 "	do.	0	0	1 1/2	Hardie Trading Pty. Ltd.
1578	In lots of 7 to 18 jars	"	Nil	do.				Nil
1579	In lots of over 18 jars	"	Nil	ton				
	Sulphuric, for Storage Batteries, delivered ex Contractors' Works to Shelter Shed, North Melbourne; in 3-gallon jars (see notes re conditions)—							
	S.G. 1.100 to 1.215—							
1580	In lots of 6 to 18 jars	Vict.		lb.	0	0	2 1/2	Commonwealth Fertilizers & Chemicals Ltd.
1581	In lots of 19 to 35 jars	"		do.	0	0	1 1/2	
1582	In lots of 36 to 51 jars	"		ton	15	0	0	Commonwealth Fertilizers & Chemicals Ltd.
1583	In lots of 52 jars and over	"		do.	12	10	0	
	S.G. 1.216 to 1.300—		20 tons					
1584	In lots of 6 to 18 jars	"		lb.	0	0	2 1/2	Commonwealth Fertilizers & Chemicals Ltd.
1585	In lots of 19 to 35 jars	"		do.	0	0	2	
1586	In lots of 36 to 51 jars	"		ton	16	0	0	Commonwealth Fertilizers & Chemicals Ltd.
1587	In lots of 52 jars and over	"		do.	13	0	0	
1588	Sulphuric, chemically pure, in 1/2-gallon stoppered bottles each containing 9 lb.	Vict. (partly)	220 lbs.	lb.	0	1	5	H. H. York & Co. Pty. Ltd.
1589	Tartaric		Nil	do.				Nil
1590	Alcohol, 90 per cent.	Vict. (partly)	1 gal.	gallon	2	10	0	Felton, Grimwade, Duerdin Ltd.
1591	Alum, Lump, in 2 1/2 cwt. casks		Nil	lb.				Nil
1592	" Powdered, in 2 1/2 cwt. casks		400 lbs.	do.				
	Ammonia, Liquid, 880 sp.—							
1593	In Winchester quarts	Vict.	70 lbs.	lb.	0	0	7	R. J. Fletcher
1594	Chemically pure, in Winchester quarts	"	13 qts.	Win. quart				Nil
1595	Ammon. Hydro. Sulph.		Nil	lb.				
1596	Borax, Lump		3 cwt.	cwt.				Hardie Trading Pty. Ltd.
1597	" Powdered, in 1-cwt. bags	U.K.	2,300 lbs.	lb.	*0	0	2 1/2	
1598	" " Glass		Nil	do.				
1599	Calcium Chloride, in about 5-cwt. drums		6 tons	ton				Nil
1600	" Carbide, Lump, in about 5-cwt. drums, 50/80		60 "	do.				
1601	" " Granulated, in drums, 4/7		Nil	do.				Noyes Bros. (Melb.) Pty. Ltd.
1602	Calcium Carbide, Granulated, in 2-cwt. drums, 7/15, " Australian Commonwealth Carbide Co."	Tas.	6 "	do.	2	14	0	
1603	Candles, Sulphur		Nil	dozen				Nil
1604	Camphor		Nil	lb.				
1605	Carbon, Bi-Sulph., in 5-gallon tins		210 gals.	gallon of 12lb.				Nil

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
DRYSALTERIES, CHEMICALS, ETC.—continued.						
1606	Formalin, Liquid, in 3-gallon jars	Vict. (partly)	300 lb.	lb.	0 0 8½	H. H. York & Co. Pty. Ltd.
1607	Gum, Arabic	Nil	do.	..	}
1608	Lime, Chloride of, in 7-lb. or 14-lb. tins, as ordered	..	Nil	do.	..	
1609 to 1610	Nil					
†1611	Muriate of Ammonia (Sal Ammoniac)	15 cwt.	cwt.	..	} Nil
†1612	Muriate of Ammonia (Voltoids), ¾" diameter	..	Nil	do.	..	
1613	Powder, Carbolic, 10 per cent. .. ..	..	2 "	do.	..
1614	" Talcum	Nil	lb.	..	}
1615	Potash, American, Lump .. ..	..	Nil	do.	..
1616	" Prussiate of .. ..	..	370 lb.	do.	..
1616A	" Caustic	U.K.	50 "	do.	*0 1 0	H. B. Selby & Co.
1617	Potassa Sulphurata, in air-tight receptacles, containing not more than 3 lb.	..	Nil	do.	..	} Nil
1618	Quicksilver .. ..	..	Nil	do.	..
1619	Salt, Common White .. ..	..	Nil	cwt.	..
1320	" " fine, for Case-hardening	..	22 cwt.	do.	..	} Nil
1621	Shellac, Orange	India	60 lb.	lb.	*0 1 7	
1621A	" White	Vict. (partly)	60 "	do.	0 2 9	Brooks, Robinson & Co. Ltd.
1621B	" Brown	India	500 "	do.	*0 1 8	} W. & G. Dean Pty. Ltd.
1622	" Button, for French Polishing	"	150 "	do.	*0 1 7	
1623	Silver, Nitrate of, Crystal	Vict.	14 "	do.	1 5 4	} Kodak (Aust.) Pty. Ltd.
†1624	Soda, Caustic, Lump, 75/76 per cent., in drums	"	6 tons	ton	26 0 0	
†1625	" " Liquid, 32 per cent. Na ₂ O, in drums of 140 lb., or 7/9 cwt.	"	6 "	do.	9 2 6	} Commonwealth Fertilizers & Chemicals Ltd.
†1626	" " Powdered, 1-lb. tins, 98/99 % NaOH	..	54 tins	tin	..	
†1626A	Soda, Caustic, Powdered, not less than 96 %, in 187 lb. drums	44 drums	drum	..	} Nil
†1627	Soda, Caustic, Pure .. ..	..	Nil	lb.	..
1628	Sodium, Bi-Carbonate, chemically pure	440 lb.	do.	..	} Nil
1629	Sulphur, Crude .. ..	..	Nil	do.	..
1630	" Flowers of	Vict. (partly)	140 "	do.	0 0 2	H. B. Selby & Co.
1631	Tubes, Glass, charged with 90 per cent. Sulphuric Acid, with blue bead, for Conical Fire Extinguishers, to Litho. No. 148/25 amended 28/1/28	Vict.	700	each	0 1 3	} Felton, Grimwade, Duerdin Ltd.
1632	Tubes, Glass, charged with 90 per cent. Sulphuric Acid, with red bead, for Cylindrical Fire Extinguishers, to Litho. No. 148/25 amended 28/1/28	"	300	do.	0 1 3	
1633	Turpentine, Venice	Nil	lb.	..	} Nil
1634	Beakers, Pyrex Squat, 600 ccs. .. ..	..	4 doz.	dozen	..
	Crucibles, Berlin, Porcelain, without covers—					
1635	No. 00 .. ..	..	Nil	do.	..
1636	No. 1 .. ..	..	3 doz.	do.	..
1637	Dishes, Evaporating, fine porcelain, 3" diameter	..	Nil	do.	..	
1638	Flasks, Pyrex, round bottoms, 400 ccs. capacity	..	Nil	do.	..	
1639 to 1642	Nil					

**COPPER TUBING, COPPER PHOSPHOR, COPPER ROD, SHEET, AND STRIP.
SPECIFICATION FOR COPPER TUBING.—Items Nos. 1639–1666.**

Particulars.—The Copper Tubing as set opposite items 1643 to 1668 shall be in accordance with Australian Standard Specification No. E-12-1925T. (except where shown otherwise in this specification).

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at the Rolling Stock Workshops, Newport (Hydraulic test excepted, which shall be conducted by and at the cost of the manufacturer at his works). Each Tube shall be subjected to an hydraulic internal test pressure of not less than 500 lb. per square inch, and the Contractor shall supply (with each delivery of the tubes) documentary evidence of such hydraulic test having taken place on each tube.

COPPER TUBING, COPPER PHOSPHOR, COPPER ROD, SHEET AND STRIP—*continued.*

Rejection.—Should any Copper Tube or test piece taken from any Tube in a delivery fail to comply in any particular with this specification, the whole of the lot represented by the tube or test piece shall be liable to rejection.

Defects Showing During Fabrication.—Should any portion of a Copper Tube show injurious defects in course of fabrication by the Corporation the Contractor shall be notified, and provided the copper Tube has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective Copper Tube.

Packing.—The Copper Tubes shall be delivered packed in cases, crates or other suitable means to prevent them from being damaged in transit.

SPECIFICATION FOR PHOSPHOR COPPER.—*Item No. 1667.*

Particulars.—The Phosphor Copper shall be suitable for use for the production of Phosphor Bronze. It shall be supplied in the form of notched slabs weighing from 15 lb. to 20 lb. each. It shall be brittle and show on fracture a silvery white colour.

Freedom from Defects.—The Phosphor Copper shall be clean, uniform in quality, and free from all injurious defects.

Chemical Analysis.—The Phosphor Copper shall show on analysis—

Phosphorous	..	..	..	..	Minimum 15·00 per cent.
Phosphorous and copper combined	..	..	..	..	Minimum 99·85 per cent.
Impurities	..	..	..	..	Maximum 0·15 per cent.

Branding.—The manufacturer's name or trade mark and the cast number shall be cast or otherwise legibly and durably marked on each slab.

Inspections and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises. One slab of each cast in each delivery will be selected for testing and shall be taken as representing the lot from which it was selected. Should any slab fail to comply in any particular with this specification the whole of the lot which it represents shall be liable to rejection.

SPECIFICATION FOR COPPER ROD (ELECTROLYTIC). *Items 1668–1670, AND COPPER SHEET.—Items 1679 and 1680.*

Particulars.—The COPPER ROD shall be clean and smooth, free from piping, surface and all other defects.

The COPPER SHEET shall be clean and smooth, uniform in thickness and free from all surface and injurious defects.

Limit of Tolerance.—No Copper Rod shall be more than 0·005 in. under nor more than 0·010 in. over the ordered diameter.

No Copper Sheet shall be more than half a Birmingham Sheet Gauge over or under the ordered thickness.

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises.

Defects Showing During Fabrication.—Should any portion of a Copper Rod or Sheet show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified and provided the Copper Rod or Sheet has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective Copper Rod or Sheet.

SPECIFICATION FOR COPPER ROD.—*Items Nos. 1671–1678.*

Particulars.—The Copper Rod shall be in accordance with Australian Standard Specification, No. E. 9–1925 T. (except where shown otherwise in this Specification).

Chemical Analysis.—The Copper Rods shall contain not less than 0·3 per cent. nor more than 0·50 per cent. of arsenic and not more than 0·03 per cent. of oxygen and the balance shall be copper. The Contractor shall supply an analysis with each delivery of the Copper Rod. The Corporation shall have the right to make a check analysis if it so desires, and the result shall conform to that shown above.

Limits of Tolerance.—No Copper Rod shall be more than 0·005 in. under nor more than 0·010 in. over the specified diameter and not more than 0·010 in. out of round.

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

Rejection.—Should a Copper Rod or test piece taken from any Rod fail to comply in any particular with this specification, the whole of the lot represented by the Rod or test piece shall be liable to rejection.

Defects Showing During Fabrication.—Should any portion of a Copper Rod show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified and provided the Copper Rod has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Copper Rod.

SPECIFICATION FOR HARD DRAWN COPPER STRIP.—*Item Nos. 1681 and 1682.*

Particulars.—The copper strip shall be commercially pure hard drawn, and shall be clean and smooth from die, without roughness, seams or scales.

Tests.—The copper strip shall have a Brinell Hardness of not less than 75.

Testing.—The Corporation may carry out any tests to determine whether the service complies with this Specification. The successful tenderer will be notified at his Melbourne address of the intention to carry out such tests at least 24 hours previously, but should he or his representative fail to be present, the tests may be carried out in his or his representative's absence and at his risk.

SOFT ARSENICAL COPPER TUBE.—*Item No. 1686.*

Particulars.—The tube shall be soft annealed, and shall contain not less than 99·25 per cent. of copper, and not more than 0·45 per cent. arsenic.

Dimensions.—The tubes shall have an internal diameter of 1·135 inches and a thickness of No. 13 s.w.g., and allowable tolerance on the thickness shall be plus or minus 0·008 inch. The tubes shall be delivered in 15-ft. lengths or alternatively in lengths suitable for cutting into lengths of 14 $\frac{3}{8}$ inches.

Freedom from Defects.—The tubes shall be clean, smooth and free from surface defects or longitudinal grooving, both internally and externally, and the ends shall be clean and square. The tubes shall be straight and cylindrical, of uniform thickness, concentric and of uniform internal diameter throughout.

Tests.—The tubes shall stand drifting without showing crack or flaw until the diameter of the drifted end measures at least 25 per cent. greater than the original diameter of the tube. The tubes must be capable of withstanding the following tests both cold and at red heat without showing cracks or flaws.

A piece of tube shall be flattened down until the interior surfaces of the tube meet, and then be doubled over on itself, i.e., bent through an angle of 180 degrees, the bend being at right angles to the direction of the length of tube.

HARD DRAWN COPPER STRIP (HALF MOON SECTION).—*Item No. 1683.*

Particulars.—The copper strip shall be made from electrolytic copper, to Drawing No. F. 1131, and to be to the satisfaction of the Comptroller of Stores. It shall be hard drawn, clean and smooth from the die, without roughness, seams or scales.

Tests.—The copper strip shall withstand bending through an angle of 180 degrees over a bar $\frac{5}{8}$ inch diameter, without showing any signs of cracks or flaws of any description.

The successful Tenderer will be notified at his Melbourne address of the intention to carry out tests as laid down in this Specification at least 24 hours previously, but should he or his representative fail to be present, the tests may be carried out in his or his representative's absence, and at his risk.

COPPER STRIP FOR PANTOGRAPHS.—*Item No. 1686A.*

Particulars.—The strip shall be of hard drawn or hard rolled electrolytic copper, of straight, smooth finished and free from any defects such as flaws, cracks, &c. It shall be cut true to the length and angle and bent as shown in Drawing No. F. 690B, and shall be free from burrs.

Hardness.—The copper strip shall have a hardness of between 90 and 100 as measured by the Brinell Hardness Test.

Tests.—The Corporation will carry out any tests necessary to ascertain whether the copper strips delivered comply with this Specification. Should more than 10 per cent. of any lot or package fail to comply with the Specification, the whole of the copper strip in such lot or package will be liable to rejection.

Weights.—All weights shall be ascertained by weighing the copper strip on the weighbridge scales or other weighing machines of the Corporation, at the Jolimont Workshops, and all such weights so ascertained by the Comptroller of Stores shall for all purposes be accepted by the parties as correct and final and binding.

MANGANESE BRONZE HEXAGONAL ROD.—*Items Nos. 1684 and 1684A.*

Particulars.—The hexagonal rod shall be drawn or extruded from Manganese Bronze. They shall be clean, smooth and free from grooves, pipes or defects, both externally and internally, and at the ends shall be clean and square. The rods shall be straight, hexagonal and of uniform dimensions throughout.

Dimensions.—The Manganese Bronze Hexagonal Rods are to be used for the manufacture of $\frac{1}{4}$ -inch and $\frac{3}{8}$ -inch diameter British Standard Whitworth (small hexagon), (B.S.W.S.) nuts and bolts (B.E.S.A. No. 193). The width across the flats of the hexagon shall be 0·815 inch minimum, 0·820 inch maximum for the $\frac{1}{4}$ -inch diameter bolts, and 0·595 inch minimum, 0·600 inch maximum for the $\frac{3}{8}$ -inch diameter bolts. The rods shall be delivered in lengths of approximately 15 feet.

Defects Showing During Fabrication.—Should any portion of a manganese bronze rod show injurious defects in the course of fabrication by the Corporation, the Contractor shall be notified, and provided the rod has been properly treated by the Corporation, the Contractor shall at his own expense, and at the discretion of the Corporation, replace or make good the defective rod.

Tests.—The rods shall have a tensile breaking strength of not less than 32 tons per square inch, and not more than 40 tons per square inch with an elongation of not less than 25 per cent. in a length of 2 inches.

Delivery.—Items Nos. 1639 to 1682 at the Metropolitan Receiving Depot, Spencer-street.

Items Nos. 1683, 1684, 1684A, and 1686, at the Corporation's Electrical Depot Storehouse, Spencer-street.

Items Nos. 1685 and 1686A, at the Corporation's Jolimont Workshops Store, Batman-avenue, Melbourne, and the weights as ascertained at the time of delivery at these depots shall be accepted.

Wharfage.—As regards Items 1639 to 1686, the rates include Wharfage, arrangements to be made by officers ordering, for wharfage to be saved and deducted from the Contractor's invoice when time for delivery can be allowed.

*As regards Items 1639 to 1666, and 1686, the rates are based on the price of £48 15s. per ton, which is the equivalent in Australian currency for Electrolytic Copper Wire Bars and are to be varied up or down by 1/10th of a penny per lb. of tubes for each complete 20s. or part thereof by which the price in Australian currency of wire bars published in the *Argus* on the date of receipt of order is greater than £48 19s. 11d., or less than £48 per ton respectively.

The equivalent in Australian currency of the London Metal Exchange price for Electrolytic Copper Wire Bars is such prices plus the percentage as is quoted by the Associated Banks as their buying rate for T.T. on London.

If on any day no price of wire bars is published or if no T.T. Exchange rate is quoted, the rates last published shall apply in either or both cases.

MANGANESE BRONZE HEXAGONAL ROD, ETC.—*continued.*

In the case 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.

In the case of a dispute concerning the published buying rate, for telegraphic transfer to London, the figures advised by the Associated Banks as last published by them prior to the day of receipt of the order shall be mutually accepted.

As regards Items 1639 to 1666, and 1686, if under any item a lesser quantity than 3 cwt. is ordered, 2d. per lb. extra will be charged.

If tubes require to be annealed an extra of 0.5 per lb. will be charged.

Extra for dead lengths up to and including 18 feet, ½d. per lb. extra, over 18 feet to 20 feet, 2d. per lb. extra.

Delivery.—Six to eight weeks shall be allowed for delivery.

*As regards Items 1668 to 1678, and 1685, the rates are based on Electrolytic Copper Wire Bars at £50 per ton, and are required to be adjusted by adopting the Australian equivalent price for Electrolytic Wire Bars and are subject to the corresponding variation in the Australian equivalent price of Electrolytic Copper Wire bars according to the London metal quotations as published in the *Argus* on date of receipt of order and the buying rate for T.T. on London.

*As regards Items 1679 and 1680, the rates are based on £55 per ton, which is the Australian equivalent of the London Metal Exchange price for Electrolytic Copper Wire Bars published in the *Argus* and are to be varied 1/10th of a penny per lb. of sheets for each complete 17s. 6d. or part thereof per ton by which the Australian equivalent price on the date of receipt of order is greater than £55 per ton or less than £55 per ton respectively. If on any day no price of wire bars is published, the price last published shall apply. If no buying rate is quoted by the Associated banks for T.T. on London on any day, the rate last published shall apply.

*As regards Items 1681 and 1682, the rates are based on £46 3s. per ton, which is the equivalent in Australian currency for Electrolytic Copper Wire Bars and are to be varied up or down by 1/10th of a penny per lb. of copper for each complete 20s. or part thereof by which the price in Australian currency of wire bars published on the date of receipt of order is greater than £46 19s. 11d. or less than £46 per ton respectively. Same stipulations and adjustments in this regard apply as shown for Items 1639 to 1666, and 1686 above.

Delivery.—Three to four weeks from receipt of order.

As regards Item 1686A, the rate is based on Electrolytic Copper Wire Bars at a minimum of £40 per ton. Any rise in the price of Electrolytic Copper Wire Bars above £40 per ton, as published in the *Argus* on the date of receipt of order will be added to the contract rate.

As regards Item 1683, the rate is based on Electrolytic Copper Wire Bars at £37 10s. per ton and is to be varied by 1/10th of a penny per lb. for every alteration of 17s. 6d. or part thereof in the price of Electrolytic Copper Wire Bars. The rate to be adjusted on the London price of Electrolytic Wire Bars on the date of receipt of order. The price to also alter to cover exchange on the rise or fall in the published London price of Electrolytic Wire Bars on the date of receipt of order.

Owing to the uncertainty of business conditions Knox Schlapp & Co. and British Insulated Cables Ltd. have made it a condition that each order is subject to confirmation after the order is received and before it is accepted.

Names of Manufacturers—

Items 1639 to 1666, 1681, 1682, and 1686—Metal Manufacturers Pty. Ltd., Port Kembla.

Items 1667-1678, 1679, 1680 and 1685—Austral Bronze Co. Ltd., Sydney.

Item 1686A—Brass Co. of Aust., Melbourne.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
	Copper Tubing, Solid Drawn, in 14' to 18' lengths							
1639	20 S.W. gauge, ⅝" outside diameter	N.S.W.	1 cwt.	lb.	*0	2	2·1	Knox Schlapp & Co.
1640	18 " " " "	"	15 "	"	*0	1	7	
1641	16 " " " "	"	1 "	"	*0	1	8·6	
1642	16 " " " "	"	1 "	"	*0	1	8·6	
1643	16 " " " "	"	11 "	"	*0	1	6·7	
1644	16 " " " "	"	6 "	"	*0	1	6·4	
1645	14 " " " "	"	13 "	"	*0	1	5·7	
1646	14 " " " "	"	9 "	"	*0	1	5·1	
1647	14 " " " "	"	14 "	"	*0	1	5·1	
1648	14 " " " "	"	1 "	"	*0	1	3·8	
1649	12 " " " "	"	39 "	"	*0	1	4·1	
1650	12 " " " "	"	36 "	"	*0	1	3·4	
1651	12 " " " "	"	1 "	"	*0	1	3·1	
1652	10 " " " "	"	19 "	"	*0	1	3·1	
1653	10 " " " "	"	42 "	"	*0	1	3·1	
1654	10 " " " "	"	1 "	"	*0	1	3·1	
1655	10 " " " "	"	1 "	"	*0	1	3·1	
1656	10 " " " "	"	1 "	"	*0	1	3·1	
1657	8 " " " "	"	9 "	"	*0	1	4·4	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per---	Rate.			Name of Contractor.	
					£	s.	d.		
COPPER TUBING, ETC.— <i>continued.</i>									
	Copper Tubing, Solid Drawn, in 14' to 18' lengths— <i>continued.</i>								
1658	$\frac{3}{16}$ " 4" outside diameter ..	N.S.W.	1 cwt.	lb.	*0	1	3·8	Knox Schlapp & Co.	
1659	$\frac{3}{16}$ " 5 $\frac{1}{2}$ " " " ..	"	5 "	"	*0	1	4·4		
1660	$\frac{3}{16}$ " 5 $\frac{1}{2}$ " " " ..	"	18 "	"	*0	1	4·4		
1661	$\frac{1}{4}$ " 3 $\frac{1}{2}$ " " " ..	"	1 "	"	*0	1	3·8		
1662	$\frac{1}{4}$ " 4 $\frac{1}{2}$ " " " ..	"	1 "	"	*0	1	3·8		
1663	$\frac{1}{4}$ " 5 $\frac{1}{2}$ " " " ..	"	1 "	"	*0	1	4·4		
1664	$\frac{1}{4}$ " 6" " " ..	"	15 "	"	*0	1	4·4		
1665	$\frac{1}{4}$ " 6 $\frac{1}{2}$ " " " ..	"	5 "	"	*0	1	5·4		
1666	$\frac{3}{16}$ " 4 $\frac{1}{2}$ " " " ..	"	120 "	"	*0	1	3·8		
1667	Copper Phosphor, 15 per cent.	"	10 "	"	0	1	3		
1668	Copper Rod, Electrolytic — $\frac{3}{16}$ " diameter ..	"	50 lb.	cwt.	*6	3	6	Austral Bronze Co. by their Attorney, Noyes Bros. (Melb.) Pty. Ltd.)	
1668A	$\frac{1}{4}$ " " " " ..	"			*5	18	6		
1669	$\frac{3}{16}$ " " " " ..	"			*5	16	0		
1669A	$\frac{1}{2}$ " " " " ..	"			*5	14	0		
1670	$\frac{1}{2}$ " " " " ..	"			*5	14	0		
	Copper Rod for Loco. Fire Boxes (Rolled)—								
1671	$\frac{1}{2}$ " diameter ..	N.S.W.	3 tons	ton	*113	10	0		
1672	1" " " " ..	"	10 "	"	*113	10	0		
1673	$\frac{1}{16}$ " " " " ..	"	6 "	"	*113	10	0		
1674	$\frac{1}{4}$ " " " " ..	"	3 "	"	*113	10	0		
1675	$\frac{1}{32}$ " " " " ..	"	5 cwt.	"	*113	10	0		
1676	$\frac{1}{16}$ " " " " ..	"	5 "	"	*113	10	0		
1677	$\frac{1}{8}$ " " " " ..	"	5 "	"	*113	10	0		
1678	$\frac{1}{2}$ " " " " ..	"	2 tons	"	*1·3	10	0		
1679	Copper Sheet, best hard rolled, Nos. 12 to 34 Birmingham Sheet Gauges, as ordered, any sizes ordered	"	25 cwt.	lb.	*0	1	6		
1680	Copper Sheet, best soft rolled, Nos. 12 to 34 Birmingham Sheet Gauge, as ordered any size ordered	"	15 "	"	*0	1	5	Geo. White & Co.	
1681	Copper Strip, Hard Drawn, No. 10 S.W.G., 2 $\frac{1}{2}$ inches wide, to be supplied in standard coils of 130 lb. (To Specification)	"	360 feet	"	*0	1	4·1		
1682	Copper Strip, Hard Drawn, No. 10 S.W.G., 1 $\frac{1}{2}$ inches wide, to be supplied in standard coils of 130 lb. (To Specification) or in straight lengths of not less than 12 feet	"	3,600 "	"	*0	1	2·1	British Insulated Cables Ltd.	
1683	Half Moon Copper Strip, to Drawing No. 1131 and to Specification manufactured from raw material and in coils of approximately 80 to 112 lb.	"	4,000 "	"	*0	1	3·4	National Wire Products of Aust. Ltd.	
1684	Manganese Bronze Hexagonal Rod, to Specification. Width across flats 0·595 in. min. to 0·600 in. max.	"	4,500 lb.	"	Nil	
1684A	Manganese Bronze Hexagonal Rod to Specification. Width across flats 0·815 in. min. to 0·820 in. max.	"	1,100 "	"	..	..	..
†1685	Copper Angle for contactor tips ..	N.S.W.	750 "	cwt.	*6	15	4	Austral Bronze Co. Ltd. Attorney, Noyes Bros. (Melb.) Pty. Ltd.	
1686	Arsenical Copper Tube, to Specification ..	"	1,200 feet	lb.	*0	1	5·6	Knox Schlapp & Co. Brass Co. of Australia Pty. Ltd.	
1686A	Copper Strip, for Pantographs to Specification	Vict.	15,700 lb.	"	*0	1	2 $\frac{1}{2}$		

METALS—ALUMINIUM, ANTIMONY, BRASS (ROD, SHEET, AND TUBING), LEAD, AND ZINC.

SPECIFICATION FOR ALUMINIUM INGOTS—(Item No. 1687), ANTIMONY INGOTS (Item No. 1688).

Particulars.—(a) Aluminium. The Aluminium Ingots shall contain not less than 98 per cent. of virgin aluminium.

(b) Antimony. The Regulus of Antimony Ingots shall contain not less than 99·5 per cent. of antimony.

The materials shall be free from all injurious defects and shall be of uniform quality.

METALS—ALUMINIUM, ANTIMONY, ETC.—*continued.*

Branding.—The manufacturer's name or trade mark and a brand indicating that the materials are of the quality specified shall be cast, stamped or otherwise durably and legibly marked on each ingot of Aluminium and Antimony.

Samples.—The tenderer shall submit with his tender a sample ingot of the Aluminium and Antimony he tenders to supply, such samples shall be tested by the Corporation and all deliveries of Aluminium and Antimony under this contract shall show no appreciable variation to such sample.

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the corporation at its premises. At least one ingot from each delivery of Aluminium and Antimony will be tested and held as representing the lot from which it was taken.

Rejection.—In the event of the material failing to comply in any particular with this Specification it shall be liable to rejection.

SPECIFICATION FOR BRASS ROD (HARD ROLLED)—*Items Nos. 1689-1741.*

Particulars.—The Brass Rods shall be in accordance with Specification No. 218-1925 of the British Engineering Standards Association (except where shown otherwise in this Specification).

Chemical Analysis.—The Brass Rods shall show on analysis—

Copper	..	..	..	Min. 58 per cent., Max. 63 per cent.
Lead	..	..	..	Min. 1.5 per cent., Max. 2 per cent.
Zinc	..	..	..	The remainder
Total impurities	..	..	..	Not more than 0.75 per cent.

Limits of Tolerance.—The Brass Rod shall be true to the ordered dimensions within the limits of tolerance shown opposite the various items in the Schedule. Where no tolerance is shown opposite any item in the Schedule, the Brass Rod shall be not more than 0.002" over or 0.002" under the specified thickness or diameter.

Inspection and Tests.—All inspection and tests will be conducted by and at the cost of the Corporation, at its premises.

Rejection.—Should the Brass Rod fail to comply in any particular with this Specification it shall be liable to rejection.

Defects showing during Fabrication.—Should any portion of a Brass Rod show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified and provided the Brass Rod has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective Brass Rod.

SPECIFICATION FOR BRASS SHEET—*Items 1742 to 1749.*

Particulars.—The Brass Sheet shall be in accordance with British Standard Specification No. 266-1928, for 65/35 Brass Sheet, except where shown otherwise in this Specification.

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises.

Rejection.—Should the Brass Sheet fail to comply in any particular with this Specification it shall be liable to rejection.

Defects showing during Fabrication.—Should any portion of a Brass Sheet show injurious defects in course of fabrication by the Corporation the Contractor shall be notified and provided the Brass Sheet has been properly treated by the Corporation, the Contractor shall at his own expense and under the discretion of the Comptroller of Stores replace or make good the defective Brass Sheet.

SPECIFICATION FOR BRASS TUBING—*Items Nos. 1750-1763.*

Chemical Analysis.—The tubes shall consist of an alloy of copper and zinc and shall contain not less than 60 per cent. of metallic copper and not more than a total of 0.75 per cent. of materials other than copper and zinc.

Freedom from Defects.—The tubes shall be clean, smooth and free from surface defects or longitudinal grooving both internally and externally, and the ends shall be clean and square.

Limits of Tolerance.—The tubes shall be of the dimensions specified in the order subject to the working margins given below. They shall be straight and cylindrical, of uniform thickness, concentric, and of uniform external diameter throughout.

The working margins shall be as follow :—

On Length—

Tubes 10' in length and under, plus or minus $\frac{1}{16}$ ".
Tubes over 10' in length, plus or minus $\frac{1}{8}$ ".

On External Diameter—

Tubes 2" diameter and under, plus or minus .008".
Tubes above 2" and under 4", plus or minus .016".
Tubes 4" diameter and over, plus or minus .031".

On Thickness—

Plus or minus half a standard wire gauge.

METALS.—SPECIFICATION FOR BRASS TUBING, ETC.—*continued.*

The thickness of each tube shall at all points be as close as possible to that ordered. Local variations from this thickness shall be limited in number and extent, and in no such case shall the thickness be more than .008" below that ordered.

Flattening and Doubling Over Test.—All test material shall be annealed before testing and shall comply with the following mechanical test without further annealing.

The test piece shall stand the following test when cold without showing either crack or flaw. The test piece shall be flattened out until the interior surfaces of the tube meet and then be doubled over on itself, i.e., bent through an angle of 180 degrees, the bend being at right angles to the direction of the length of the tube.

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises.

Rejection.—Should the material fail to comply in any particular with the Specification it will be liable to rejection.

Defects showing during Fabrication.—Should any portion of Brass Tube show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified and provided the Brass Tube has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective Brass Tube.

SPECIFICATION FOR PIG LEAD—*Items Nos. 1764 and 1765, AND LEAD SHEET—
Item No. 1766.*

Particulars.—(a) Pig Lead (remelted), Item 1764.

The Pig Lead as set opposite *Item No. 1764* shall be manufactured from reworked lead and shall be free from injurious defects and shall be of uniform quality.

(b) Pig Lead (produced from raw material), Item 1765.

The Pig Lead as set opposite *Item 1765*, shall be manufactured from ore or similar raw materials, by processes of reduction and refining, and shall not be produced from reworked material. It shall be free from injurious defects and shall be of uniform quality.

(c) Lead Sheet—*Item 1766.*

The Lead Sheet shall be manufactured from pig produced from raw materials, it shall be of even thickness throughout, smooth and free from all injurious defects.

Samples.—The tenderer shall submit with his tender a sample of the pig lead (remelted), pig lead (produced from raw material), and the sheet lead he tenders to supply. Such samples shall be tested by the Corporation, and all deliveries of lead under this Contract shall show no appreciable variation to such sample.

Branding.—The manufacturers' name or trade mark and a brand indicating that the material is of the quality specified shall be cast, or otherwise durably and legibly marked on each pig and marked on each sheet.

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises. One pig and one sheet shall be taken from each ton in each delivery of the lead, and shall be tested and held as representing the lot from which it was taken.

Rejection.—In the event of the material failing to comply in any particular with this Specification, it shall be liable to rejection.

SPECIFICATION FOR ELECTROLYTIC ZINC INGOTS—*Item No. 1767, AND ZINC SHEET
—Items Nos. 1768 and 1769.*

Particulars.—(a) Electrolytic Zinc Ingots shall contain not less than 99.9 per cent. of Zinc. They shall be free from all injurious defects and of a uniform quality.

(b) Zinc Sheets. The Zinc Sheets shall be of the best quality and of even thickness, smooth and free from all injurious defects.

Samples.—The tenderer shall submit with his tender a sample of the Zinc Ingots and Sheets he tenders to supply, such samples shall be tested, and all deliveries of Zinc under this Contract shall show no variation to such sample.

Branding.—The manufacturer's name or trade mark shall be cast or otherwise durably and legibly marked on each ingot and marked on each sheet.

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation on its premises. At least one ingot and one sheet from each delivery will be tested and held as representing the lot from which it was taken.

Defects showing during Fabrication.—Should any portion of a Zinc sheet show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the zinc sheet has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Zinc Sheet.

Delivery.—With the exception of *Item 1688* all materials specified in this schedule shall be delivered to the Metropolitan Receiving Depot, and the weights as ascertained at the time of delivery at that depot shall be accepted. *Item 1688* shall be delivered at Newport Workshops by and at cost of Contractor.

Tenders may be lodged based on the price of Electrolytic Copper Wire Bars, provided the basis and method of adjusting the rate is also furnished.

METALS.—SPECIFICATION FOR ELECTROLYTIC STEEL INGOTS—*continued.*

The Lead (Items Nos. 1764, 1766) and Zinc (Item No. 1767) shall be paid for at the latest cabled market spot price for Lead and Spelter respectively quoted in the Melbourne morning daily newspapers prior to the service of the order (unless, in the judgment of the Comptroller of Stores, the price quoted as aforesaid does not correctly represent the market price for Lead or Spelter prevailing on the day of the date of such cabled market price) less or plus the sum set opposite to Items Nos. 1764 and 1766 in the Schedule, as the case may be, always provided that if, in the judgment of the Comptroller of Stores, the cabled market price quoted as aforesaid in the Melbourne morning daily newspaper, or any of them, does not correctly represent the market price for Lead or Spelter prevailing on the day of the date of such cabled market price, then the market price prevailing on such day shall be determined by the Comptroller of Stores on evidence satisfactory to him, and such determination by the Comptroller of Stores shall be final and binding, and the rate of payment for the Lead or Zinc referred to on the particular order shall be in accordance with the price so determined by the Comptroller of Stores, less or plus the sum as the case may be, set opposite to Items Nos. 1764, 1766 and 1767 as aforesaid.

As regards Items Nos. 1691 to 1741, two tenders have been accepted—The Austral Bronze Co. Ltd. and Brass Co. of Aust. The tender of the Austral Bronze Co. Ltd. is slightly lower, and the business is to be allotted in the proportion of two-thirds and one-third respectively.

*As regards Items Nos. 1689, 1690 and 1691A to 1740A (Brass Co. of Aust. Pty. Ltd.) the rates quoted are based on £60 per ton for Electrolytic Copper Wire Bars, and will vary 2s. 4d. per cwt. for every £5 or part per ton variation in the published price of Electrolytic Copper Wire Bars on the date of receipt of an order by the Contractor with a minimum of £40 per ton.

*As regards Items Nos. 1691 to 1741 (Austral Bronze Co., by their Attorney, Noyes Bros. (Melb.) Pty. Ltd.), the rates are based on Electrolytic Copper Bars Wire at over £50 to £55 per ton and will vary by 2s. 4d. per cwt. for every £5 or part per ton variation in the published price of Electrolytic Copper Wire Bars in the *Argus* newspaper on the date of receipt of order by the Contractor.

*As regards Items Nos. 1750 to 1763, the rates are based on Electrolytic Copper Wire Bars at £55 per ton which is the Australian equivalent of the London Metal Exchange price for Electrolytic Copper Wire Bars, and will vary up or down by one-tenth of a penny per lb., for each complete 17s. 6d. or part thereof by which the Australian equivalent price of Wire Bars published in the *Argus* newspaper on the date of receipt of an order is greater than £55 per ton or less than £55 per ton. If on any day no price of Wire Bars is published the price last published shall apply. If no buying rate is quoted by the Associated Banks for T.T. on London on any day, the rate last published shall apply.

*As regards Item No. 1769 the rate is based on Spelter at £12 per ton, and will vary up or down by one-tenth of a penny per lb. for each complete 17s. 6d. or part thereof by which the price of Spelter published in the *Argus* newspaper on the date of receipt of an order is greater than £12 per ton or less than £12 per ton. If on any day no price of Spelter is published the price last published shall apply.

*As regards items 1768 and 1769 the Contract rates are plus T.T. Exchange on date of delivery on 80%.

Names of Manufacturers—

- Item 1687—Ingot Metals Ltd.
- „ 1688—Brazenhall Mining Co.
- „ 1689/1740A—Brass Co. of Australia.
- „ 1691/1740—Austral Bronze Co.
- „ 1741/1749c—Defence Department Ammunition Factory.
- „ 1750/1763 Metal Manufacturers Ltd.
- „ 1764—O. T. Lempriere Ltd.
- „ 1768—I.C.I. Metals Ltd.
- „ 1769—Veille Montagne.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
METALS.								
†1687	Aluminium, Ingot	Vict.	10 cwt.	cwt.	3	19	0	Ingot Metals Ltd.
†1688	Antimony, Ingot, Regulus of, 99.5 per cent. pure	N.S.W.	230 „	do.	2	15	0	Brazenhall Mining & Smelting Company Limited.
					<small>delivered at Newport Work Shops.</small>			
BRASS.								
1689	Brass Rod, hexagon, hard rolled, in 6' to 8' lengths, Whitworth standard— $\frac{3}{16}$ " width across flat	Vict.	} See next page	do.	*4	18	0	Brass Co. of Aust. Pty. Ltd.
1690	$\frac{1}{4}$ " width across flat, max. .255, min. .250 for nuts	„		do.	*4	18	0	Brass Co. of Aust. Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<i>METALS—continued.</i>						
<i>BRASS—continued.</i>						
1691	Brass Rod, hexagon, hard rolled, in 6' to 8' lengths, Whitworth standard— <i>continued.</i> $\frac{21}{64}$ " width across flat, max. .338, min. .333 for $\frac{1}{8}$ " nuts	N.S.W.		cwt.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1691A	$\frac{21}{64}$ " " " " " "	Vict.		do.	*4 18 0	Brass Co. of Aust. Pty. Ltd.
1692	$\frac{7}{16}$ " width across flat, max. .448, min. .443, for $\frac{3}{16}$ " nuts	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1692A	$\frac{7}{16}$ " " " " " "	Vict.		do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.
1693	$\frac{33}{64}$ " width across flat, max. .525, min. .520, for $\frac{1}{4}$ " nuts	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1693A	$\frac{33}{64}$ " " " " " "	Vict.		do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.
1694	$\frac{19}{32}$ " width across flat, max. .600, min. .595, for $\frac{5}{16}$ " nuts	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1694A	$\frac{19}{32}$ " " " " " "	Vict.		do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.
1695	$\frac{45}{61}$ " width across flat, max. .710, min. .705, for $\frac{3}{8}$ " nuts	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1695A	$\frac{45}{61}$ " " " " " "	Vict.		do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.
1696	$\frac{3}{4}$ " width across flat,	N.S.W.	See next page	do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1696A	$\frac{3}{4}$ " " " " " "	Vict.		do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.
1697	$\frac{13}{16}$ " width across flat, max. 820, min. .815, for $\frac{7}{16}$ " nuts	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1697A	$\frac{13}{16}$ " " " " " "	Vict.		do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.
1698	$\frac{29}{32}$ " width across flat, max. .920, min. .915, for $\frac{1}{2}$ " nuts	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1698A	$\frac{29}{32}$ " " " " " "	Vict.		do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.
1699	$1\frac{1}{64}$ " width across flat, max. 1.010, min. 1.002 for $\frac{9}{16}$ " nuts	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1699A	$1\frac{1}{64}$ " " " " " "	Vict.		do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.
1700	$1\frac{3}{32}$ " width across flat, max. 1.1, min. 1.092, for $\frac{3}{8}$ " nuts	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1700A	$1\frac{3}{32}$ " " " " " "	Vict.		do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.
1701	$1\frac{13}{64}$ " width across flat, max. 1.200, min. 1.192, for $\frac{11}{16}$ " nuts	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1701A	$1\frac{13}{64}$ " " " " " "	Vict.		do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.		Name of Contractor.
					£	s. d.	
<i>METALS—continued.</i>							
<i>BRASS—continued.</i>							
1702	Brass Rod, hexagon, hard rolled, in 6' to 8' lengths, Whitworth standard— <i>continued.</i> 1 ¹⁹ / ₆₄ " width across flat, max. 1·300, min. 1·292, for ³ / ₄ " nuts	N.S.W.		cwt.	*4	4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1702A	1 ¹⁹ / ₆₄ " " " " " " " Vict.			do.	*4	8 8	Brass Co. of Aust. Pty. Ltd.
1703	1 ²⁵ / ₆₄ " width across flat, max. 1·390, min. 1·382 for ¹³ / ₁₆ " nuts	N.S.W.		do.	*4	4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1703A	1 ²⁵ / ₆₄ " " " " " " " Vict.			do.	*4	8 8	Brass Co. of Aust. Pty. Ltd.
1704	1 ³¹ / ₆₄ " width across flat, max. 1·480, min. 1·472 for ⁷ / ₈ " nuts	N.S.W.		do.	*4	4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1704A	1 ³¹ / ₆₄ " " " " " " " Vict.			do.	*4	8 8	Brass Co. of Aust. Pty. Ltd.
1705	1 ⁴³ / ₆₄ " width across flat, max. 1·670, min. 1·662 for 1" nuts	N.S.W.		do.	*4	4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1705A	1 ⁴³ / ₆₄ " " " " " " " Vict.			do.	*4	8 8	Brass Co. of Aust. Pty. Ltd.
1706	1 ⁵⁵ / ₆₄ " width across flat, max. 1·860, min. 1·850, for 1 ¹ / ₂ " nuts	N.S.W.	200 cwt.	do.	*4	4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1706A	1 ⁵⁵ / ₆₄ " " " " " " " Vict.			do.	*4	8 8	Brass Co. of Aust. Pty. Ltd.
1707	2 ³ / ₆₄ " width across flat, max. 2·050, min. 2·040 for 1 ¹ / ₄ " nuts	N.S.W.		do.	*4	4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1707A	2 ³ / ₆₄ " " " " " " " Vict.			do.	*4	8 8	Brass Co. of Aust. Pty. Ltd.
1708	2 ⁷ / ₃₂ " width across flat " " " " " " " N.S.W.			do.	*4	4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1708A	2 ⁷ / ₃₂ " " " " " " " Vict.			do.	*4	8 8	Brass Co. of Aust. Pty. Ltd.
1709	2 ¹³ / ₃₂ " width across flat " " " " " " " N.S.W.			do.	*4	4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1709A	2 ¹³ / ₃₂ " " " " " " " Vict.			do.	*4	8 8	Brass Co. of Aust. Pty. Ltd.
1710	2 ⁵ / ₈ " width across flat " " " " " " " N.S.W.			do.	*4	4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1710A	2 ⁵ / ₈ " " " " " " " Vict.			do.	*4	8 8	Brass Co. of Aust. Pty. Ltd.
1711	2 ³ / ₄ " " " " " " " N.S.W.			do.	*4	4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1711A	2 ³ / ₄ " " " " " " " Vict.			do.	*4	8 8	Brass Co. of Aust. Pty. Ltd.
1712	Brass Rod, round, hard rolled, in 6' to 8' lengths for general use, or drop forgings, as ordered— ¹ / ₂ " diameter " " " " " " " N.S.W.			do.	*4	18 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.

See
previous
page.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per--	Rate.	Name of Contractor.
					£ s. d.	
METALS—continued.						
<i>BRASS—continued.</i>						
Brass, Rod, round, hard rolled, in 6' to 8' lengths for general use, &c.— <i>continued.</i>						
1712A	$\frac{1}{8}$ " diameter	Vict.		cwt.	*5 12 0	Brass Co. of Aust. Pty. Ltd.
1713	$\frac{3}{16}$ "	N.S.W.		do.	*4 8 8	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1713A	$\frac{3}{16}$ "	Vict.		do.	*5 2 8	Brass Co. of Aust. Pty. Ltd.
1714	$\frac{1}{4}$ "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1714A	$\frac{1}{4}$ "	Vict.		do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.
1715	$\frac{5}{16}$ "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1715A	$\frac{5}{16}$ "	Vict.		do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.
1716	$\frac{3}{8}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1716A	$\frac{3}{8}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1717	$\frac{7}{16}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1717A	$\frac{7}{16}$ "	Vict.	See next page.	do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1718	$\frac{1}{2}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1718A	$\frac{1}{2}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1719	$\frac{9}{16}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1719A	$\frac{9}{16}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1720	$\frac{5}{8}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1720A	$\frac{5}{8}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1721	$\frac{11}{16}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1721A	$\frac{11}{16}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1722	$\frac{3}{4}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1722A	$\frac{3}{4}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1723	$\frac{13}{16}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1723A	$\frac{13}{16}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
METALS—continued.						
	BRASS—continued.					
	Brass rod, round, hard rolled, in 6' to 8' lengths— <i>continued.</i>					
1724	$\frac{7}{8}$ " diameter	N.S.W.		cwt.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1724A	$\frac{7}{8}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1725	$\frac{15}{16}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co., Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1725A	$\frac{15}{16}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1726	1"	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1726A	1"	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1727	$1\frac{1}{8}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1727A	$1\frac{1}{8}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1728	$1\frac{3}{16}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1728A	$1\frac{3}{16}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1729	$1\frac{1}{4}$ "	N.S.W.	100 cwt.	do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1729A	$1\frac{1}{4}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1730	$1\frac{3}{8}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1730A	$1\frac{3}{8}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1731	$1\frac{1}{2}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1731A	$1\frac{1}{2}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1732	$1\frac{5}{8}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1732A	$1\frac{5}{8}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1733	$1\frac{3}{4}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1733A	$1\frac{3}{4}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.
1734	$1\frac{7}{8}$ "	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1734A	$1\frac{7}{8}$ "	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate.		Name of Contractor.	
				per—	£ s. d.		
METALS—continued.							
<i>BRASS—continued.</i>							
Brass Rod, round, hard rolled, in 6' to 8' lengths— <i>continued.</i>							
1735	2" diameter	N.S.W.	See previous page.	cwt.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1735A	2"	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.	
1736	2½"	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1736A	2½"	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.	
1737	2½"	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1737A	2½"	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.	
1738	2½"	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1738A	2½"	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.	
1739	2¾"	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1739A	2¾"	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.	
1740	3"	N.S.W.		do.	*3 19 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1740A	3"	Vict.		do.	*4 4 0	Brass Co. of Aust. Pty. Ltd.	
Brass Rod, square, hard rolled, in 6' to 8' lengths—							
1741	1" square	N.S.W.		1 cwt.	do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1741A	1"	Vict.			do.	*4 8 8	Brass Co. of Aust. Pty. Ltd.
Brass Sheet, hard rolled, as specified—							
1742	6' x 2' x 30 B. gauge	Vict.		14 cwt.	lb.	0 1 3½	Noyes Bros. (Melb.) Pty. Ltd., as agents for Defence Department Ammunition Factory
1742A	6' x 2' x 28 B. gauge	"	do.		0 1 2¾		
1742B	6' x 2' x 26 B. gauge	"	do.		0 1 2½		
1742C	6' x 2' x 24 B. gauge	"	do.		0 1 1¾		
1742D	6' x 2' x 22 B. gauge	"	do.		0 1 1½		
1742E	6' x 2' x 20 or 18 B. gauge	"	do.		0 1 1¼		
1742F	6' x 2' x 16, 14 or 12 B. gauge	"	do.		0 1 1		
1742G	6' x 2' x 10 B. gauge	"	do.		0 1 0¾		
1743	6' x 2' x any of the following thicknesses as ordered:—3/16", ¼", or 5/16"	"	do.		0 1 0¾		
1744	6' x 3' x 24 B. gauge	"	do.		0 1 2¾		
1744A	6' x 3' x 20 or 18 B. gauge	"	do.		0 1 2½		
1744B	6' x 3' x 16, 14 or 12 B. gauge	"	do.		0 1 2		
1744C	6' x 3' x 10 B. gauge	"	do.		0 1 1½		
1745	4' x 2' x 30 B. gauge	"	do.		0 1 3¾		
1745A	4' x 2' x 28 B. gauge	"	do.		0 1 2¾		
1745B	4' x 2' x 26 B. gauge	"	do.		0 1 2½		
1745C	4' x 2' x 24 B. gauge	"	do.		0 1 1¾		
1745D	4' x 2' x 22 B. gauge	"	do.	0 1 1½			
1745E	4' x 2' x 20 or 18, B. gauge	"	do.	0 1 1¼			
1745F	4' x 2' x 16, 14 or 12 B. gauge	"	do.	0 1 1			
1745G	4' x 2' x 10 B. gauge	"	do.	0 1 0¾			

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
METALS—continued.						
BRASS—continued.						
	Brass, Sheet, annealed as specified—					
1746	6' or 4' x 2' x 30 B. gauge	Vict.	14 cwt.	lb.	0 1 3 ³ / ₄	Noyes Bros. (Melb.) Pty. Ltd. as agents for Defence Department Ammunition Factory
1746A	6' or 4' x 2' x 28 B. gauge	"		do.	0 1 2 ³ / ₄	
1746B	6' or 4' x 2' x 26 B. gauge	"		do.	0 1 2 ¹ / ₄	
1746C	6' or 4' x 2' x 24 B. gauge	"		do.	0 1 1 ³ / ₄	
1746D	6' or 4' x 2' x 22 B. gauge	"		do.	0 1 1 ¹ / ₂	
1746E	6' or 4' x 2' x 20 or 18 B. gauge	"		do.	0 1 1 ¹ / ₄	
1746F	6' or 4' x 2' x 16, 14 or 12 B. gauge	"		do.	0 1 1	
1746G	6' or 4' x 2' x 10, 9 or 8 B. gauge	"		do.	0 1 0 ³ / ₄	
1747	6' x 2' x 3/16" or 1/4" thick	"		do.	0 1 0 ³ / ₄	
1748	4' x 1' x 1/2", 3/8", 1/4" or 1"	"		do.	0 1 0 ³ / ₄	
1749	6' x 3' x 22 B. gauge	"		do.	0 1 2 ³ / ₄	
1749A	6' x 3' x 20 or 18 B. gauge	"		do.	0 1 2 ¹ / ₄	
1749B	6' x 3' x 16, 14 or 12 B. gauge	"		do.	0 1 2	
1749C	6' x 3' x 10 B. gauge	"		do.	0 1 1 ³ / ₄	
	Brass Tubing (except Boiler Tubes) solid drawn, any length ordered—					
1750	1/4" outside diameter x 26, 24, 22, 18 or 16 S.W. gauges, as ordered	N.S.W.	650 lbs.	do.	*0 2 6	George White & Co.
1751	5/16" outside diameter x 24, 20, 18 or 16 S.W. gauges, as ordered	"		do.	*0 2 6	
1752	3/8" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 2 1.5	
1753	7/16" outside diameter x 20, 18, 16 or 14 S.W. gauges, as ordered	"		do.	*0 2 1.5	
1754	1/2" outside diameter x 20, 18, 16, 14 or 10 S.W. gauges, as ordered	"		do.	*0 2 0	
1755	5/16" outside diameter x 20, 18 or 16 S.W. gauges, as ordered	"		do.	*0 1 11	
1756	3/8" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 10.5	
1757	1/4" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 10	
1758	5/16" outside diameter x 22, 16 or 10 S.W. gauges, as ordered	"		do.	*0 1 10	
1759	3/8" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 10	
1760	1" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 10	
1761	1 1/8" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 10	
1762	1 1/4" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 10	
1763	1 1/2" outside diameter x 20, 18, 16, 14, 12, or 10 S.W. gauges, as ordered	"		do.	*0 1 10	
LEAD.						
†1764	Lead, Pig, soft (re-melted) or alternatively	N.S.W.	28 tons	ton	Market Rate Less. *0 2 6	O. T. Lempriere & Co.
†1765	Lead, Pig, soft, produced from raw material	"	1 ton		Market Rate Plus.	Nil.
†1766	Lead, Sheet, any thicknesses ordered, and cut to any sizes ordered	Vict. (partly.)	6 tons		*16 0 0	Walter Coop
ZINC.						
1767	Zinc, Electrolytic, 99.9 per cent.	Tas.	5 cwt.	cwt.	*0 8 0	Briscoe & Co. Ltd.
†1768	Zinc, Sheet, Perforated, 84 holes to the square inch, each hole 0.085" diameter, No. 6 Zinc Gauge (0.011"), in sheets 7' x 3' or 8' x 3', as ordered	U.K.	150 sq. ft.	sq. ft.	*0 0 2	
†1769	Zinc, Plain, No. 8 Zinc Gauge (0.015"), 9 Zinc Gauge (0.017"), 10 Zinc Gauge (0.019"), 11 Zinc Gauge (0.021"), 12 Zinc Gauge (0.025"), 13 Zinc Gauge (0.028"), 14 Zinc Gauge, (0.031"), as ordered, by any size ordered	Belgium	2 cwt.	cwt.	*0 0 4 ¹ / ₂		Geo. White & Co.
1776 to 1780	Nil.					

IRON.

SPECIFICATION FOR WROUGHT IRON FLATS—ITEM 1781 AND WROUGHT IRON BARS—ITEMS 1782 TO 1784B).

Particulars.—The Wrought Iron Flats and Bars shall be in accordance with Specification No. 51-1929 of the British Engineering Standards Association as applied to Best Yorkshire Grade (except where shown otherwise in this Specification).

The W.I. Bars shown opposite 1784B for crown stays shall be as specified above, except that the nicked bend test shall be performed at each end of each bar. The fracture test shall not be performed on these bars.

The W.I. Bars shall be commercially straight.

Limits of Tolerance.—The W.I. Flats and Bars (Item 1784a excepted) shall be true to the ordered dimensions within the following limits of tolerance :—

	Minus.	Plus.
Up to ½" diameter, thickness or width	0·007"	0·007"
Over ½" to 1" diameter, thickness or width	0·010"	0·010"
Over 1" to 2" diameter, thickness or width	1- ₃₂ "	1- ₃₂ "
Over 2" to 3" diameter, thickness or width	1- ₁₆ "	1- ₁₆ "
Over 3" to 5" diameter, thickness or width	1- ₈ "	1- ₈ "
Over 5" to 8" diameter, thickness or width	1"	1"

Item 1784a for the manufacture of Steam Tight Studs,
 ¾ in. and over, minus nil. Plus 0·020
 ½ in. and ¾ in., minus nil. Plus 0·015,

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises.

Rejection.—Should the material fail to comply in any particular with this Specification it shall be liable to rejection.

Defects showing during Fabrication.—Should any portion of a W.I. Flat or Bar show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the W.I. Flat or Bar has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Wrought Iron Flat or Bar.

Painting.—Each Flat and Bar shall prior to delivery be clearly and durably painted on each end with RED paint by and at the cost of the Contractor.

ROLLED IRON (AUSTRALIAN).

The whole of the Scrap for the manufacture of the Rolled Iron under this Contract shall be purchased by the Contractor from the Corporation, and except as hereinafter provided shall be paid for by the Contractor at a fixed rate of £1 per ton, delivered in trucks at Spencer-street Railway Station, and the rates set opposite to items numbered respectively 1785 to 1801 in this Schedule must include the cost of the said Scrap.

To cover waste in the case of the Double Rolled Iron, the Contractor shall purchase as aforesaid 25 per centum of Scrap in excess of any quantity of Double Rolled Iron which may be ordered from time to time. To cover waste in the case of the Treble Rolled Iron, the Contractor shall purchase as aforesaid 30 per centum of Scrap in excess of any quantity of Treble Rolled Iron which may be ordered from time to time. Provided in the event of the Contractor requiring for the purposes of this Contract any quantity of Scrap exceeding the respective percentages as aforesaid, then in every such case he shall pay for such excess at the rate of £1 10s. per ton. Payment at the rate or rates aforesaid shall be made by the Contractor to the Chief Accountant of the Victorian Railways (within 48 hours after demand) for any Scrap which may be supplied to the Contractor from time to time as hereinbefore provided, and failing payment as aforesaid, the Corporation shall be entitled to deduct any amount owing for the said Scrap from any money due, or which may become due, to the Contractor under this Contract.

Only the net weight of Rolled Iron delivered (after crop and bad ends have been cut off) shall be paid for.

The Rolled Iron shall be entirely manufactured from the Scrap purchased from the Corporation as aforesaid, and shall be paid for by the Corporation on the basis of the net weight of such Rolled Iron, when supplied and delivered in strict accordance with all the provisions and requirements of the annexed Conditions of Contract and this Schedule, and to the satisfaction in every respect of the Comptroller of Stores.

SPECIFICATION DOUBLE ROLLED IRON—Items 1785 TO 1797 (inclusive).

Freedom from Defects.—All Rolled Iron Bars and Flats shall be sound, free from flaws, cracks, cropends, and any other injurious defects and finished in a workmanlike manner.

The R.I. Bars shall be commercially straight.

Rolling and Cutting Margin.—The Rolled Iron Bars and Flats shall be well and cleanly rolled, true to the ordered dimensions within the following limits of tolerance.

	Minus.	Plus.
Up to ½" diameter, thickness or width	0·007"	0·007"
Over ½" to 1" diameter, thickness or width	0·010"	0·010"
Over 1" to 2" diameter, thickness or width	1- ₃₂ "	1- ₃₂ "
Over 2" to 3" diameter, thickness or width	1- ₁₆ "	1- ₁₆ "
Over 3" to 5" diameter, thickness or width	1- ₈ "	1- ₈ "
Over 5" to 8" diameter, thickness or width	1"	1"

The Bars and Flats shall be cut to the ordered length within the following limits of tolerance. Plus 2", minus nil.

Tensile Tests.—Double Rolled Iron Bars and Flats. An Australian Standard Test Piece "A" or test piece "B" (only if the material as rolled does not permit of the cutting of test piece "A") cut from the Flats, and an Australian Standard test piece "B" cut from the Bars as rolled, for round and square bars up to 1" diameter or thickness, or turned down for bars over 1" diameter or thickness, shall show a tensile breaking strength of 21 to 24 tons per square inch, with an elongation of not less than 18 per cent.

Any straightening of test pieces which may be required shall be done cold.

Number of Tensile Tests.—One tensile test will be taken from every 3 tons or portion thereof in each delivery of rolled iron, and shall be held as representing the lot from which it was taken.

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

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

Defects showing during Fabrication.—Should any portion of a Flat or Bar show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the Flat or Bar has been properly treated by the Corporation the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Flat or Bar.

Painting.—The Rolled Iron shall, prior to delivery, be clearly and durably painted at each end by and at the expense of the Contractor as follows, that is to say :—

Double Rolled Iron shall be painted with White Paint.

Treble Rolled Iron shall be painted with Black Paint.

SPECIFICATION TREBLE ROLLED IRON—Items 1798 to 1801.

Treble Rolled Iron, shall be in accordance with the Specification for Double Rolled Iron, except that the tensile test pieces shall show a tensile breaking strength of 22 to 25 tons per square inch, with an elongation of not less than 22 per cent.

IRON.—SPECIFICATION FOR DOUBLE ROLLED IRON—continued.

SPECIFICATION. INGOT IRON BARS AND BILLETS—Items 1802 to 1831 inclusive.

Chemical Analysis.—The Ingot Iron Bars and Billets shall show on analysis :—

Carbon	Maximum	0·10 per cent.
Sulphur	"	0·07 "
Phosphorus	"	0·07 "
Silicon—Minimum 0·15 per cent.	"	0·30 "
Manganese—Minimum 0·40 per cent.	"	0·60 "

The Contractor shall submit an analysis of each cast with each delivery of Ingot Iron. The Corporation shall have the right to make a check analysis if it so desires, and the chemical composition so determined shall be in accordance with the above requirements. All analysis shall be carried out in accordance with requirements of Specification No. K1-1926 of the Australian Commonwealth Engineering Standards Association.

Freedom from Defects.—The Ingot Iron Bars and Billets shall be free from cracks, surface flaws, laminations and any other injurious defects. Sufficient discard shall be cropped to remove all pipe or contraction cavities. The Billets and Bars shall be cut square on the ends and finished in a workmanlike manner, and shall be commercially straight.

Rolling and Cutting Margin.—The Ingot Iron Bars shall be true to the ordered dimensions within the following limits of tolerance :—

	Minus.	Plus.
Up to $\frac{1}{2}$ " diameter, thickness or width	0·007"	0·007"
Over $\frac{1}{2}$ " to 1" diameter, thickness or width	0·010"	0·010"
Over 1" to 2" diameter, thickness or width	$\frac{1}{64}$ "	$\frac{1}{32}$ "
Over 2" to 3" diameter, thickness or width	$\frac{1}{32}$ "	$\frac{1}{16}$ "
Over 3" to 5" diameter, thickness or width	$\frac{1}{16}$ "	$\frac{1}{8}$ "
Over 5" to 8" diameter, thickness or width	$\frac{1}{8}$ "	$\frac{1}{4}$ "

The Ingot Iron Billets shall be true to the ordered dimensions within the following limits of tolerance :—

Section dimensions under 4"—Plus or minus $\frac{1}{16}$ ".
Section dimensions 4" to 6"—Plus $\frac{1}{8}$ ", minus $\frac{1}{16}$ ".
Length, plus 2", minus nil.

Branding and Painting.—Each Bar and Billet shall be distinctly stamped with the cast number and the manufacturer's name or trade mark, and a brand indicating that it is Ingot Iron, and shall be painted white with a black band on each end, by and at the cost of the Contractor.

Impact Test.—A test piece 10 mm square, having a 45 degree notch 2 mm. deep, shall be machined cold from the material in the case of Ingot Iron Bars as received, and in the case of Billets, after normalising by heating to 920 deg. C. and cooling freely in the air. Such test piece shall absorb not less than 60 foot lb. of energy when broken in a standard Izod impact testing machine. One Impact test shall be taken from each cast in each delivery of Ingot Iron and shall be held as representing the lot from which it was taken.

Brinell Test.—The Ingot Iron Bars, and Billets shall show a hardness number of not less than 100 when measured by the Brinell test.

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

Defects showing during Fabrication.—Should any portion of an Ingot Iron Bar or Billet show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the Ingot Iron Bar or Billet has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Ingot Iron Bar or Billet.

SPECIFICATION FOR NUT INGOT IRON—Item No. 1833.

Particulars.—The Nut Ingot Iron shall have a sulphur content of from 0·10 per cent. to 0·20 per cent. Except for this, the Impact test and the Hardness test, the Nut Ingot Iron shall be in accordance with the Specification for Ingot Iron.

In the event of the Iron tendered under this Schedule being of Australian manufacture, the Contractor shall, during the currency of this Contract, furnish the Comptroller of Stores, with the address or addresses of the place or places at which the Iron is being manufactured, and the Comptroller of Stores, or any person appointed by him from time to time, shall at all times during business hours have free access to such place or places, and shall be afforded every facility for inspecting the Iron while in process of manufacture. No sub-letting will be allowed.

*As regards Items Nos. 1826, to 1828 the rates are based on the condition that the billets can be rolled from 6-in. ingots. Should it be necessary to forge from larger than 6-in. ingots the rates are to be increased to £17 5s. 0d. per ton.

Delivery.—

Delivery of Items Nos. 1781 to 1801 will be given in trucks at Spencer-street and items 1802-33 at Contractors' Siding, Little Brooklyn.

As regards items 1781-1784b. should there be any reduction in the rate of T. T. Exchange below £30 10s. 0d. per cent. the rates shall be subject to variation to the satisfaction of the Comptroller of Stores on all material ordered after the expiration of two months.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.		Name of Contractor.
					£	s. d.	
1781	Wrought Iron (Yorkshire Grade) as specified— Flat Bars—All sizes mentioned for Double Rolled Iron—Items 1785-1794 Round or Square Bars, any length ordered by any of the following diameters or thicknesses ordered—	Vict. and U.K.	8 tons	ton	*29	10 0	Melbourne Iron and Steel Mills Pty. Ltd.
1782	up to $\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	Vict. and U.K.	95 "	do.	*29	10 0	
1783	Over $\frac{1}{2}$ " up to 1 $\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	U.K.		do.	*29	10 0	
1784	Over 1 $\frac{1}{2}$ " up to 3" advancing by $\frac{1}{8}$ "	"		do.	*29	10 0	
1784A	$\frac{1}{2}$ " $\frac{3}{8}$ ", $\frac{1}{2}$ ", or $\frac{3}{4}$ ", or 1" diameter.	"		do.	*29	10 0	
1784B	Round Bars for steam tight studs 1" diameter. Bars for Crown Stays	"		do.	*29	10 0	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.		
					£ s. d.			
IRON—continued.								
Double Rolled Iron (as specified)—								
Flat Bars, any length ordered, and in any of the following thicknesses and sizes as ordered—								
1785	$\frac{3}{8}$ " and $\frac{7}{8}$ " x $\frac{7}{16}$ " to $\frac{3}{8}$ ", advancing by $\frac{1}{32}$ "	Vict.	} 145 tons	ton	15 5 0	} Melbourne Iron and Steel Mills Pty. Ltd.		
1786	1" x $\frac{1}{4}$ " to $\frac{3}{8}$ "	"		do.	15 5 0			
1787	$1\frac{1}{8}$ " x $\frac{1}{4}$ " to $\frac{3}{8}$ "	"		do.	15 5 0			
1788	$1\frac{1}{4}$ " x $\frac{1}{4}$ " to $\frac{3}{8}$ "	"		do.	15 5 0			
1789	$1\frac{3}{8}$ " and $1\frac{1}{2}$ " x $\frac{1}{4}$ " to 1"	"		do.	15 5 0			
1790	$1\frac{3}{4}$ " and 2" x $\frac{1}{4}$ " to $1\frac{1}{4}$ "	"		do.	15 5 0			
1791	$2\frac{1}{4}$ ", $2\frac{1}{2}$ " and $2\frac{3}{4}$ " x $\frac{1}{4}$ " to $1\frac{1}{2}$ "	"		do.	15 5 0			
1792	3", $3\frac{1}{2}$ " 4" and $4\frac{1}{2}$ " x $\frac{1}{4}$ " to 2"	"		do.	15 5 0			
1793	5" and $5\frac{1}{2}$ " x $\frac{1}{4}$ " to $2\frac{1}{2}$ "	"		do.	15 5 0			
1794	6" x $\frac{1}{4}$ " to 2"	"		do.	15 5 0			
Round or Square Bars, any length ordered by any of the following diameters or thicknesses ordered—								
1795	$\frac{1}{2}$ " up to $\frac{3}{8}$ " advancing by $\frac{1}{16}$ "	"		} 150 "	do.		15 5 0	
1796	Over $\frac{3}{8}$ " up to $1\frac{1}{4}$ " advancing by $\frac{1}{16}$ "	"			do.		15 5 0	
1797	Over $1\frac{1}{2}$ " up to 3" advancing by $\frac{1}{8}$ "	"			do.		15 5 0	
Treble Rolled Iron (as specified)—								
Round or Square Bars, any length ordered, by any of the following diameters or thickness ordered—								
1798	$\frac{1}{2}$ " up to $\frac{3}{8}$ " advancing by $\frac{1}{16}$ "	"	} 30 "	do.	21 0 0			
1799	Over $\frac{3}{8}$ " up to $1\frac{1}{4}$ " advancing by $\frac{1}{16}$ "	"		do.	21 0 0			
1800	Over $1\frac{1}{2}$ " up to 3" advancing by $\frac{1}{8}$ "	"		do.	21 0 0			
1801	Over 3" up to 4" advancing by $\frac{1}{4}$ "	"		do.	21 0 0			
Ingot Iron (as specified)—								
Flat Bars, any length ordered, and in any of the following thicknesses and sizes as ordered—								
1802	1" and $1\frac{1}{8}$ " x $\frac{1}{4}$ " to $\frac{3}{8}$ " advancing by $\frac{1}{32}$ "	"	} 50 "	do.	15 5 0	} Melbourne Iron and Steel Mills Pty. Ltd.		
1803	$1\frac{1}{4}$ " x $\frac{1}{4}$ " to $\frac{3}{8}$ " advancing by $\frac{1}{32}$ "	"		do.	15 5 0			
1804	$1\frac{3}{8}$ " and $1\frac{1}{2}$ " x $\frac{1}{4}$ " to 1" advancing by $\frac{1}{32}$ "	"		do.	15 5 0			
1805	$1\frac{3}{4}$ " and 2" x $\frac{1}{4}$ " to $1\frac{1}{4}$ " advancing by $\frac{1}{32}$ "	"		do.	15 5 0			
1806	$2\frac{1}{4}$ ", $2\frac{1}{2}$ ", and $2\frac{3}{4}$ " x $\frac{1}{4}$ " to $1\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	"		do.	15 5 0			
1807	$2\frac{1}{2}$ " x 2"	"		do.	15 5 0			
1808	Nil	"		do.	15 5 0			
1809	3" x $\frac{1}{4}$ " to 2" advancing by $\frac{1}{16}$ "	"		do.	15 5 0			
1810	$3\frac{1}{4}$ " x $1\frac{1}{2}$ " to $2\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	"		do.	15 5 0			
1811	Nil	"		do.	15 5 0			
1812	$3\frac{1}{2}$ " x $\frac{3}{8}$ " to $2\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	"		do.	15 5 0			
1813	$3\frac{3}{4}$ " x $1\frac{1}{2}$ " to $2\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	"		do.	15 5 0			
1814	4", $4\frac{1}{2}$ ", and 5" x $\frac{3}{8}$ " to 2" advancing by $\frac{1}{16}$ "	"		do.	15 5 0			
1815	$4\frac{1}{4}$ " x $1\frac{1}{2}$ " to 2" advancing by $\frac{1}{16}$ "	"		do.	15 5 0			
1816	$4\frac{3}{4}$ " x $1\frac{1}{2}$ " to 2" advancing by $\frac{1}{16}$ "	"		do.	15 5 0			
1817	$5\frac{1}{4}$ ", $5\frac{1}{2}$ ", and $5\frac{3}{4}$ " x $1\frac{1}{4}$ " to $1\frac{3}{4}$ " advancing by $\frac{1}{16}$ "	"		do.	15 5 0			
1818	6" x $\frac{3}{8}$ " to $1\frac{3}{4}$ " advancing by $\frac{1}{16}$ "	"		do.	15 5 0			
Ingot Iron (as specified)—								
Round or Square Bars, any length ordered, by any of the following diameters or thicknesses ordered—								
1819	From $\frac{3}{8}$ " up to $1\frac{1}{4}$ " advancing by $\frac{1}{16}$ "	Vict.	} 150 "	ton	15 5 0	} Melbourne Iron and Steel Mills Pty. Ltd.		
1820	Over $1\frac{1}{4}$ " up to 3" advancing by $\frac{1}{8}$ "	"		do.	15 5 0			
1821	Over 3" up to 4" advancing by $\frac{1}{4}$ "	"		do.	15 5 0			
1821A	Over 4" up to $4\frac{1}{2}$ " advancing by $\frac{1}{4}$ "	"		do.	15 5 0			

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<i>IRON—continued.</i>						
	Ingot Iron Billets (as specified)—					
1822	1½" x 1½" x trade lengths	Vict.	25 tons	ton	12 15 0	Melbourne Iron and Steel Mills Pty. Ltd.
1823	2" x 2"	"	4 "	do.	12 15 0	
1824	2½" x 2½"	"	13 "	do.	12 15 0	
1825	2½" x 2½"	"	8 "	do.	12 15 0	
1826	3" x 3"	"	8 "	do.	*14 15 0	
1827	3½" x 3½"	"	15 "	do.	*14 15 0	
1828	4" x 4" x trade lengths (with corners rounded), approx. ½" rad.	"	15 "	do.	*14 15 0	
1829	4½" x 4½" x trade lengths (with corners rounded), approx. ½" rad.	"	13 "	do.	17 5 0	
1830	5" x 5" x trade lengths (with corners slightly rounded), approx. ½" rad.	"	20 "	do.	17 5 0	
1831	5½" x 5½" x trade lengths (with corners slightly rounded)	"				
1832	6" x 4" x lengths ordered (with corners slightly rounded, approx. ½" rad.)	"				
	Ingot Nut Iron (as specified)—					
	In trade lengths					
1833	For all sizes of nuts from ½" to 2" ...	"	45 "	do.	15 5 0	
1834 to 1838	Nil.					

* See note on page 88.

STEEL.

SPECIFICATION FOR DOGSPIKE STEEL (Item No. 1839), and FISHBOLT NUT STEEL (Items Nos. 1842-1843.)

Particulars.—The Dogspike and Fishbolt Nut Steel shall be in accordance with Specification No. A1-1928 of the Australian Commonwealth Engineering Standards Association for "A" class steel as applied to round bars (clause 5, paragraph "B") for Dogspike Steel, and as applied to flat bars for Fishbolt Nut Steel (except where shown otherwise in this Specification).

Rolling Margin.—The Steel Bars shall be commercially straight and true to the ordered dimensions within the following limits of tolerance:—

	Plus.	Minus.
Over ½ inch up to 1 inch diam., thickness or width	0·010 inch	0·010 inch
Over 1 inch up to 2 inches diam., thickness or width	0·0156 inch	0·0156 inch

Cutting Margin.—2 inches over, nothing under.

Painting.—The ends of each steel bar shall be painted (by and at the cost of the Contractor) with blue paint.

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

SPECIFICATION FOR FISHBOLT STEEL (Items Nos. 1840 and 1841).

Particulars.—The Fishbolt Steel shall be in accordance with Australian Standard Specification No. E25-1928 (except where shown otherwise in this Specification).

Rolling Margin.—The Steel Bars shall be commercially straight and within the following limits of tolerance:—

	Plus.	Minus.
Over ½ inch diam., up to 1 inch diam.	0·010 inch	0·010 inch

Cutting Margin.—2 inches over, nothing under.

Branding.—The Steel Bars shall be delivered in bundles, and shall have a metal tag attached to each bundle legibly marked with the Cast number, the manufacturer's name or trade mark. The bars shall be branded or painted on the ends with a distinctive colour indicating that they are Fishbolt quality steel.

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

SPECIFICATION FOR MILD STEEL SECTIONS, FLATS, ROUND, RIVET AND SQUARE BARS (Items Nos. 1844 to 1899 and 1901 to 1903).

Particulars.—The Mild Steel Sections, Flats, Round and Square Bars shall (except where shown otherwise in this Specification) be in accordance with Specification No. A1-1928 of the Australian Commonwealth Engineering Standards Association for Class "A" Steel. A Standard Test piece "B" taken from the Rivet Bars shall show a tensile breaking strength of 24 to 28 tons per square inch, with an elongation of not less than 27 per cent.

Rolling Margin.—The Mild Steel Flats, Round, Rivet and Square Bars shall be commercially straight, and shall be true to the ordered dimensions within the following limits of tolerance:—

	Minus.	Plus.
Up to ½ inch diam., thickness or width	0·007 inch	0·007 inch
Over ½ inch to 1 inch diam., thickness or width	0·010 "	0·010 "
Over 1 inch to 2 inches diam., thickness or width	1/64 "	1/32 "
Over 2 inches to 3 inches diam., thickness or width	1/32 "	3/64 "
Over 3 inches to 5 inches diam., thickness or width	1/32 "	3/32 "
Over 5 inches to 8 inches diam., thickness or width	1/16 "	3/8 "

As regards Items Nos. 1864 to 1877, Angles may be required cold straightened. The order will indicate whether this additional service is required. An extra charge of 5s. per ton will be made by Contractor.

STEEL.—SPECIFICATION FOR MILD STEEL SECTION, ETC.—continued.

Painting.—All Mild Steel Flats and Bars (Rivet Bars excepted) shall, prior to delivery, be clearly and durably painted on each end with Blue Paint, and Rivet Bars shall be clearly and durably painted on the ends with Green Paint, all painting to be done by and at the cost of the Contractor.

Defects Showing During Fabrication.—Should any Mild Steel Section, Flat or Bar, show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the Mild Steel Section, Flat or Bar, has been properly treated by the Corporation, the Contractor shall at his own expense, and at the discretion of the Comptroller of Stores, replace or make good the defective Mild Steel Section, Flat or Bar.

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

SPECIFICATION FOR ROUND EDGE STEEL FLAT F OR DRAFT KEYS (Item No. 1901).

Particulars.—The Steel Flat shall be in accordance with the particulars shown on V.R. Drawing No. 7645. It shall be manufactured by an approved process, and shall show on analysis not more than 0.04 per centum of Sulphur or of Phosphorous and a standard test piece "C" shall show a tensile breaking strength of 32 tons per square inch with an elongation of not less than 25 per cent., to 38 tons per square inch with an elongation of not less than 20 per cent. In all other respects it shall be in accordance with Specification No. A1—1928 of the Australian Commonwealth Engineering Standards Association.

The Steel Flat shall be commercially straight.

Branding.—The Steel Bars shall be legibly marked with the cast number, the manufacturer's name or trade mark.

Defects Showing During Fabrication.—In the event of any Steel Bar showing injurious defects in course of fabrication, by the Corporation, the Contractor shall be notified, and provided the Steel Bar has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Steel Bar.

Rejection.—Should the material fail to comply in any particular with this Specification it will be liable to rejection.

SPECIFICATION FOR HOOP STEEL (Items Nos. 1904 to 1917), and MILD STEEL SHEETS (Items Nos. 1918 to 1943).

Particulars.—The Hoop Steel and Mild Steel Sheets shall be in accordance with Specification No. 18—1911 of Report No. 24 of the British Engineering Standards Association or Australian Standard Specification No. A1—1928 (except where shown otherwise in this Specification).

Rolling and Cutting Margin.—No hoop or sheet shall be more than 0.01 inches under the specified thickness.

No hoop or sheet shall be more than the percentage of the calculated weight stated in the table shown below. The calculated weight shall be on the basis that one cubic inch of rolled steel weighs 0.2833 lb.

Thickness	Up to 48 in. wide	Over 48 in. to 60 in. wide	Over 60 in. to 84 in. wide
Under ½ inch	% 9	% 10	% 12
½ inch to 3/16 inch exclusive	8	9	10

No sheet shall be under nor more than ½ inch and ¾ inch over the specified length and width respectively.

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

Defects Showing During Fabrication.—Should any portion of a Hoop or Sheet show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the Hoop or Sheet has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Sheet or Hoop.

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

SPECIFICATION FOR SPRING STEEL (Items Nos. 1944 to 1948) FOR LAMINATED, VOLUTE AND HELICAL SPRINGS.

Particulars.—The Spring Steel as shown opposite *Item 1944* shall be in accordance with Australian Standard Specification No. E3—1930, and the Spring Steel as shown opposite *Items 1945 to 1947* shall be in accordance with Australian Standard Specification No. E5—1930 (except where shown otherwise in this Specification).

The Spring Steel shall be commercially straight.

Chemical Analysis, etc.—The Spring Steel shall show on analysis—

Steel for Laminated Springs— <i>Items Nos. 1944 and 1948</i> —	Steel for Volute and Helical Springs— <i>Items Nos. 1945 to 1947</i> —
Carbon—0.5 to 0.6 per cent.	Carbon—0.85 to 0.95 per cent.
Manganese—0.55 to 0.7 per cent.	Manganese—0.55 to 0.70 per cent.
Sulphur } 0.05 maximum.	Sulphur } 0.05 maximum.
Phosphorous }	Phosphorous }

The Contractor shall supply a chemical analysis and documentary evidence that each cast of steel in each delivery has passed the specified tests. The Steel for Volute and Helical Springs shall be capable of being oil hardened.

Branding.—Each bar shall be stamped with the Manufacturer's name or trade mark and the cast number, but if delivered in bundles a metal tag shall be attached to each bundle legibly marked with the necessary information.

Brinell Test.—The Steel for Laminated Springs as delivered shall show a Brinell hardness number of not more than 212.

Cutting Margin.—2" over, nothing under.

Painting.—The Bars for Laminated Springs shall, prior to delivery, be clearly and durably painted on each end with Yellow Paint. The Bars for Volute and Helical Springs shall, prior to delivery, be clearly and durably painted on each end with Purple Paint. All paintings shall be performed by and at the cost of the Contractor.

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

SPECIFICATION FOR "BESCOM" STEEL ROUND BARS (GRADE B). Items Nos. 1949 to 1951.

Manufacture.—The steel shall be carefully made and sufficient ingot discard shall be removed to secure freedom from piping and undue segregation.

Treatment of Ingots.—The Round Bars shall be rolled from ingots at least six times the sectional area of the bars.

Freedom and Defects.—The Round Bars shall be free from roakes, seams, laps or other defects of any kind.

Branding.—The cast number and the manufacturer's brand, indicating that it is "Bescom" quality Grade "B" steel, shall be legibly stamped on the end of all bars by the manufacturer. For small diameter bars bundled, a metal tag marked with the necessary information will be sufficient.

STEEL—SPECIFICATION FOR "BEESOM" STEEL, ETC.—*continued.*

Rolling Margin.—The "Beesom" Steel Round Bars shall be commercially straight and shall be true to the ordered dimensions within the following limits of tolerance:—

	Minus.	Plus.
Over ½ inch to 1 inch diam.	0·010 inch	0·010 inch
Over 1 inch to 2 inch diam.	1/64 "	1/32 "
Over 2 inch to 3 inch diam.	1/32 "	3/64 "
Over 3 inch to 5 inch diam.	1/32 "	3/32 "

Chemical Analysis.—The Round Bars shall conform to the following chemical requirements:—

	Maximum.	Minimum.
Carbon	0·40 per cent.	0·35 per cent.
Silicon	0·30 "	0·10 "
Manganese	1·7 "	1·4 "
Sulphur	0·05 "	—
Phosphorus	0·05 "	—

The Manufacturer shall supply a chemical analysis of each cast with each delivery.

The Corporation shall make a check analysis, if it so desires, and the chemical composition so determined shall be in accordance with the above requirements.

Inspection and Tests.—Inspections and tests will be conducted by and at the cost of the Corporation on its premises.

Defects Showing During Fabrication.—Should any portion of a Round Bar show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the Round Bar has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective round bar.

Rejection.—In the event of the Round Bars failing to comply with this Specification they will be liable to rejection.

* The Contracts for Steel are subject to the following conditions:—

Broken Hill Pty. Co. Ltd., and McPherson's Pty. Ltd., as agents for the Australian Iron and Steel Limited.

Rates cover delivery c.i.f. Melbourne, but wherever practicable delivery will be given direct from ship's slings into railway trucks, in order that cartage charges may be obviated.

Wharfage and stevedoring is to the Department's account, and copy of order to be forwarded to Shipping Clerk.

Contractor's Certificate of Inspection will be accepted, and such certificate shall be forwarded to the Comptroller of Stores covering each delivery, by the Contractor.

In the event of any steel after delivery at Melbourne not being in good order and condition or being found to be faulty during course of fabrication, provided the material has been properly treated by the Corporation, and the Contractor is notified, same shall be replaced free of charge to the Department c.i.f., Melbourne.

Weights as ascertained over the company's weighbridge in the presence of the Inspecting Engineer, will be accepted, provided the full number of bars is received at Melbourne.

A copy of each order issued is to be forwarded to the Inspecting Engineer requesting him to witness weighing and forward certificate. (Inspection by Inspecting Engineer not required.)

Sufficient time for rolling and shipping is to be allowed for each order placed, and orders are to be placed in such a way as to make reasonable rolling tonnages when practicable.

In the event of the current market prices falling or rising during the currency of this Contract, such fall or rise, as the case may be, shall be debited or credited in respect to the undelivered balance of any material ordered, as at the date of such alteration in the price.

As regards Items Nos. 1944a to 1947 the sizes shown are those usually rolled by the Company, but if additional sizes be required the Company will endeavour to manufacture and will supply at the contract rate.

In connexion with Items Nos. 1944 and 1944a provided satisfactory service is given, two thirds of the business should be allotted to Broken Hill Pty. Ltd. and one-third to McPherson's Pty. Ltd.

Melbourne Iron and Steel Mills Pty. Ltd.

The rates tendered are subject to adjustment by mutual arrangement between the Comptroller of Stores and the Contractor, should there be any alteration in the working hours or wages due to Arbitration Court Awards.

In the event of there being any rise or fall in the price of Broken Hill Pty. Co.'s Mild Steel Blooms or Billets, the contract rates shall be adjusted by a like amount plus 10 percent. to cover waste.

As regards Item No. 1901, delivery will be given into railway trucks at Little Brooklyn; the balance at Spencer-street.

As regards Items Nos. 1851, 1852, 1855 and 1856, the minimum quantity to be ordered of any section is 3 tons.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
DOGSPIKE STEEL.								
1839	Steel, Dogspike, Bar, ¾", round, in 18' to 20' lengths	N.S.W.	150 tons	ton	12	7	0	The Broken Hill Pty. Co. Ltd.
FISHBOLT AND NUT STEEL. IN 18'-20' LENGTHS								
1840	Steel, Fishbolt— ¾" diameter	N.S.W.	Nil	..	Nil			The Broken Hill Pty. Co. Ltd.
1841	1" diameter		20 tons	ton	12	7	0	
Steel, Fishbolt, Nut—								
1842	1 13/32" x 1 5/16", for manufacture of 7/8" nuts	N.S.W.	Nil	do.	13	17	0	The Broken Hill Pty. Co. Ltd.
1843	1 9/16" x 1 5/8", for manufacture of 1" nuts		7 tons	do.				

Item No.	Description.	Country of Manufacture.	Estimated Requirements,	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
STEEL—continued.						
MILD STEEL.						
Steel, Rivet, round, in 18'-20' lengths—						
1844	$\frac{51}{64}$ " diameter	Nil	Nil
1845	$\frac{59}{64}$ "	Vict.	8 tons	ton	15 0 0	Melbourne Iron & Steel Mills Pty. Ltd.
1846	$\frac{47}{64}$ "	(partly)	46 "	do.	15 0 0	
1847	$\frac{51}{64}$ "	"	30 "	do.	15 0 0	
1848	$\frac{55}{64}$ "	"	13 "	do.	15 0 0	
1849	$\frac{59}{64}$ "	Nil	Nil
1850	$\frac{63}{64}$" .. .. .	.. .. .	Nil	.. .. .	.. .. .
Mild Steel, Channel, and Fishplate to sections specified and gauges supplied—						
1851	To section of Locking Ring, Drawing No. 40·5 and to Gauge Drawing No. 48·2 in lengths as ordered, to cut 8' 4" or 8' 10" without waste	Vict.	†3 tons	ton	28 0 0	Melbourne Iron & Steel Mills Pty. Ltd.
1852	To section of Channel Drawing 40·6 and to Gauge Drawing No. 48·1 in lengths as ordered, to cut 8' 2" or 8' 8" without waste	(partly)	†3 "	do.	25 0 0	
1853	To section of Tire Retaining Ring, Drawing No. 6748, amended 10/8/31, to cut 9' 9" lengths without waste	"	7 "	do.	25 0 0	
1854	Mild Steel Channel, 2" x 1½" up to 27' in length	1 "	Nil
*1855	Mild Steel Channel, in lengths from 12' to 23'	Vict.	†3 "	ton	19 10 0	Melbourne Iron & Steel Mills Pty. Ltd.
*1856	Mild Steel Fishplate, for Channel	(partly)	†3 "	do.	19 10 0	" "
1857	Mild Steel Channels— 4" x 2" by 7·09 lb. up to 30' in length, as ordered	N.S.W.	1 "	do.	14 19 0	Briscoe & Co. Ltd.
1858	6" x 3" x 12·41 lb. up to 35' in length, as ordered	"	20 "	do.	14 7 6	
1859	7" x 3" x 14·22 lb. up to 35' in length, as ordered	1 "	Nil
1860	10" x 3½" x 24·46 lb. in 22' lengths, or trade lengths, as ordered	N.S.W.	25 "	ton	14 7 6	Briscoe & Co. Ltd.
Angle of equal and unequal sides of the following sizes, thicknesses, and lengths, advancing by $\frac{1}{32}$ " in thickness— (If Angles under items 1864-1877 require to be cold straightened, an extra 5s. per ton will be charged. Orders to indicate whether cold straightening is necessary.)						
1861	1" x 1" x $\frac{1}{8}$ " to $\frac{1}{4}$ " up to 35' long	Vict.	ton	15 0 0	Melbourne Iron & Steel Mills Pty. Ltd.
1861A	$1\frac{1}{8}$ " x $1\frac{1}{8}$ " x $\frac{1}{8}$ " up to 35' long	(partly)	.. .. .	do.	15 0 0
1862	$1\frac{1}{8}$ " x $1\frac{1}{8}$ " x $\frac{3}{16}$ " to $\frac{1}{4}$ " up to 35' long .. .. .	"	.. .. .	do.	15 0 0
1863	$1\frac{1}{8}$ " x $1\frac{1}{4}$ " x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 35' long .. .. .	"	.. .. .	do.	15 0 0
1864	$1\frac{1}{8}$ " x $1\frac{1}{2}$ " x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 30' long .. .. .	"	.. .. .	do.	15 0 0
1865	$1\frac{1}{8}$ " x $1\frac{3}{4}$ " x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 30' long .. .. .	"	.. .. .	do.	15 0 0
1866	2" x 2" x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 30' long .. .. .	"	.. .. .	do.	15 0 0
1867	2½" x 2½" x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 30' long .. .. .	"	.. .. .	do.	15 0 0
1868	2½" x 2½" x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 30' long .. .. .	"	.. .. .	do.	15 0 0
1869	3" x 3" x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 30' long	"	100 tons	do.	15 0 0	
1870	3½" x 3½" x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 30' long .. .. .	"	.. .. .	do.	15 0 0
1871	4" x 4" x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 25' long .. .. .	"	.. .. .	do.	15 0 0
1872	1½" x 1" x $\frac{1}{4}$ " up to 35' long .. .. .	"	.. .. .	do.	15 0 0
1873	3" x 2" x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 35' long .. .. .	"	.. .. .	do.	15 0 0
1874	3" x 2½" x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 35' long .. .. .	"	.. .. .	do.	15 0 0
1875	3½" x 3" x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 35' long .. .. .	"	.. .. .	do.	15 0 0
1876	4" x 3" x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 35' long .. .. .	"	.. .. .	do.	15 0 0
1877	5" x 2½" x $\frac{1}{4}$ " to $\frac{3}{8}$ " up to 25' long .. .. .	"	.. .. .	do.	15 0 0
1878	6" x 4" x $\frac{1}{4}$ " up to 30' long	N.S.W.	do.	14 9 0	Briscoe & Co. Ltd.
1879	6" x 4" x $\frac{1}{4}$ " up to 30' long .. .. .	.. .. .	.. .. .	do.	14 9 0

† Minimum quantity to be ordered of any section—3 tons.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
STEEL—continued.							
MILD STEEL—continued.							
	Flat, from $\frac{3}{8}$ " to 9" wide, of the following thickness and sizes, and any lengths, as ordered—						
1879A	$\frac{3}{8}$ " x $\frac{1}{4}$ "	Vict. (partly)	1 ton	ton	18 0 0	Melbourne Iron & Steel Mills Pty. Ltd.	
1880	$\frac{3}{8}$ " x $\frac{7}{16}$ " to $\frac{1}{2}$ ", advancing by $\frac{1}{32}$ "	"		do.	14 2 6		
1881	$\frac{3}{8}$ " x $\frac{1}{16}$ " to $\frac{1}{8}$ "	"		do.	14 2 6		
1882	1" x $\frac{1}{4}$ " to $\frac{3}{8}$ "	"		do.	14 2 6		
1883	1 $\frac{1}{2}$ " x 1" to $\frac{3}{4}$ "	"		do.	14 2 6		
1884	1 $\frac{1}{2}$ " x $\frac{1}{2}$ " to $\frac{3}{4}$ "	"		do.	14 2 6		
1885	1 $\frac{1}{2}$ " x $\frac{1}{4}$ " to 1"	"		do.	14 2 6		
1886	1 $\frac{1}{2}$ " x $\frac{1}{8}$ " to 1"	"		do.	14 2 6		
1887	1 $\frac{1}{2}$ " x $\frac{1}{4}$ " to 1"	"		do.	14 2 6		
1888	2" x $\frac{1}{4}$ " to 1 $\frac{1}{4}$ "	"		do.	14 2 6		
1889	2 $\frac{1}{2}$ " x $\frac{1}{4}$ " to 1 $\frac{3}{4}$ "	"		do.	14 2 6		
1890	2 $\frac{1}{2}$ " x $\frac{1}{2}$ " to 1 $\frac{1}{2}$ "	"	400 "	do.	14 2 6		
1891	3" x $\frac{1}{4}$ " to 2"	"		do.	14 2 6		
1892	3 $\frac{1}{2}$ " x $\frac{1}{4}$ " to 2"	"		do.	14 2 6		
1893	4" x $\frac{1}{4}$ " to 2"	"		do.	14 2 6		
1894	4 $\frac{1}{2}$ " x $\frac{1}{4}$ " to 2"	"		do.	14 2 6		
1895	5" x $\frac{1}{4}$ " to 2 $\frac{1}{2}$ "	"		do.	14 2 6		
1896	5 $\frac{1}{2}$ " x $\frac{1}{4}$ " to 2 $\frac{1}{2}$ "	"		do.	14 2 6		
1897	6" x $\frac{1}{4}$ " to 2"	"		do.	14 2 6		
1898	8" x $\frac{1}{4}$ " to 1"	"		do.	14 2 6		
1899	9" x $\frac{1}{4}$ " to 1"	"		do.	14 2 6		
1900	Flat, Round Edge, to Drawing No. 7645, 5" x 1 $\frac{1}{8}$ ", in lengths of 17' 6" Round, in trade lengths—	"	60 "	do.	17 0 0	Melbourne Iron & Steel Mills Pty. Ltd.	
1901	$\frac{1}{4}$ " diameter	"	1 "	Nil.	
1902	Round or Square, as ordered, from $\frac{1}{8}$ " to 3" in thickness or diameter as ordered, advancing by $\frac{1}{16}$ ", any lengths ordered	Vict (partly)	125 "	ton	14 2 6	Melbourne Iron & Steel Mills Pty. Ltd.	
HOOP STEEL (as Specified).							
1903	Round or Square, as ordered, 3 $\frac{1}{4}$ " to 4 $\frac{1}{2}$ " in thickness or diameter, as ordered, advancing by $\frac{1}{4}$ ", any lengths ordered	..	1 ton	Nil	
Hoop Steel, Black, as may be ordered—							
1904	9 B.G. (0·1398") x 4", 3 $\frac{1}{2}$ ", 3", 2 $\frac{1}{2}$ " or 2 $\frac{1}{4}$ " wide	Nil	
1905	9 B.G. (0·1398") x 2", 1 $\frac{3}{4}$ ", 1 $\frac{1}{2}$ ", 1 $\frac{1}{4}$ ", 1", or $\frac{3}{4}$ " wide	..	..	..	..
1906	10 B.G. (0·125") x 4" or 3" wide	..	..	..	..
1907	10 B.G. (0·125") x 2" wide	..	2 tons	..	..
1908	10 B.G. (0·125") x $\frac{3}{8}$ " or $\frac{1}{2}$ " wide	..	..	..	..
1909	11 B.G. (0·111") x 1 $\frac{3}{4}$ " or 1 $\frac{1}{2}$ " wide	..	..	..	..
1910	16 B.G. (0·0625) x 1 $\frac{1}{2}$ ", 1 $\frac{1}{4}$ " or 1" wide	..	..	..	..
Hoop Steel, Galvanized, as may be ordered—							
1911	10 B.G. (0·125") x 3", 2 $\frac{1}{2}$ ", 2", 1 $\frac{1}{2}$ ", or 1 $\frac{1}{4}$ " wide		Nil
1912	12 B.G. (0·099") x 1 $\frac{1}{2}$ " wide	..	..	..	..
1913	14 B.G. (0·0785") x 1 $\frac{1}{4}$ " wide	..	..	..	..
1914	16 B.G. (0·0625) x 2 $\frac{1}{2}$ " or 2" wide	..	2 "	..	..
1915	16 B.G. (0·0625") x 1 $\frac{3}{4}$ ", 1 $\frac{1}{4}$ ", or 1" wide	..	..	..	..
1916	18 B.G. (0·0495") x 1" wide	..	..	..	..
1917	20 B.G. (0·0392") x 1" wide	..	..	..	..
Mild Steel Sheets, Black, as may be ordered— "Lysaghts"							
1918	12' 0" x 5' 0" x No. 9 B.G. (0·1398")	Briscoe & Co. Ltd.	
1919	8' 0" x 4' 0" x No. 9 B.G. (0·1398")	..	..	..	..
1920	8' 0" x 4' 0" x No. 10 B.G. (0·125")	..	..	..	..
1921	8' 0" x 4' 0" x No. 11 B.G. (0·1113")	N.S.W.	..	ton	20 15 0		
1922	8' 0" x 4' 0" x No. 12 B.G. (0·0991")	"	..	do.	20 15 0		
1923	8' 0" x 4' 0" x No. 13 B.G. (0·0882")	"	..	do.	20 15 0		
1924	8' 0" x 4' 0" x No. 14 B.G. (0·0785")	"	..	do.	20 15 0		
1925	8' 0" x 4' 0" x No. 16 B.G. (0·0625")	"	..	do.	22 0 0		
1926	8' 0" or 7' 0" or 6' 0" x 3' 0", or 2' 6" or 2' 0" x No. 9 B.G. (0·1398")	"	5 "	do.	20 15 0		
1927	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 10 B.G. (0·125")	"	..	do.	20 15 0		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
STEEL—continued.							
<i>Mild Steel Sheets, &c.—continued.</i>							
1928	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 11 B.G. (0·1113")	N.S.W.	5 tons	ton	20 15 0	Briscoe & Co. Ltd.	
1929	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 12 B.G. (0·0991")	"		do.	20 15 0		
1930	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 13 B.G. (0·0882")	"		do.	20 15 0		
1931	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 14 B.G. (0·0785")	"		do.	20 15 0		
1932	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 16 B.G. (0·0625")	"		do.	20 15 0		
1933	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 18 B.G. (0·0495")	"		do.	22 0 0		
1934	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 20 B.G. (0·0392")	"		do.	22 0 0		
1935	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 22 B.G. (0·03125")	"		do.	22 0 0		
1936	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 24 B.G. (0·02476")	"		do.	22 15 0		
1937	6' 0" x 4' 0" x No. 9 B.G. (0·1398")	"		do.	22 15 0		
1938	6' 0" x 4' 0" x No. 10 B.G. (0·125")	"		do.	20 15 0		
1939	6' 0" x 4' 0" x No. 13 B.G. (0·0882")	"		do.	20 15 0		
1940	6' 0" x 4' 0" x No. 14 B.G. (0·0785")	"		do.	20 15 0		
1941	6' 0" x 4' 0" x No. 16 B.G. (0·0625")	"		do.	22 0 0		
1942	6' 0" x 4' 0" x No. 18 B.G. (0·0495")	"		do.	22 0 0		
1943	6' 0" x 4' 0" x No. 28 B.G. (0·0156")	"		do.	24 15 0		
SPRING STEEL.							
1944	Steel, Spring, Flat, Rolled, Concave, for the purpose of making laminated springs for engines, carriages and wagons, any lengths, and sizes ordered	N.S.W.	160 tons	ton	17 4 6	The Broken Hill Pty. Co. Ltd.	
1944A	Steel, Spring, Flat, Rolled Concave, for the purpose of making laminated springs for engines, carriages, and wagons, any lengths and in any of the following sizes as ordered, advancing by $\frac{1}{16}$ "	"		do.	17 4 6		
	1" x $\frac{1}{4}$ " to $\frac{1}{2}$ "						McPherson's Pty. Ltd.
	1 $\frac{1}{8}$ " x $\frac{1}{4}$ " to $\frac{1}{2}$ "						
	1 $\frac{1}{4}$ " x $\frac{1}{4}$ " to $\frac{1}{2}$ "						
	1 $\frac{3}{8}$ " x $\frac{1}{4}$ " to $\frac{1}{2}$ "						
	1 $\frac{1}{2}$ " x $\frac{1}{4}$ " to $\frac{1}{2}$ "						
	1 $\frac{3}{4}$ " x $\frac{1}{4}$ " to $\frac{1}{2}$ "						
	1 $\frac{1}{2}$ " x $\frac{3}{8}$ " to 1"						
	1 $\frac{3}{4}$ " x $\frac{3}{8}$ " to 1"						
	2" x $\frac{3}{8}$ " to 1"						
	2 $\frac{1}{8}$ " x $\frac{3}{8}$ " to 1"						
	2 $\frac{1}{4}$ " x $\frac{3}{8}$ " to 1"						
	2 $\frac{3}{8}$ " x $\frac{3}{8}$ " to 1"						
	2 $\frac{1}{2}$ " x $\frac{3}{8}$ " to 1"						
	2 $\frac{3}{4}$ " x $\frac{3}{8}$ " to 1"						
1945	Steel, Spring, Flat, for the purpose of making volute springs for engines, carriages, and wagons, any lengths and in any of the sizes mentioned under Item 1944a, advancing by $\frac{1}{16}$ "	"	75 "	..	17 14 6		
1946	Steel, Spring, Round, in bars of any size shown below, and cut to any lengths ordered— $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{9}{16}$ ", $\frac{5}{8}$ ", $\frac{11}{16}$ ", $\frac{3}{4}$ ", $\frac{13}{16}$ ", $\frac{7}{8}$ ", $\frac{15}{16}$ ", 1", $1\frac{1}{16}$ ", $1\frac{1}{8}$ ", $1\frac{1}{4}$ ", $1\frac{1}{2}$ ", $1\frac{3}{4}$ ", $1\frac{1}{2}$ ", $1\frac{5}{8}$ ", $1\frac{3}{4}$ "	"	85 "	..	17 14 6		
1947	Steel, Spring, Volute, in any lengths ordered— 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{1}{16}$ "	"	84 "	..	17 14 6		
1948	Steel Spring Billets— 4 $\frac{3}{8}$ " x 4 $\frac{3}{8}$ " x 7' 9" (with corners rounded)	"	..	..	..	Nil.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
STEEL—continued.						
BESCOM STEEL.						
(Grade B) as specified—						
Round Bars—						
1949	From ½" dia. up to 3" dia. (inclusive) advancing by ¼" in trade lengths	Vict. (partly)	} 20 tons	ton	19 10 0	Melbourne Iron & Steel Mills Pty. Ltd.
1950	Over 3" dia. up to 4" dia. advancing by ¼", in trade lengths .. .. .				..
1951	Over 4" dia. up to 4½" dia. advancing by ¼" in trade lengths .. .. .				..
1952 to 1976	Nil				..	

BRIGHT ROUND AND HEXAGON STEEL BARS FOR SHAFTING, ETC.

SPECIFICATION FOR BRIGHT, ROUND AND HEXAGON STEEL BARS.—Items 1977 to 2011.

Particulars.—The Bright Round and Hexagon Steel Bars shall be in accordance with British Standard Specification No. 32, 1927, for grade 2 steel (clause 1 of the B.S.S. and where stated otherwise in this Specification excepted).

Tolerance.—The Bright Steel Bars shall be within the limits of tolerance, given in Table 1 for Round Bars, and Table 3 for Hexagon Bars, in B.S. Specification No. 32, 1927.

Tests.—The Contractor shall supply documentary evidence that each cast in each delivery of Bright Steel Bars has passed the tensile tests. All other inspections will be conducted by and at the cost of the Corporation at its premises.

Defects Showing During Fabrication.—Should any portion of a Bright Steel Bar show injurious defects in course of fabrication by the Corporation the Contractor shall be notified, and provided the bar has been properly treated by the Corporation, the Contractor shall at his own expense, and at the discretion of the Comptroller of Stores, replace or make good the defective Bar.

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

As regards Items Nos. 2004 to 2011, the rates include wharfage. Arrangements to be made by officers ordering, for wharfage to be saved, and deducted from Contractor's invoice when time for delivery can be allowed.

Name of Manufacturer—

Items Nos. 1979, 1980, 1981, 1983, 1985-1989, 1991 to 1993, 1995, 1998, and 2000—H. V. McKay, Massey-Harris Pty. Ltd., Sunshine.

Items Nos. 2004 to 2011—Bright Steels Pty. Ltd., Sydney.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
Bars, Bright, Round, Steel (as specified)—						
1977	¾" diameter, by lengths ordered .. .. .	..	..	Nil	..	Nil
1978	1" .. .. .	..	..	Nil	..	..
1979	1 1/8"	Vict.	..	2 cwt.	ton 32 5 0	} Dane Taylor & Co. Pty. Ltd.
1980	1 1/4" .. .. .	..	..	3 "	do. 28 10 0	
1981	1 1/2" .. .. .	..	..	2 "	do. 26 10 0	} Nil
1982	1 3/4" .. .. .	..	..	Nil	..	
1983	2"	Vict.	..	2 "	ton 24 15 0	Dane Taylor & Co. Pty. Ltd.
1984	2 1/8" .. .. .	..	..	Nil	..	Nil
1985	2 1/4"	Vict.	..	30 "	ton 23 8 9	} ..
1986	2 1/2" .. .. .	..	..	75 "	do. 20 11 3	
1987	2 3/4" .. .. .	..	..	30 "	do. 20 11 3	} Dane Taylor & Co. Pty. Ltd.
1988	3" .. .. .	..	..	93 "	do. 20 10 0	
1989	3 1/8" .. .. .	..	..	45 "	do. 20 12 6	} Nil
1990	3 1/4" .. .. .	..	..	Nil	..	
1991	3 1/2"	Vict.	..	48 "	ton 20 12 6	} Dane Taylor & Co. Pty. Ltd.
1992	3 3/4" .. .. .	..	..	87 "	do. 20 11 3	
1993	4" .. .. .	..	..	110 "	do. 20 10 0	} Nil
1994	4 1/8" .. .. .	..	..	Nil	..	
1995	4 1/4"	Vict.	..	30 "	ton 20 12 6	Dane Taylor & Co. Pty. Ltd.
1996	4 1/2" .. .. .	..	..	Nil	..	Nil
1997	4 3/4" .. .. .	..	..	Nil	..	..
1998	5"	Vict.	..	60 "	ton 20 12 6	Dane Taylor & Co. Pty. Ltd.
1999	5 1/8" .. .. .	..	..	Nil	..	} Nil
2000	5 1/4" .. .. .	..	..	7 cwt.	..	
2001	5 1/2" .. .. .	..	..	Nil	..	
2002	5 3/4" .. .. .	..	..	Nil	..	
2003	6" .. .. .	..	..	Nil	..	..

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
STEEL—continued.								
Bars, Bright, Hexagon, Steel, to lengths, ordered and as specified—								
2004	0·710" width across flat, for $\frac{3}{8}$ " nuts	N.S.W.	1 cwt.	cwt.	1	6	5	Dane Taylor & Co. Pty. Ltd.
2005	0·920" width across flat, for $\frac{1}{2}$ " nuts	"	97 "	do.	1	4	0	
2006	1·100" width across flat, for $\frac{3}{8}$ " nuts	"	30 "	do.	1	4	0	
2007	1·300" width across flat, for $\frac{3}{8}$ " nuts	"	30 "	do.	1	4	3	
2008	1·480" width across flat, for $\frac{7}{8}$ " nuts	"	90 "	do.	1	4	0	
2009	1·670" width across flat, for 1" nuts	"	30 "	do.	1	4	3	
2010	1·860" width across flat, for $1\frac{1}{4}$ " nuts	"	Nil	"				Nil
2011	2·050" width across flat, for $1\frac{1}{4}$ " nuts	N.S.W.	40 cwt.	cwt.	1	4	0	Dane Taylor & Co. Pty. Ltd.
2012 to 2014	} Nil							

TAPS, DIES, AND CHASERS.

SPECIFICATION FOR TAPS (Items Nos. 2015 to 2095).

Particulars.—The Taps shall be of the very best quality, material, and workmanship, and shall be free from all injurious defects.

The Taps set opposite Items 2015 to 2050 shall be Standard Whitworth Hand Taps.

The Taps set opposite Items 2051 to 2053B shall be Standard Gas Hand Taps and shall be supplied in sets, each set comprising one Taper and one Plug Tap.

The Taps set opposite Items 2054 to 2076 shall be suitable for use with a National Semi-automatic Nut Tapping Machine, and shall be in accordance with the particulars shown on V.R. Drawing No. 8809.

The Taps set opposite Items 2077 to 2092 shall be Standard Whitworth Taps, right or left handed as ordered, suitable for use with Horizontal Tapping Machines.

The Taps set opposite Items 2093 to 2095 shall be similar to the "B.A." long pattern.

All taps shall be right hand, unless stated otherwise.

Limits of Tolerance.—The Taps shall be true to the specified dimensions within the following limits of tolerance:—

Items 2015 to 2053B—Minus, Nil. Plus, 0·003 inch of the diameter.

Items 2054 to 2076—Not less than 0·002 inch over nor more than 0·006 inch over the specified diameter.

Items 2077 to 2095—Minus, Nil. Plus, 0·003 inch of the diameter.

Pitch—Items 2015 to 2095. No Tap shall be more than 0·0005 inch out of pitch in any inch of length.

Inspections, Tests, and Rejections.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises. Five per cent. of each delivery shall be selected for inspection and tests, and shall be held as representing the lot from which they are selected. In the event of any of the taps selected failing to comply, in any particular with this Specification the lot from which they were selected will be liable to rejection.

SPECIFICATION FOR DIES AND CHASERS.

Particulars.—All material and workmanship of the Dies and Chasers shall be of the very best quality for the purpose, and they shall be free from all injurious defects.

The Hexagon Die Nuts set opposite Items 2097 to 2102 shall be Whitworth Standard, made from best cast steel hardened and tempered ready for use.

The Dies set opposite Items 2135 to 2142 shall be made from high-speed steel, and shall be suitable for efficient use in "Landis" Rotary Dieheads.

The Dies under Items 2143 to 2149 shall be made from high-speed steel, and shall be suitable for efficient use in "Herbert's" patent Self-opening Dieheads.

The Machine Chasers set opposite Items 2151 to 2165 shall be made from Carbon Steel, and shall be in accordance with the particulars shown in V.R. Drawing, No. 309N.

Limits of Tolerance.—The Hexagon Nut Dies shall not be over nor more than 0·0015 inch of the specified diameter. No Die or Chaser shall be more than 0·0005 inch out of pitch in any inch of length.

Inspection and Tests.—All inspections and tests shall be conducted by and at the cost of the Corporation at its premises.

Rejection.—Should any Die or Chaser fail to comply in any particular with this Specification, it shall be liable to rejection.

Name of manufacturers—Items 2015-2050, 2054-2092, 2103-2111, 2121-2129, and 2158—Green Bros. & Millor Pty. Ltd.

Name of manufacturer—Items 2093-2096, 2099, 2140-2144, 2148-2150, 2166-2170—Patience & Nicholson.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.	
					£	s.	d.		
TAPS, DIES, AND CHASERS—continued.									
2015	Taps, Whitworth Thread— 3/8" Taper	Vict.	22	each	0	0	6	Green Bros. & Miller Pty. Ltd.	
2016	3/16" "	(partly)	63	do.	0	0	6		
2017	7/32" "	"	4	do.	0	0	6		
2018	1/4" "	"	120	do.	0	0	6		
2019	5/16" "	"	36	do.	0	0	8 1/2		
2020	3/8" "	"	27	do.	0	0	10		
2021	1/2" "	"	36	do.	0	1	4		
2022	3/4" "	"	9	do.	0	2	0		
2023	7/8" "	"	3	do.	0	2	8		
2024	1" "	"	1	do.	0	3	2		
2026	1 1/4" "	"	1	do.	0	3	7		
2027	1 1/2" Intermediate	"	1	do.	0	6	9		
2028	3/8" "	"	39	do.	0	0	6		
2029	7/32" "	"	45	do.	0	0	6		
2030	1/4" "	"	1	do.	0	0	6		
2031	5/16" "	"	135	do.	0	0	6		
2032	3/8" "	"	36	do.	0	0	8 1/2		
2033	1/2" "	"	19	do.	0	0	10		
2034	3/4" "	"	36	do.	0	1	4		
2035	7/8" "	"	18	do.	0	2	0		
2036	1" "	"	1	do.	0	2	8		
2037	1 1/4" "	"	9	do.	0	3	2		
2038	1 1/2" "	"	10	do.	0	3	7		
2039	3/8" Plug	"	1	do.	0	6	9		
2040	3/16" "	"	27	do.	0	0	6		
2041	7/32" "	"	63	do.	0	0	6		
2042	1/4" "	"	4	do.	0	0	6		
2043	5/16" "	"	135	do.	0	0	6		
2044	3/8" "	"	54	do.	0	0	8 1/2		
2045	1/2" "	"	36	do.	0	0	10		
2046	3/4" "	"	36	do.	0	1	4		
2047	7/8" "	"	9	do.	0	2	0		
2048	1" "	"	1	do.	0	2	8		
2049	1 1/4" "	"	9	do.	0	3	2		
2050	1 1/2" "	"	1	do.	0	3	7		
2051	Taps, Hand-working— 1/2" Gas Thread, two to set	U.K.	12 sets	set	Nil	
2051A	3/4" "	"		do.	..	..	..
2051B	1" "	"		do.	..	..	..
2052	1 1/4" "	"		do.	..	..	..
2052A	1 1/2" "	"		do.	..	..	..
2052B	1 3/4" "	"		do.	..	..	..
2053	2" "	"		do.	..	..	..
2053A	2 1/4" "	"		do.	..	..	..
2053B	2 1/2" "	"	do.	..	..	..
Taps, for "National" Nut-tapping Machines, to Drawing No. 8809, Whitworth Thread—									
2054	1/4" "	Vict.	50	each	0	2	6	Green Bros. & Miller Pty. Ltd.	
2055	5/16" "	(partly)		do.	0	2	6		
2056	3/8" "	"		do.	0	2	9		
2057	1/2" "	"		do.	0	5	0		
2058	3/4" "	"		144	do.	0	5		6
2059	7/8" "	"		do.	0	6	3		
2060	1" "	"		do.	0	8	6		
2061	1 1/4" "	"		50	do.	0	10		3
2062	1 1/2" "	"		do.	0	13	3		
2063	1 3/4" "	"		do.	0	16	6		
2064	2" "	"		3	do.	0	19		3
2065	1 1/2" Gas Thread	"		do.	1	1	6		
2066	1 3/4" "	"		do.	0	9	0		
2067	2" "	"		3	do.	0	10		9
2068	1" "	"	do.	0	16	3			

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
TAPS, DIES, AND CHASERS—continued.							
Taps for "National" Nut-tapping Machines, &c.—continued.							
2069	1", 11 threads per inch	Vict. (partly)	50	each	0 10 6		
2070	1 1/8", 11 " " " " " "	"		do.	0 13 3		
2071	1 3/8", 11 " " " " " "	"		do.	0 15 6		
2072	1 1/2", 11 " " " " " "	"		do.	0 16 6		
2073	1 3/4", 11 " " " " " "	"		do.	0 19 3		
2074	1 7/8", 11 " " " " " "	"		9	do.		1 1 6
2075	2", 16 " " " " " "	"		2	do.		0 7 9
2076	1", 16 " " " " " "	"	do.		0 12 3		
Taps, Horizontal, Tapping Machine, Right-hand—							
2077	1 1/8"	"	6	do.	0 10 6	Green Bros. & Miller Pty. Ltd.	
2078	1 1/4"	"		do.	0 14 6		
2079	1 1/2"	"		do.	0 19 3		
2080	1 3/4"	"		do.	1 9 6		
2081	2"	"		do.	1 18 0		
2082	2 1/4"	"		do.	2 4 0		
2083	2 3/8"	"		do.	2 13 0		
2084	2 1/2"	"	do.	3 2 0			
Taps, Horizontal, Tapping Machine, Left-hand—							
2085	1 1/8"	"	6	do.	0 12 0		
2086	1 1/4"	"		do.	0 16 6		
2087	1 1/2"	"		do.	1 7 6		
2088	1 3/4"	"		do.	1 15 6		
2089	2"	"		do.	2 4 0		
2090	2 1/4"	"		do.	2 14 6		
2091	2 3/8"	"		do.	3 2 6		
2092	2 1/2"	"	do.	3 10 0			
2093	Taps, 2 B.A.	"	9	set of 3	0 2 3	McPherson's Pty. Ltd.	
2094	Taps, 4 B.A.	"	9	do.	0 2 3		
2095	Taps, 8 B.A.	"	1	do.	0 2 6		
2096	Dies, 6 B.A.	"	1	do.	0 2 3		
Dies, Nut, Hexagon, Whitworth Thread—							
2097	3/8"	"	Nil	each	..	} Nil	
2098	1/2"	"	Nil	do.	..		
2099	5/8"	Vict.	3	do.	0 4 3	} McPherson's Pty. Ltd.	
2100	3/4"	"	Nil	do.	..		
2101	7/8"	"	Nil	do.	..	} Nil	
2102	1"	"	Nil	do.	..		
Dies, Adjustable, 2 3/8" diameter, Whitworth Thread—							
2103	3/16"	Vict. (partly)	1	do.	0 7 9	} Green Bros. & Miller Pty. Ltd.	
2104	1/4"	"	1	do.	0 7 9		
2105	5/16"	"	4	do.	0 7 9		
2106	3/8"	"	4	do.	0 7 9		
2107	7/8"	"	4	do.	0 8 6		
2108	1 1/8"	"	1	do.	0 9 6		
2109	1 1/4"	"	1	do.	0 10 0		
2110	1 1/2"	"	1	do.	0 12 0		
2111	1"	"	1	do.	0 12 9		
Dies, Adjustable, 2 3/4" diameter, Whitworth Thread—							
2112	1/4"	"	} Nil	do.	..	} Nil	
2113	5/16"	"		do.	..		
2114	3/8"	"		do.	..		
2115	1/2"	"		do.	..		
2116	5/8"	"		do.	..		
2117	3/4"	"		do.	..		
2118	7/8"	"		do.	..		
2119	1"	"	do.	..			
2120	1 1/4"	"	do.	..			

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
TAPS, DIES, AND CHASERS—continued.						
2121	Dies, Hand, Lightning, Whitworth Thread— $\frac{3}{16}$ " x $1\frac{1}{2}$ " diameter	Vict. (partly)		each	0 5 6	Green Bros. & Miller Pty. Ltd.
2122	$\frac{1}{4}$ " x $1\frac{1}{2}$ "	"		do.	0 5 6	
2123	$\frac{5}{16}$ " x $1\frac{1}{2}$ "	"		do.	0 5 6	
2124	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	"	2	do.	0 5 6	
2125	$\frac{7}{16}$ " x $1\frac{1}{2}$ "	"		do.	0 6 6	
2126	$\frac{1}{2}$ " x $1\frac{1}{2}$ "	"		do.	0 6 6	
2127	$\frac{3}{4}$ " x $2\frac{3}{16}$ "	"		do.	0 10 0	
2128	$\frac{7}{8}$ " x $2\frac{3}{16}$ "	"		do.	0 12 0	
2129	1" x $2\frac{3}{16}$ "	"		do.	0 12 9	
Dies, Hand, Lightning, Gas Thread—						
2130	$\frac{1}{4}$ " x $1\frac{3}{8}$ " diameter					Nil
2131	$\frac{3}{8}$ " x $1\frac{3}{8}$ "					
2132	$\frac{1}{2}$ " x $2\frac{3}{16}$ "		Nil	do.		
2133	$\frac{3}{4}$ " x $2\frac{3}{16}$ "					
2134	1" x $2\frac{3}{16}$ "					
Dies, "Landis," Style "F," Whitworth Thread, in sets of four—						
2135	$\frac{1}{2}$ " to $\frac{3}{4}$ ", as ordered		Nil	set		Nil
2136	$\frac{3}{4}$ " to $1\frac{1}{2}$ ", as ordered		Nil	do.		
Dies, "Landis," Style "F," for 3" Diehead Whitworth Thread, in sets of four—						
2137	$1\frac{1}{2}$ "		Nil	do.		McPherson's Pty. Ltd.
2138	$2\frac{1}{4}$ "		Nil	do.		
2139	Dies, "Landis," Style "F," for $\frac{1}{2}$ " Diehead Whitworth Thread, in sets of four—		Nil	do.		
2140	Dies, "Landis," type, Pipe, 14 thread, Whitworth, for $1\frac{1}{2}$ " Diehead, in sets of four	Vict. (partly)		do.	2 7 5	McPherson's Pty. Ltd.
2141	Dies, "Landis," type, Pipe, 11 threads, Whitworth for 1" to 2" Pipes, in sets of four	"	2 sets	do.	2 7 5	
2142	Dies, "Landis," type, Pipe, 11 threads, Whitworth for $2\frac{1}{4}$ " to 3" Pipes, in sets of four	"		do.	3 17 6	McPherson's Pty. Ltd.
Dies, to suit Herbert's Die Heads—in sets of four						
2143	1", style "C," sizes $\frac{3}{8}$ " to 1", for 1" Die Head, as ordered, Whitworth Thread	"	4 "	set	1 5 0	McPherson's Pty. Ltd.
2144	$1\frac{1}{4}$ ", style "C," sizes $\frac{7}{16}$ " to $1\frac{1}{4}$ ", as ordered, Whitworth Thread	"	9 "	do.	1 10 0	
2145	2", style "C," sizes $\frac{3}{4}$ " to 2", as ordered, Whitworth Thread		Nil	do.		Nil
2146	1", style "C," sizes $\frac{3}{4}$ ", $\frac{7}{8}$ ", 1", and $1\frac{1}{4}$ ", as ordered, 11 threads per inch		Nil	do.		
2147	$1\frac{1}{4}$ ", style "C," sizes 1", $1\frac{1}{2}$ " and $1\frac{3}{4}$ ", as ordered, 11 threads per inch		Nil	do.		
2148	$1\frac{1}{2}$ ", style "C," sizes $1\frac{1}{4}$ ", $1\frac{1}{2}$ ", $1\frac{3}{4}$ ", and $1\frac{1}{2}$ ", as ordered, 11 threads per inch	Vict. (partly)	4 sets	set	2 3 0	McPherson's Pty. Ltd.
2149	2", style "C," sizes $1\frac{1}{4}$ ", $1\frac{1}{2}$ ", $1\frac{3}{4}$ ", $1\frac{1}{2}$ ", and $1\frac{3}{4}$ ", as ordered, 11 threads per inch	"	3 "	do.	2 12 6	
2150	Dies, tangential to V.R. Drawing No. 37N for "Kendall & Gent" Machine (Screw Couplings) in sets of four	"	8 "	do.	3 17 6	
Chasers, Machine, Inside, to Drawing No. 309N—						
2151	5 to 9 threads per inch, as ordered					Nil
2152	10 to 14					
2153	16 to 18					
2154	19 to 26					
2155	28 to 30					
2156	Nil.					
Chasers, Machine, Outside, to Drawing No. 309N—						
2157	5 to 9 threads per inch, as ordered		Nil	each		Green Bros. & Miller Pty. Ltd.
2158	10 to 14	Vict. (partly)	9	do.	0 4 0	
2159	16 to 18		Nil	do.		Nil
2160	19 to 26		Nil	do.		
2161	28 to 30		Nil	do.		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
TAPS, DIES, AND CHASERS—continued.								
2162	Chasers, Machine, Outside, 4" long— 11 threads per inch .. .. .	..	} Nil	..	..		} Nil
2163	12 " " .. .. .	..					
2164	14 " " .. .. .	..					
2165	16 " " .. .. .	..					
2166	Dies, Hand, Brass, 26 threads per inch (Whitworth)— $\frac{1}{4}$ " x $1\frac{1}{16}$ " outside diameter	Vict. (partly)	4	each	0	4	5 $\frac{1}{2}$	} McPherson's Pty. Ltd.
2167	$\frac{5}{16}$ " x $1\frac{5}{16}$ "	"	4	do.	0	4	5 $\frac{1}{2}$	
2168	$\frac{3}{8}$ " x $1\frac{5}{16}$ "	"	4	do.	0	4	5 $\frac{1}{2}$	
2169	$\frac{7}{16}$ " x $1\frac{1}{16}$ "	"	3	do.	0	4	5 $\frac{1}{2}$	
2170	$\frac{1}{2}$ " x $1\frac{1}{16}$ "	"	3	do.	0	4	5 $\frac{1}{2}$	

ELECTRODES AND WELDING WIRE,

The Electrodes and Welding Wire shall be capable of depositing the material specified in connexion with welding. The material shall be made by an approved process, and shall be of uniform homogeneous structure, free from segregations, oxides, pipes, seams, &c., and shall comply with such tests as the Department may deem necessary to determine suitability.

The Electrodes shall be 18 inches long. The covering shall not easily chip or break off, and shall not be affected by atmospheric conditions.

The Welding Wire shall be free from rust, oil, and grease.

The tenderer shall submit with his tender, detailed specifications (which shall include the chemical analysis) of the electrodes and welding wire he tenders to supply; also particulars of the method of application recommended for the most efficient use of Items Nos. 2189, 2190, 2193, and 2193A.

Iron and steel welding wires shall be dipped or otherwise coloured as may be decided by the Corporation for identification purposes.

The welding qualities and the absence of Zinc fumes shall be an important factor in deciding the acceptance of any tender for Brass Welding Wire. The sample submitted for this item shall not be less than 4 feet long.

As regards Items Nos. 2191 and 2191A, in the event of there being any alteration in the Manufacturers' current price of Wire falling or rising during the currency of the contract, such fall or rise, as the case may be, shall be applied to the undelivered quantity as at date of such alteration in price.

As regards Items Nos. 2186 to 2188B, three tenders have been accepted. As far as possible, the cheapest Electrode should be issued for general use, failing which the "E.M.F. High Carbon" may be used. Special work in Way and Works Branch may warrant the use of the "Quasi Arc" Electrode. Where it is not proposed to order the cheapest Electrode, the matter should be submitted for decision of Comptroller of Stores.

†2171	Electrodes, Mild Steel, Standard, "E.M.F."— No. 4 S.W.G.	Vict. (partly)	450 feet	100 ft.	0	14	9	} Edmunds Bros. & Co.
†2172	No. 6 S.W.G.	"	28,500	do.	0	12	0	
†2173	No. 8 S.W.G.	"	193,000	"	0	9	6	
†2174	No. 10 S.W.G.	"	164,000	"	0	7	6	
†2175	No. 12 S.W.G.	"	3,000	do.	0	6	6	
†2176	No. 14 S.W.G.	"	750	do.	0	6	6	
†2177	Electrodes, Mild Steel, Special— No. 8 S.W.G.	14,500	do.	..			} Nil
†2178	No. 10 S.W.G. .. .. .	..	18,200	do.	..		
†2179	Electrodes, Mild Steel, suitable for overhead work, "E.M.F., A Grade"— No. 8 S.W.G.	Vict. (partly)	6,000	do.	0	10	0	} Edmunds Bros. & Co.
†2180	No. 10 S.W.G.	"	6,750	do.	0	8	0	
†2181	Electrodes, Mild Steel, suitable for work required to be forged hot, "E.M.F., New Era"— No. 8 S.W.G.	"	48,000	do.	0	11	8	
†2182	No. 10 S.W.G.	"	2,400	do.	0	9	6	
†2183	Electrodes, Mild Steel, Light Coated, suitable for use on 25-cycle A.C. supply— "E.M.F." Arc Rods, in 18" lengths and wrapped in 150' packages— No. 6 S.W.G.	"	3,000	do.	0	6	6	} Edmunds Bros. & Co.
†2184	No. 8 S.W.G.	"	10,000	do.	0	5	0	
†2185	No. 10 S.W.G.	"	5,000	do.	0	4	0	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ELECTRODES AND WELDING WIRE—continued.						
†2186	Electrodes, Steel, to deposit 0.5 per cent. carbon steel—					
†2186A	No. 6 S.W.G. "E.M.F." High Carbon	Vict. (partly)	100 ft.	do.	0 16 6	Edmunds Bros. & Co.
†2186B	" " "E.M.F." Rail Rods, Medium Carbon	"	11,500 feet	do.	0 16 0	
†2187	No. 8 S.W.G. "E.M.F." High Carbon	"		do.	1 1 3	R. Bryce & Co. Pty. Ltd.
†2187A	" " "E.M.F." Rail Rods, Medium Carbon	"	15,000 "	do.	0 13 6	Edmunds Bros. & Co.
†2187B	" " "Quasi Arc "	"		do.	0 13 0	
†2188	No. 10 S.W.G. "E.M.F." High Carbon	"		do.	0 17 3	R. Bryce & Co. Pty. Ltd.
†2188A	" " "E.M.F. Rail Rods, Medium Carbon	"	3,600 "	do.	0 11 0	Edmunds Bros. & Co.
†2188B	" " "Quasi Arc "	"		do.	0 10 6	
Electrodes, Cast Iron, suitable for work on cast iron that is heated—"E.M.F."						
†2189	No. 8 S.W.G.	"	3,000 "	do.	0 16 6	Edmunds Bros. & Co.
†2190	No. 10 S.W.G.	"	3,000 "	do.	0 13 3	
Wire, Mild Steel, Electric Welding, in coils—						
†2191	$\frac{3}{16}$ " diameter, "Rylands "	N.S.W.	7 cwt.	ton.	25 0 0	Briscoe & Co. Ltd.
†2191A	$\frac{3}{8}$ " diameter, "Rylands "	"	12 "	do.	26 2 6	
Wire, Steel, Electric Welding, to give a carbon steel deposit of approx. 0.5 per cent. carbon—						
†2192	$\frac{3}{16}$ " diameter in lengths of approx. 18"	"	3 "	do.	..	Nil
†2192A	$\frac{3}{8}$ " diameter in lengths of approx. 18"	"	1 "	do.	..	
Wire, High Tensile Steel, Oxy-Acetylene Welding—						
†2193	$\frac{1}{8}$ " diameter, "Rylands "	N.S.W.	5 cwt.	cwt.	1 18 4	Aust. Oxygen & Industrial Gases Pty. Ltd.
†2193A	$\frac{1}{4}$ " diameter	"	5 "	do.	..	Nil
Wire, Iron, OxyAcetylene Welding, in coils—						
†2194	10 S.W.G., "Ryland's Rylax "	N.S.W.	9 "	do.	1 6 6	Austn. Oxygen & Industrial Gases Pty. Ltd.
†2194A	$\frac{1}{16}$ " diameter, "Ryland's Rylax "	"	1 "	do.	1 11 7	
†2194B	$\frac{3}{16}$ " diameter, "Ryland's Rylax "	"	33 "	do.	1 5 4	
†2194C	$\frac{1}{4}$ " diameter, "Rylands Rylax "	"	24 "	do.	1 5 4	
Wire, Manganese Bronze, Oxy-Acetylene Welding—						
†2195	$\frac{1}{8}$ " diameter, "Austral Bronze Co."	"	1 "	do.	11 7 6	Austn. Oxygen & Industrial Gases Pty. Ltd.
†2195A	$\frac{1}{16}$ " diameter, "Austral Bronze Co."	"	6 "	do.	9 12 6	
†2195B	$\frac{1}{4}$ " diameter, "Austral Bronze Co."	"	6 "	do.	9 12 6	
†2196	Wire, Brass, Oxy-Acetylene Welding—					
	$\frac{1}{4}$ " diameter	"	50 "	do.	..	Nil

CORKS AND BOTTLING WAX.

*2197	Corks—					
	Axle-box, large quart and extra tapers	Spain	1,000 gross	gross	0 1 9	Harrison San Miguel Pty. Ltd.
*2198	" small	Vict. and Spain	18 "	"	0 1 2	Cork Manufacturing Co. Pty. Ltd.
*2199	Bungs, $1\frac{3}{4}$ "	"	3 "	"	0 6 6	
*2200	" $1\frac{1}{2}$ " Tap Ends	"	36 "	"	0 4 10	
*2201	Phial	"	4 "	"	0 1 0	
*2202	Roof Lamp, $1\frac{1}{8}$ " Tap Ends	"	Nil	"	..	
*2203 to 2209	Nil.					

WATER TROUGHS, ETC.

Item 2210.—The Cattle Trough must be 12 feet long, with a cross-section of 24 in. x 15 in. (internal), shall be of concrete, well reinforced, and with surfaces smoothly rendered, and provided with supports so that the top of the trough will stand 18 inches above the ground level. Provision shall be made at one end of the trough for a $\frac{1}{2}$ -in. connexion for a ball cock. A suitable steel hood and padlock shall be provided to protect the ball cock. No crating required.

WATER TROUGHS, ETC.—*continued.*

Item 2211.—The Pig Trough shall be 8 feet long, with a cross-section of 15 in. x 8 in. (internal), shall be of concrete, well reinforced, and with surfaces smoothly rendered, and provided with a suitable base so that the bottom of the trough will rest flat on the ground. Provision shall be made at one end of the trough for a $\frac{1}{2}$ -in. connexion for a ball cock. A suitable steel hood and padlock shall be provided to protect the ball cock. The rate tendered shall include crating suitable for transport by rail.

Item 2212.—The Wash Trough shall be in two divisions, shall be of reinforced cement 1 inch thick, shall be 4 ft. 3 in. long, 14 inches deep, 1 ft. 2 in. wide at bottom and 1 ft. 9 in. wide at top, and shall be fitted with brass plugs and washers (M.M.B.W.) complete to each division with wastes combined to form a single outlet. The rate tendered for this item shall include 3 in. x 1 in. hardwood crates, which shall remain the property of the Corporation.

Item 2213.—The Concrete Copper Stands shall be constructed to take a 14-gallon boiler, and shall be fitted with fire grate door and 9 feet of concrete flue piping. All crating necessary for the safe transport by rail shall be provided by and at the expense of the Contractor.

Item 2210 will be delivered into trucks at Springvale Railway Station.

Item 2211 will be delivered into trucks at Spencer-street Railway Station.

Name of manufacturer, Item 2211, "Bucklands Reinforced Concrete Works Ltd., Brunswick."

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
2210	Trough, reinforced concrete— 12' long, for Cattle (as specified) ..	Vict.	3	each	5	19	6	Rocla Ltd.
2211	8' long, for Pigs (as specified) ..	"	6	"	2	2	0	J. Danks and Son Pty. Ltd.
2212	Trough, Wash, reinforced cement (as specified)	..	Nil					
2213	Concrete Copper Stands (as specified) ..	..	Nil					

STEEL CASTINGS.

When specially ordered the Castings shall be run with heads or runners of such weight as may be ordered, and no extra charge will be allowed for same, and the Contractor will be required to remove the head or runner from the Casting where possible in the opinion of the Comptroller of Stores, and charge the Casting at the net weight only, trimmed and clean. In cases where it is necessary to cut off the head in a lathe or machine, such head will be cut off by the Corporation, and, excepting those for the State Coal Mine at Wonthaggi, will be returned to the railway station nearest to the Contractor's works, and delivered to the Contractor at the said railway station free of cost or carriage.

The Scrap for the manufacture of the Castings under this Contract shall be purchased by the Contractor from the Corporation, and except as hereinafter provided shall be paid for by the Contractor at the following rates delivered in trucks at Spotswood, and the rates set opposite to items numbered respectively 2214 to 2231 in this Schedule must include the cost of the said Scrap.

	£	s.	d.
Mild Steel, small and medium	1	5	0 per ton
Steel Tyres	1	10	0 ..
Rails and Fishplates	1	10	0 ..

To cover waste, the Contractor shall purchase as aforesaid 30 per centum of Scrap in excess of any quantity of Castings which may be ordered from time to time. Provided in the event of the Contractor requiring for the purposes of this contract any quantity of scrap exceeding the respective percentages as aforesaid, then in every such case he shall pay for such excess at an increase of 5 per cent. Payment at the rate or rates aforesaid shall be made by the Contractor to the Chief Accountant of the Victorian Railways (within 48 hours after demand) for any Scrap which may be supplied to the Contractor from time to time as hereinbefore provided, and failing payment as aforesaid, the Corporation shall be entitled to deduct any amount owing for the said Scrap from any money due or which may become due, to the Contractor under this Contract.

SPECIFICATION FOR STEEL CASTINGS.

Quality of Material and Chemical Tests.—(a) The Castings shall be manufactured from steel produced by an approved process and shall show on analysis not more than 0.07 per cent. of Sulphur or of Phosphorus.

(b) The Contractor shall supply an analysis of each cast with each delivery. A check analysis may be made by the Corporation from the broken tensile test specimen or from a casting representative of each cast. In the latter case the drillings shall be taken not less than one quarter of an inch beneath the surface of the casting.

Heat Treatment.—(a) All castings except where specified shall be so heat treated as to give the physical properties called for.

(b) For the purpose of determining the quality of annealing, at least two lugs shall be cast on all castings, except where their omission is specifically agreed to by the Corporation. The location and size of the annealing lugs shall be subject to approval by the Corporation unless indicated on drawings or patterns supplied by the Corporation. They shall be cast with and attached to each casting when presented for inspection, and shall be removed by or at the direction of the Receiving Officer. If in the opinion of the Receiving Officer the casting is not properly annealed, he may, at his option, require the casting to be reannealed.

(c) If, after annealing or reannealing, any casting is so much out of gauge as to require heating to bring it within gauge limits, it shall be reannealed before being accepted.

(d) Castings shall NOT be dipped in any preservative coating, or painted before being presented to the Receiving Officer for inspection or testing. In this specification the "normalising temperature" means a temperature exceeding the upper critical range of the steel, but not exceeding 920° C.

Moulding.—(a) The castings shall be accurately moulded in accordance with the patterns and/or working drawing supplied by the Corporation with the addition of such lettering as may be prescribed.

(b) When patterns and working drawings are supplied, the patterns shall be so made that sufficient margin is allowed to provide for all variation in shrinkage. The Contractor shall be responsible for calling attention, before work is commenced, to any discrepancy between the patterns and the working drawings supplied, or to insufficient allowance having been made in the patterns for shrinkage.

STEEL CASTINGS, ETC.—continued.

(c) Should any pattern or corebox supplied by the Corporation become so badly worn or damaged as to render it impracticable to mould castings from it to the degree of accuracy required, the Contractor shall be responsible for calling attention to the state of disrepair of the pattern or corebox. Failure to thus call attention shall render liable to rejection any castings which have been moulded from such pattern.

(d) The castings shown opposite items numbers 2215 to 2228A shall also conform to limit gauges supplied by the Corporation.

Any further particulars regarding the amount of gauging required for these steel castings may be obtained on application at the Rolling Stock Drawing Office, Room 135, Railway Offices, Spencer-street.

Patterns, Coreboxes and Gauges.—The Corporation will supply all patterns, coreboxes and gauges (when required) and deliver the same to the Contractor, free of cost, at the Victorian railway station nearest to his works. All patterns, &c., supplied by the Corporation shall be returned in good order and condition and shall be delivered together with the castings.

Note.—Whenever only one or two Castings are required, and they can in the opinion of the Comptroller of Stores be moulded from the broken originals, the Contractor shall be bound to mould from such broken originals, without requiring the Corporation to supply any pattern or corebox for same, and without being allowed any extra rate.

Branding.—The cast number shall be stamped upon each casting, close to the moulded number of pattern, together with the Contractor's name or trade mark, which shall be stamped or moulded on each casting. No moulded brand or mark shall be more than 2 inches high. All stampings shall be so stamped that they will be legible after the casting has been annealed.

Machining.—The Crossheads shown opposite items numbers 2230 to 2230r shall be finished machined as indicated on the drawings, except the bores of the pin and the rod, which shall be rough machined only. They shall be bored $\frac{1}{4}$ -in. less in diameter than the finished size.

Fettling.—Castings shall be properly fettled and all surfaces shall be clean and free from sand.

Repairs to Defective Castings.—Any defects or unsound metal which a casting may have, from whatever cause arising, shall be left bare, and no filling with the object of obliterating such defects will be permitted unless previously sanctioned by the Receiving Officer. Any casting upon which such work has been done without such sanction having been obtained will be rejected. When such repairs have been sanctioned, the casting shall be reannealed or renormalised, as provided in clause (7) of this specification, unless specific permission to the contrary is given by the Comptroller of Stores.

Selection of Test Pieces.—The Receiving Officer will examine all castings before delivery, and make a selection from the bulk of castings from which the specified tests are to be taken. He will select and stamp pieces for testing purposes, to be cut from the casting, or from lumps formed on each casting, of such size and in such position in the mould as will furnish test pieces which shall be truly representative of the remainder of the metal.

Number of Tests.—The Castings will be required to pass the tests specified according to Classification.

General Castings.—Tensile Tests (Grades A, B, C). One tensile test shall be taken from each cast.

General Castings.—Bend Tests (Grades B and C). One bend test shall be taken from each cast.

General Castings.—Impact Test. (Grades B and C). One standard "Izod" impact test shall be taken from each batch of castings heat treated together, or if there is more than one cast represented in such batch, then one standard "Izod" impact test shall be taken from each cast in the batch.

Frame Stays and Bogie Centres.—At least one tensile test shall be taken from each cast, and one bend test, and one standard "Izod" impact test shall be taken from each casting.

Tensile Tests.—(a) The Australian Standard Test Piece D, having a gauge length of 3 in. and a sectional area of $\frac{1}{4}$ sq. in., or failing a 3-in. test piece, a Standard Test Piece C, having a gauge length of 2 in. and a sectional area of $\frac{1}{4}$ sq. in., shall, without reheating or any other manipulation whatever, conform to the following physical tests:—

GRADES A, B, AND C.

Grade A Castings are those WITH wearing surfaces.

Grade B Castings are those WITHOUT wearing surfaces.

	Grade A.	Grade B.	Grade C.
Ultimate tensile breaking strength, tons per sq. inch minimum	35	27	32
Elongation per cent. minimum	10	24	22
Reduction in area per cent. minimum	—	35	30
Yield Point shall not be less than 50 per cent. of the ultimate strength.			

(b) The yield point shall for the purpose of this specification be the load per sq. in., at which a distinctly visible increase occurs in the distance between gauge points on the test piece, observed by using dividers; or at which, when the load is increased at a moderately fast rate, there is a distinct drop in the testing machine lever, or in a hydraulic machine, of the gauge finger.

Cold Bend Test.—Except in the case of Grade A. Castings, a test piece 9 inches long turned to 1 inch diameter, must withstand, without fracture, being bent cold through an angle of 90° round a bar $2\frac{1}{4}$ inches in diameter.

Impact Test.—A Standard "Izod" impact test piece 10 mm. square having a 45 degrees notch 2 mm. deep cut cold from B. or C. grade castings, shall absorb not less than 20 foot pounds of energy.

Additional Tests before Rejection.—In the event of the Castings selected for testing not satisfying the requirements of Clauses 16, 17, and 18, the Receiving Officer shall, as specified below, make further tests of Castings, provided by the Contractor at his own expense, before finally refusing or accepting the castings represented.

(a) **Tensile or Bend Test.**—Should the casting fail in the tensile bend or impact test, and the fractured test piece indicate that the result does not fairly represent the bulk of the castings, then in castings coming under—

General Castings (Grades A, B and C).—The tensile test shall be repeated from pieces cut from the same lump.

General Castings (Grades B and C).—The bend test shall be repeated from pieces cut from the same lump.

General Castings (Grades B and C).—The standard "Izod" impact test shall be repeated on pieces cut from the same batch or cast.

The Castings shall be accepted if the retest is satisfactory, and the whole upon close examination found to be free from defects.

Frame Stays and Bogie Centres.—Tensile test pieces shall be taken from two more castings from the same cast or two more bend tests shall be taken from test pieces cut from the same lump.

The Castings shall be accepted if two of the three test results are satisfactory, and the whole upon close examination found to be free from defects.

The standard "Izod" impact shall be repeated on pieces cut from the same casting, and if satisfactory the casting shall be accepted.

Inspection and Rejection.—(a) The Receiving Officer shall have free access to the works of the Contractor at all reasonable times during the course of manufacture of the Castings. He shall be at liberty to inspect the manufacture at any stage, and to reject any Casting or material that is unsound or does not otherwise conform to the terms of this Specification.

STEEL CASTINGS, ETC.—*continued.*

(b) All tests and inspection of the material shall be completed at the Contractor's works, or elsewhere as provided in Clause 21, and shall be final prior to shipment, and shall be so conducted as not to interfere unnecessarily with the operation of the works.

(c) Should any portion of the material show injurious defects in the course of fabrication, the Contractor shall be notified and, provided the material has been properly treated by the Corporation, it shall be rejected and the Contractor shall replace it.

(d) After all material has passed the prescribed tests and is ready for shipment, the Receiving Officer shall stamp the parts with the acceptance mark.

Testing Facilities.—The Contractor shall supply the material for testing free of charge and shall, at his own cost, furnish and prepare the necessary test pieces and supply labour and appliances except gauges for such testing and gauging (when required) as may be carried out on his premises in accordance with this Specification. Failing facilities at his own works for making the prescribed tests, the Contractor shall bear the cost of carrying out the tests elsewhere, as agreed upon between the Contractor and the Corporation, but within the State in which the works of the Contractor are situated, provided always that suitable facilities exist in that State.

Latent Defects.—In the event of any casting supplied under this Contract proving unserviceable during the first six months' use, due to any defect which could not reasonably have been discovered by visual or other examination of the casting, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective casting.

Provided satisfactory service is rendered and it is found convenient to do so, orders should be placed in the following proportions:—

Chas. Ruwolt Pty. Ltd.	40 per cent.
Steel Co. of Aust. Pty. Ltd.	30 per cent.
Thompson's Eng. & Pipe Co. Ltd.	20 per cent.
Davies, Baird & Robertson Pty. Ltd.	10 per cent.

The rates cover supply of general types of castings and if castings of a complicated nature be required, the Contractor shall have the right of appealing against payment at the Contract rate. The decision of the Comptroller of Stores shall be final.

If the cost of production be varied as the result of any alteration in any industrial award, the Contract rates shall be subject to amendment as may be determined by the Comptroller of Stores.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.	
					£	s.	d.		
	Castings, Steel (Grade "A," "B," or "C"), as ordered and as specified—								
2214	Weights under 2 lb.	Vict.	10 cwt.	cwt.	4	2	0	Chas. Ruwolt Pty. Ltd.	
2214A	Weights under 2 lb.	"		do.	4	2	0	Steel Co. of Aust. Pty. Ltd.	
2214B	Weights under 2 lb.	"		do.	4	2	0	Thompson's Eng. & Pipe Co. Ltd.	
2214C	Weights under 2 lb.	"		do.	4	2	0	Davies, Baird & Robertson Pty. Ltd.	
2214AA	Weights 2lb. and up to 14 lb.	"		ton	54	0	0	Chas. Ruwolt Pty. Ltd.	
2214AB	Weights 2 lb. and up to 14 lb.	"		do.	54	0	0	Steel Co. of Aust. Pty. Ltd.	
2214AC	Weights 2 lb. and up to 14 lb.	"		30 tons	do.	54	0	0	Thompson's Eng. & Pipe Co. Ltd.
2214AD	Weights 2 lb. and up to 14 lb.	"			do.	54	0	0	Davies, Baird & Robertson Pty. Ltd.
2214BA	Weights over 14 lb. and up to 1 cwt.	"		350 "	do.	40	0	0	Chas. Ruwolt Pty. Ltd.
2214BB	Weights over 14lb. and up to 1 cwt.	"			do.	40	0	0	Steel Co. of Aust. Pty. Ltd.
2214BC	Weights over 14 lb. and up to 1 cwt.	"	do.		40	0	0	Thompson's Eng. & Pipe Co. Ltd.	
2214BD	Weights over 14 lb. and up to 1 cwt.	"	do.		40	0	0	Davies, Baird & Robertson Pty. Ltd.	
2214OA	Weights over 1 cwt.	"	50 "		do.	40	0	0	Chas. Ruwolt Pty. Ltd.
2214CB	Weights over 1 cwt.	"			do.	40	0	0	Steel Co. of Aust. Pty. Ltd.
2214CC	Weights over 1 cwt.	"	do.		40	0	0	Thompson's Eng. & Pipe Co. Ltd.	
2214CD	Weights over 1 cwt.	"	do.		40	0	0	Davies, Baird & Robertson Pty. Ltd.	
	Castings, Steel (Grade "A"), moulded within the limits of gauges, and as specified—								
	(a) Weights over 14 lb. and up to 1 cwt.—								
2215	Follower Blocks to V.R. Drawings Nos. 7611·5 or 7611·6		See next page	ton	40	0	0	Chas Ruwolt Pty. Ltd.	
2215A	Follower Blocks to V.R. Drawings Nos. 7611·5 or 7611·6	"		do.	40	0	0	Steel Co. of Aust. Pty. Ltd.	
2215B	Follower Blocks to V.R. Drawings Nos. 7611·5 or 7611·6	"		do.	40	0	0	Thompson's Eng. & Pipe Co. Ltd.	
2215C	Follower Blocks to V.R. Drawings Nos. 7611·5 or 7611·6	"		do.	40	0	0	Davies, Baird & Robertson Pty. Ltd.	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
STEEL CASTINGS, ETC.— <i>continued.</i>								
	Castings, Steel (Grade "A," moulded within the limits of gauges, &c.— <i>continued.</i>)							
	(b) Weights over 1 cwt.—							
2215AA	Engine Striking Plates to V.R. Drawings Nos. S. & X. 63·5, 5191·2 or 5297·3	Vict.		ton	50	0	0	Chas. Ruwolt Pty. Ltd.
2215AB	Engine Striking Plates to V.R. Drawings Nos. S. & X. 63·5, 5191·2 or 5297·3	"		do.	50	0	0	Steel Co. of Aust. Pty. Ltd.
2215AC	Engine Striking Plates to V.R. Drawings Nos. S. & X. 63·5, 5191·2 or 5297·3	"		do.	50	0	0	Thompson's Eng. & Pipe Co. Ltd.
2215AD	Engine Striking Plates to V.R. Drawings Nos. S. & X. 63·5, 5191·2 or 5297·3	"		do.	50	0	0	Davies, Baird & Robertson Pty. Ltd.
	Castings, Steel (Grade "A" or "B"), as ordered, moulded within the limits of gauges, as specified—							
2216	Axle Boxes, Car, Van, Wagon, and Engine Tender	"		do.	58	0	0	Chas. Ruwolt Pty. Ltd.
2216A	Axle Boxes, Car, Van, Wagon, and Engine Tender	"		do.	58	0	0	Steel Co. of Aust. Pty. Ltd.
2216B	Axle Boxes, Car, Van, Wagon, and Engine Tender	"		do.	58	0	0	Thompson's Eng. & Pipe Co. Ltd.
2216C	Axle Boxes, Car, Van, Wagon, and Engine Tender	"		do.	58	0	0	Davies, Baird & Robertson Pty. Ltd.
2216AA	Axle Boxes, Engine, Engine Trailing Truck, or Engine Bogie	"		do.	46	0	0	Chas. Ruwolt Pty. Ltd.
2216AB	Axle Boxes, Engine, Engine Trailing Truck, or Engine Bogie	"		do.	46	0	0	Steel Co. of Aust. Pty. Ltd.
2216AC	Axle Boxes, Engine, Engine Trailing Truck, or Engine Bogie	"		do.	46	0	0	Thompson's Eng. & Pipe Co. Ltd.
2216AD	Axle Boxes, Engine, Engine Trailing Truck, or Engine Bogie	"		do.	46	0	0	Davies, Baird & Robertson Pty. Ltd.
	Castings, Steel (Grade "B"), moulded within the limits of gauges, as specified—							
	(a) Weights over 14 lb. and up to 1 cwt.—							
2217	Draft Cheeks to V.R. Drawings Nos. 7642, 7611·7, 6430, P.E.T. 3·31 or 3·32	"	See next page	do.	38	0	0	Chas. Ruwolt Pty. Ltd.
2217A	Draft Cheeks to V.R. Drawings Nos. 7642, 7611·7, 6430, P.E.T. 3·31 or 3·32	"		do.	38	0	0	Steel Co. of Aust. Pty. Ltd.
2217B	Draft Cheeks to V.R. Drawings Nos. 7642, 7611·7, 6430, P.E.T. 3·31 or 3·32	"		do.	38	0	0	Thompson's Eng. & Pipe Co. Ltd.
2217C	Draft Cheeks to V.R. Drawings Nos. 7642, 7611·7, 6430, P.E.T. 3·31 or 3·32	"		do.	38	0	0	Davies, Baird & Robertson Pty. Ltd.
2218	Carry Irons to V.R. Drawings Nos. 7604·13, 7611·2, and 7636·15	"		do.	40	0	0	Chas. Ruwolt Pty. Ltd.
2218A	Carry Irons to V.R. Drawings Nos. 7604·13, 7611·2, and 7636·15	"		do.	40	0	0	Steel Co. of Aust. Pty. Ltd.
2218B	Carry Irons to V.R. Drawings Nos. 7604·13, 7611·2, and 7636·15	"		do.	40	0	0	Thompson's Eng. & Pipe Co. Ltd.
2218C	Carry Irons to V.R. Drawings Nos. 7604·13, 7611·2, and 7636·15	"		do.	40	0	0	Davies, Baird & Robertson Pty. Ltd.
2219	Head Stock Stiffeners to V.R. Drawings, Nos. 7604·8, 7636·16 or I.Z. 3·49	"		do.	40	0	0	Chas. Ruwolt Pty. Ltd.
2219A	Head Stock Stiffeners to V.R. Drawings, Nos. 7604·8, 7636·16 or I.Z. 3·49	"		do.	40	0	0	Steel Co. of Aust. Pty. Ltd.
2219B	Head Stock Stiffeners to V.R. Drawings, Nos. 7604·8, 7636·16 or I.Z. 3·49	"		do.	40	0	0	Thompson's Eng. & Pipe Co. Ltd.
2219C	Head Stock Stiffeners to V.R. Drawings, Nos. 7604·8, 7636·16 or I.Z. 3·49	"		do.	40	0	0	Davies, Baird & Robertson Pty. Ltd.
	(b) Weights over 1 cwt.—							
2220	Draft Gear Housing to V.R. Drawings, Nos. 5191·3 and 5297·1	"		do.	56	0	0	Chas. Ruwolt Pty. Ltd.
2220A	Draft Gear Housing to V.R. Drawings, Nos. 5191·3 and 5297·1	"		do.	56	0	0	Steel Co. of Aust. Pty. Ltd.
2220B	Draft Gear Housing to V.R. Drawings, Nos. 5191·3 and 5297·1	"		do.	56	0	0	Thompson's Eng. & Pipe Co. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.	
					£	s.	d.		
STEEL CASTINGS, ETC.— <i>continued.</i>									
	Castings, Steel (Grade "B," moulded within the limits of gauges, &c.— <i>continued.</i>)								
	(b) Weights over 1 cwt.— <i>continued.</i>								
2220C	Draft Gear Housing to V.R. Drawings, Nos. 5191·3 and 5297·1	Vict.		ton	56	0	0	Davies, Baird & Robertson Pty. Ltd.	
2220AA	Draft Cheeks to V.R. Drawings, Nos. S. & X. 63·4	"		do.	38	0	0	Chas. Ruwolt Pty. Ltd.	
2220AB	Draft Cheeks, to V.R. Drawings Nos. S. & X. 63·4	"		do.	38	0	0	Steel Co. of Aust. Pty. Ltd.	
2220AC	Draft Cheeks to V.R. Drawings, Nos. S. & X. 63·4	"		do.	38	0	0	Thompson's Eng. & Pipe Co. Ltd.	
2220AD	Draft Cheeks to V.R. Drawings, Nos. S. & X. 63·4	"		do.	38	0	0	Davies, Baird & Robertson Pty. Ltd.	
	Castings, Steel (Grade "C"), moulded within the limits of gauges, as specified—								
	(a) Weights over 14 lb. and up to 1 cwt.—								
2221	Back Stops to V.R. Drawings, Nos. 7604·7, 7611·8, 7636·13, 7643, Q.N. 3·21	"	160 tons	do.	38	15	0	Chas. Ruwolt Pty. Ltd.	
2221A	Back Stops to V.R. Drawings, Nos. 7604·7, 7611·8, 7636·13, 7643, Q.N. 3·21	"		do.	38	15	0	Steel Co. of Aust. Pty. Ltd.	
2221B	Back Stops to V.R. Drawings, Nos. 7604·7, 7611·8, 7636·13, 7643, Q.N. 3·21	"		do.	38	15	0	Thompson's Eng. & Pipe Co. Ltd.	
2221C	Back Stops to V.R. Drawings, Nos. 7604·7, 7611·8, 7636·13, 7643, Q.N. 3·21	"		do.	38	15	0	Davies, Baird & Robertson Pty. Ltd.	
2222	Front Stops to V.R. Drawings, Nos. 7604·7, 7725·3, 7636·13	"		do.	38	15	0	Chas. Ruwolt Pty. Ltd.	
2222A	Front Stops to V.R. Drawings, Nos. 7604·7, 7725·3, 7636·13	"		do.	38	15	0	Steel Co. of Aust. Pty. Ltd.	
2222B	Front Stops to V.R. Drawings, Nos. 7604·7, 7725·3, 7636·13	"		do.	38	15	0	Thompson's Eng. & Pipe Co. Ltd.	
2222C	Front Stops to V.R. Drawings, Nos. 7604·7, 7725·3, 7636·13	"		do.	38	15	0	Davies, Baird & Robertson Pty. Ltd.	
2223	Centre Plates to V.R. Drawings, Nos. V. 3·50 and V. 31·21	"		do.	38	15	0	Chas. Ruwolt Pty. Ltd.	
2223A	Centre Plates to V.R. Drawings, Nos. V. 3·50 and V. 31·21	"		do.	38	15	0	Steel Co. of Aust. Pty. Ltd.	
2223B	Centre Plates to V.R. Drawings, Nos. V. 3·50 and V. 31·21	"		do.	38	15	0	Thompson's Eng. & Pipe Co. Ltd.	
2223C	Centre Plates to V.R. Drawings, Nos. V. 3·50 and V. 31·21	"		do.	38	15	0	Davies, Baird & Robertson Pty. Ltd.	
2224	Yokes to V.R. Drawing No. 6430 or P.E.T. 45·1	"		do.	38	15	0	Chas. Ruwolt Pty. Ltd.	
2224A	Yokes to V.R. Drawing No. 6430 or P.E.T. 45·1	"		ton	38	15	0	Steel Co. of Aust. Pty. Ltd.	
2224B	Yokes to V.R. Drawing No. 6430 or P.E.T. 45·1	"		do.	38	15	0	Thompson's Eng. & Pipe Co. Ltd.	
2224C	Yokes to V.R. Drawing No. 6430 or P.E.T. 45·1	"		do.	38	15	0	Davies, Baird & Robertson Pty. Ltd.	
2225	Striking Plates to V.R. Drawing Nos. 7604·6 or I.Z. 45·6	"		do.	50	15	0	Chas. Ruwolt Pty. Ltd.	
2225A	Striking Plates to V.R. Drawings, Nos. 7604·6 or I.Z. 45·6	"		do.	50	15	0	Steel Co. of Aust. Pty. Ltd.	
2225B	Striking Plates to V.R. Drawings, Nos. 7604·6 or I.Z. 45·6	"		do.	50	15	0	Thompson's Eng. & Pipe Co. Ltd.	
2225C	Striking Plates to V.R. Drawings, Nos. 7604·6 or I.Z. 45·6	"		do.	50	15	0	Davies, Baird & Robertson Pty. Ltd.	
	(b) Weights over 1 cwt.—								
2226	Yokes to V.R. Drawings, Nos. 7604·9 I.Z. 45·11 or 5297·2	"		do.	38	15	0	Chas. Ruwolt Pty. Ltd.	
2226A	Yokes to V.R. Drawings, Nos. 7604·9 I.Z. 45·11 or 5297·2	"	do.	38	15	0	Steel Co. of Aust. Pty. Ltd.		
2226B	Yokes to V.R. Drawings, Nos. 7604·9 I.Z. 45·11 or 5297·2	"	do.	38	15	0	Thompson's Eng. & Pipe Co. Ltd.		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
STEEL CASTINGS, ETC.—continued.							
	Castings, Steel (Gauge "C"), moulded within the limits of gauges, &c.— <i>continued.</i>						
	(b) Weights over 1 cwt.— <i>continued.</i>						
2226C	Yokes to V.R. Drawings, Nos. 7604·9 I.Z. 45·11 or 5297·2	Vict.		ton	38 15 0	Davies, Baird & Robertson Pty. Ltd.	
2227	Striking Plates to V.R. Drawings, Nos. 7636·14, 7611·1, V. 45·11 or Q.R. 45·1	"		do.	50 15 0	Chas. Ruwolt Pty. Ltd.	
2227A	Striking Plates to V.R. Drawings, Nos. 7636·14, 7611·1, V. 45·11 or Q.R. 45·1	"		do.	50 15 0	Steel Co. of Aust. Pty. Ltd.	
2227B	Striking Plates to V.R. Drawings, Nos. 7636·14, 7611·1, V. 45·11 or Q.R. 45·1	"		do.	50 15 0	Thompson's Eng. & Pipe Co. Ltd.	
2227C	Striking Plates to V.R. Drawings, Nos. 7636·14, 7611·1, V. 45·11 or Q.R. 45·1	"		do.	50 15 0	Davies, Baird & Robertson Pty. Ltd.	
2227AA	Centre Plate to V.R. Drawing No. "[" Sided M. 31·66 and 0·67	"	See previous page	do.	38 0 0	Chas. Ruwolt Pty. Ltd.	
2227AB	Centre Plate to V.R. Drawing No. "[" Sided M. 31·66 and 0·67	"		do.	38 0 0	Steel Co. of Aust. Pty. Ltd.	
2227AC	Centre Plate to V.R. Drawing No. "[" Sided M. 31·66 and 0·67	"		do.	38 0 0	Thompson's Eng. & Pipe Co. Ltd.	
2227AD	Centre Plate to V.R. Drawing No. "[" Sided M. 31·66 and 0·67	"		do.	38 0 0	Davies, Baird & Robertson Pty. Ltd.	
2228	Transition Coupler Shanks to V.R. Drawings, Nos. 7711 or 5191·13	"		do.	38 15 0	Chas. Ruwolt Pty. Ltd.	
2228A	Transition Coupler Shanks to V.R. Drawings, Nos. 7711 or 5191·13	"		do.	38 15 0	Steel Co. of Aust. Pty. Ltd.	
2228B	Transition Coupler Shanks to V.R. Drawings, Nos. 7711 or 5191·13	"		do.	38 15 0	Thompson's Eng. & Pipe Co. Ltd.	
2228C	Transition Coupler Shanks to V.R. Drawings, Nos. 7711 or 5191·13	"		do.	38 15 0	Davies, Baird & Robertson Pty. Ltd.	
2228AA	Engine Coupler Pocket to V.R. Drawing No. 5193·5	"		do.	38 0 0	Chas. Ruwolt Pty. Ltd.	
2228AB	Engine Coupler Pocket to V.R. Drawing No. 5193·5	"		do.	38 0 0	Steel Co. of Aust. Pty. Ltd.	
2228AC	Engine Coupler Pocket to V.R. Drawing No. 5193·5	"		do.	38 0 0	Thompson's Eng. & Pipe Co. Ltd.	
2228AD	Engine Coupler Pocket to V.R. Drawing No. 5193·5	"		do.	38 0 0	Davies, Baird & Robertson Pty. Ltd.	
	Castings, Steel (Grade "C"), without machining, as specified—						
2229	Crossheads, A1, A2, C, D1, 2, 3, and 4, K, N, S, and X Class, as ordered	"	4 tons	do.	60 0 0	Chas. Ruwolt Pty. Ltd.	
2229A	Crossheads, A1, A2, C, D1, 2, 3, and 4, K, N, S, and X Class, as ordered	"		do.	60 0 0	Steel Co. of Aust. Pty. Ltd.	
2229B	Crossheads, A1, A2, C, D1, 2, 3, and 4, K, N, S, and X Class, as ordered	"		do.	60 0 0	Thompson's Eng. & Pipe Co. Ltd.	
2229C	Crossheads, A1, A2, C, D1, 2, 3, and 4, K, N, S, and X Class, as ordered	"		do.	60 0 0	Davies, Baird & Robertson Pty. Ltd.	
2229AA	Crossheads, narrow gauge	"		cwt.	3 0 0	Chas. Ruwolt Pty. Ltd.	
2229AB	Crossheads, narrow gauge	"		do.	3 0 0	Steel Co. of Aust. Pty. Ltd.	
2229AC	Crossheads, narrow gauge	"		do.	3 0 0	Thompson's Eng. & Pipe Co. Ltd.	
2229AD	Crossheads, narrow gauge	"		do.	3 0 0	Davies, Baird & Robertson Pty. Ltd.	
2229BA	Crossheads, Garratt	"		5 cwt	do.	3 0 0	Chas. Ruwolt Pty. Ltd.
2229BB	Crossheads, Garratt	"		do.	3 0 0	Steel Co. of Aust. Pty. Ltd.	
2229BC	Crossheads, Garratt	"	do.	3 0 0	Thompson's Eng. & Pipe Co. Ltd.		
2229BD	Crossheads, Garratt	"	do.	3 0 0	Davies, Baird & Robertson Pty. Ltd.		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
STEEL CASTINGS, ETC.—continued.								
	Castings, Steel (Grade "C"), machined, as specified—							
2230	Crossheads, A2 (Walschaert Gear), to V.R. Drawing No. 135A	Vict.	4 tons	each	10	14	0	Chas. Ruwolt Pty. Ltd.
2230A	Crossheads, A2 (Walschaert Gear), to V.R. Drawing No. 135A	"		do.	10	14	0	Steel Co. of Aust. Pty. Ltd.
2230B	Crossheads, A2 (Walschaert Gear), to V.R. Drawing No. 135A	"		do.	10	14	0	Thompson's Eng. & Pipe Co. Ltd.
2230C	Crossheads, A2 (Walschaert Gear), to V.R. Drawing No. 135A	"		do.	10	14	0	Davies, Baird & Robertson Pty. Ltd.
2230AA	A1, A2 (Stevenson Gear), and S to V.R. Drawing, S. 15·5	"		do.	10	8	6	Chas. Ruwolt Pty. Ltd.
2230AB	A1, A2 (Stevenson Gear), and S to V.R. Drawing, S. 15·5	"		do.	10	8	6	Steel Co. of Aust. Pty. Ltd.
2230AC	A1, A2 (Stevenson Gear), and S to V.R. Drawing, S. 15·5	"		do.	10	8	6	Thompson's Eng. & Pipe Ltd.
2230AD	A1, A2 (Stevenson Gear), and S to V.R. Drawing, S. 15·5	"		do.	10	8	6	Davies, Baird & Robertson Pty. Ltd.
2230BA	Crossheads, D1, 2, 3, and 4, to V.R. Drawing No. 14	"		do.	9	0	0	Chas. Ruwolt Pty. Ltd.
2230BB	Crossheads, D1, 2, 3, and 4, to V.R. Drawing No. 14	"		do.	9	0	0	Steel Co. of Aust. Pty. Ltd.
2230BC	Crossheads, D1, 2, 3, and 4, to V.R. Drawing No. 14	"		do.	9	0	0	Thompson's Eng. & Pipe Co. Ltd.
2230BD	Crossheads, D1, 2, 3, and 4, to V.R. Drawing No. 14	"		do.	9	0	0	Davies, Baird & Robertson Pty. Ltd.
2230CA	Crossheads, C and X to V.R. Drawing C. and X. 17	"		do.	11	10	6	Chas. Ruwolt Pty. Ltd.
2230CB	Crossheads, C. and X. to V.R. Drawing C. and X. 17	"		do.	11	10	6	Steel Co. of Aust. Pty. Ltd.
2230CC	Crossheads, C. and X. to V.R. Drawing C. and X. 17	"		do.	11	10	6	Thompson's Eng. & Pipe Co. Ltd.
2230CD	Crossheads, C. and X. to V.R. Drawing C. and X. 17	"		do.	11	10	6	Davies, Baird & Robertson Pty. Ltd.
2230DA	Crossheads, K. and N. to V.R. Drawing K. and N. 17	"		do.	9	6	6	Chas. Ruwolt Pty. Ltd.
2230DB	Crossheads, K. and N. to V.R. Drawing K. and N. 17	"		do.	9	6	6	Steel Co. of Aust. Pty. Ltd.
2230DC	Crossheads, K. and N. to V.R. Drawing K. and N. 17	"		do.	9	6	6	Thompson's Eng. & Pipe Co. Ltd.
2230DD	Crossheads, K. and N. to V.R. Drawing K. and N. 17	"		do.	9	6	6	Davies, Baird & Robertson Pty. Ltd.
2230EA	Crossheads, narrow gauge, V.R. Drawing N. A. 5344.1	"	5 cwt.	do.	7	0	0	Chas. Ruwolt Pty. Ltd.
2230EB	Crossheads, narrow gauge, V.R. Drawing N. A. 5344.1	"		do.	7	0	0	Steel Co. of Aust. Pty. Ltd.
2230EC	Crossheads, narrow gauge, V.R. Drawing N. A. 5344.1	"		do.	7	0	0	Thompson's Eng. & Pipe Co. Ltd.
2230ED	Crossheads, narrow gauge, V.R. Drawing N. A. 5344.1	"		do.	7	0	0	Davies, Baird & Robertson Pty. Ltd.
2230FA	Crossheads, Garratt, V.R. Drawing G. 78	"		do.	4	10	0	Chas. Ruwolt Pty. Ltd.
2230FB	Crossheads, Garratt, V.R. Drawing G. 78	"		do.	4	10	0	Steel Co. of Aust. Pty. Ltd.
2230FC	Crossheads, Garratt, V.R. Drawing G. 78	"		do.	4	10	0	Thompson's Eng. & Pipe Co. Ltd.
2230FD	Crossheads, Garratt, V.R. Drawing G. 78	"		do.	4	10	0	Davies, Baird & Robertson Pty. Ltd.
	Castings, Steel (Grade "C"), as specified—							
2231	Frame Stays and Bogie Centres ..	"	38 tons	ton	54	0	0	Chas. Ruwolt Pty. Ltd.
2231A	Frame Stays and Bogie Centres ..	"		do.	54	0	0	Steel Co. of Aust. Pty. Ltd.
2231B	Frame Stays and Bogie Centres ..	"		do.	54	0	0	Thompson's Eng. & Pipe Co. Ltd.
2231C	Frame Stays and Bogie Centres ..	"		do.	54	0	0	Davies, Baird & Robertson Pty. Ltd.

STEEL CASTINGS—JUNCTION FISHPLATES.
SPECIFICATION.

Patterns.—The Corporation will supply all patterns to the Contractor at the Way and Works Branch Workshops, Spotswood, Victoria, upon requisition to the Comptroller of Stores.

The patterns shall be kept in proper repair by the Contractor, and shall be returned in good order and condition to the Workshops Manager, Spotswood, on completion of each service ordered.

Description.—The Cast Steel Junction Fishplates shall be of the classes and weights ordered from time to time.

Quality of Material.—The castings shall be manufactured from steel produced by an approved process, and must not show on analysis more than 0.05 per cent. of sulphur or phosphorus.

Heat Treatment.—All castings shall be thoroughly annealed by heating to a temperature not less than the normalizing temperature (not exceeding 900 degrees C.) and allowing to cool slowly from the maximum temperature in a practically uniform manner.

Moulding.—The castings shall be accurately moulded in accordance with the patterns supplied, with the letters and figures well defined (denoting the hand, &c., and weights of rails), and in addition shall have a test bar of $\frac{1}{2}$ inch square section and 2 inches long cast thereto for the cold bend test.

The castings shall be of the highest quality and finish, free from shrinkage, recesses, holes, sand, and scale, with smooth and straight bearing faces so that a perfect fit to the heads and flanges of the rails is always maintained.

Repairs to Defective Castings.—Any defects or unsound metal which a casting may have, from whatever cause arising shall be left bare and no filling with the object of obliterating such defects will be permitted.

Cold Bend Test.—The test bar attached to each casting must withstand, without fracture, being bent double by striking with a 14-lb. hammer. Should any test bar fail to fulfil the test the casting from which the test bar was tested will be rejected.

Inspection.—The Superintending Officer shall have free access to the works of the Manufacturer at all reasonable times during the course of manufacture of the castings. He shall be at liberty to inspect the castings at any stage, and to reject any casting or material that is unsound or does not otherwise conform to the terms of this Specification (even if they have withstood the cold bend test), and shall have the right to destroy or witness the destruction of any rejected fishplates. Every approved Cast Steel Junction Fishplate shall be indelibly stamped by the Superintending Officer at one end thus—(V R) ($\frac{1}{2}$ inch diameter), also a letter indicating the Manufacturer's initial; thus—R. The castings shall NOT be coated with any substance.

Latent Defects.—In the event of any casting supplied under this contract proving unserviceable during the first six months' use, due to any defect which could not reasonably have been discovered by visual or other examination of the casting, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective casting.

Delivery.—The Cast Steel Junction Fishplates shall be delivered at the Way and Works Branch Workshops, Spotswood, Victoria, or loaded into railway trucks by and at the cost of the Contractor at the Spencer-street Railway Station, and consigned to the Workshops Manager, Spotswood, Victoria, on blue consignment notes, which will be supplied by the Superintending Officer.

If the cost of production be varied as the result of any alteration in any industrial award, the contract rate shall be subject to amendment as may be determined by the Comptroller of Stores.

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
2232	Cast Steel Junction Fishplates (annealed) with wearing surfaces, as ordered from time to time	Vict.	11 tons	ton	£ s. d. 42 0 0	Chas. Ruwolt Pty. Ltd.
2233 to 2237	Nil					

GALVANIZED IRON.

SPECIFICATION FOR GALVANIZED IRON SHEET.

Samples.—The tenderer shall submit one sheet of galvanized iron for each quality of galvanizing of plain and corrugated iron; every sheet submitted shall be clearly branded, and labelled so that the item or items to which each relates is definite.

Quality.—The galvanized iron, both corrugated and plain, shall be manufactured from high grade wrought iron or low carbon steel, galvanized with a continuous coating of zinc of uniform thickness, and so applied that it adheres firmly to the surface of the iron or steel. The finished product shall be smooth, without adhering clumps or drops of spelter. The samples submitted shall be subjected to tests to determine the following properties:—

- (a) The weight of zinc coating, expressed in ounces, on both sides of a sheet one foot square;
- (b) The continuity of the zinc coating;
- (c) The uniformity of the zinc coating;

Consideration will be given to the results obtained, in deciding the galvanized iron 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 agree therewith.

Orders will be placed in case lots, and in minimum quantities of tons, made up of one or more items, and 14 days allowed for delivery to permit of importation.

The rates shall not include wharfage. Bills of Lading shall be made out in the name of the Victorian Railways Commissioners to enable the Corporation to obtain exemption of wharfage. Wharfage will be cleared by the Corporation, and delivery order returned to Contractor to complete delivery to Spencer-street.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—		Name of Contractor.	
				Rate.	£ s. d.		
<i>GALVANIZED IRON—continued.</i>							
Sheet, Corrugated, 25 gauge—							
2238	5'	2 tons	ton	..	}	
2239	6' .. .. .	.. .. .	5 "	do.	..	
2240	7' .. .. .	.. .. .	3 "	do.	..	
2241	8' .. .. .	.. .. .	5 "	do.	..	
2242	9' .. .. .	.. .. .	2 "	do.	..	
2243	10' .. .. .	.. .. .	2 "	do.	..	
2244	6', 1" pitch	.. .. .	1 "	do.	..	
2245	7', 1" pitch	.. .. .	1 "	do.	..	
2246	8', 1" pitch	.. .. .	Nil "	do.	..	
Sheet, Corrugated, 24 gauge—							
2247	5' .. .. .	.. .. .	2 "	do.	..	
2248	6' .. .. .	.. .. .	10 "	do.	..	
2249	7' .. .. .	.. .. .	2 "	do.	..	
2250	8' .. .. .	.. .. .	4 "	do.	..	
2251	9' .. .. .	.. .. .	9 "	do.	..	
2252	10' .. .. .	.. .. .	2 "	do.	..	
Sheet, Plain, 28 gauge—							
2253	6' x 2'	Nil "	do.	..	}	
2254	6' x 2' 6"	.. .. .	Nil "	do.	..	
2255	6' x 3'	.. .. .	Nil "	do.	..	
Sheet, Plain, 26 gauge—							
2256	6' x 2' 6"	.. .. .	2 "	do.	..	
2256A	6' x 2' 6"	.. .. .	3 "	do.	..	
2257	6' x 3'	.. .. .	5 "	do.	..	
Sheet, Plain, 24 gauge—							
2258	6' x 22"	.. .. .	3 "	do.	..	
2258A	6' x 2'	.. .. .	3 "	do.	..	
2259	6' x 2' 6"	.. .. .	3 "	do.	..	
2260	6' x 3'	.. .. .	20 "	do.	..	
Sheet, Plain, 22 gauge—							
2261	6' x 2' 6"	.. .. .	1 "	do.	..	
2262	6' x 3'	.. .. .	2 "	do.	..	
Sheet, Plain, 20 gauge—							
2263	6' x 2'	.. .. .	1 "	do.	..	
2264	6' x 2' 6"	.. .. .	Nil "	do.	..	
2265	6' x 3'	.. .. .	8 "	do.	..	
Sheet, Plain, 18 gauge—							
2266	6' x 2'	.. .. .	Nil "	do.	..	
2267	6' x 2' 6"	.. .. .	Nil "	do.	..	
2268	6' x 3'	.. .. .	Nil "	do.	..	
Sheet, Plain, 16 gauge—							
2269	6' x 2'	2 tons	ton	..	}	
2270	6' x 2' 6"	.. .. .	3 "	do.	..	
2271	6' x 3'	.. .. .	12 "	do.	..	
2272 to 2275	Nil	.. .. .				

DRAWING PAPERS, PAPER BAGS, ETC.

* Items Nos. 2279, 2282, and 2283. Plus ruling rate of T.T. Exchange on date of delivery on 80 per cent.

Paper, Drawing—						
†2276	Antiquarian, hand-made, James Whatman, "N.O.T." or other approved maker	U.K.	6 quires	quire	3 15 0	W. & G. Dean Pty. Ltd.
†2277	Antiquarian, mounted on holland, 25 yards per roll	"	2 rolls	roll	11 0 0	Sands & McDougall Pty. Ltd.
†2278	Double Elephant, hand-made, "James Whatman" or H.P.	"	2 quires	quire	1 7 6	W. & G. Dean Pty. Ltd.
†2279	Cartridge, 60" wide, continuous, in rolls of 50 yards, No. 60A.	"	10 rolls	roll	*1 3 0	R. C. Paterson & Co. Pty. Ltd.
†2280	Cartridge, 54" wide, mounted on linen, in rolls of 50 yards	..	3 "	do.	..	Nil
2281	Tenax, 60" wide, continuous, in rolls of 50 yards	..	2 "	do.	..	Nil

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
DRAWING PAPERS, PAPER BAGS, ETC.—continued.							
*2282	Cloth, Tracing— 30" wide, 24 yards in roll, "Sagars" ..	U.K.	30 rolls	roll	*3 2 0	} W. & G. Dean Pty. Ltd.	
*2283	38" wide, 24 yards in roll, "Sagars" ..	"	30 "	do.	*3 10 0		
†2284	Paper, Tracing, unoiled, continuous 40" wide, 22 yards in roll ..	"	25 "	do.	..	Nil	
Bags, Paper, Brown, long or square, as ordered—							
†2285	1 lb.	Vict.	260,000	1,000	0 2 6 $\frac{3}{4}$	}	
†2286	2 lb.	"	300,000	do.	0 3 8		
†2287	3 lb.	"	150,000	do.	0 5 0 $\frac{1}{2}$		
†2288	4 lb.	"	330,000	do.	0 6 0 $\frac{1}{2}$		
†2289	6 lb.	"	100,000	do.	0 7 3 $\frac{1}{2}$		
Bags, Paper, Confectionery—							
†2290	4 oz.	"	18,000	do.	0 1 7 $\frac{1}{2}$	}	
†2291	8 oz.	"	45,000	do.	0 1 10 $\frac{1}{2}$		
†2292	16 oz.	"	12,000	do.	0 2 6		
Bags, Paper, Kraft, Brown, heavy—							
†2293	6 lb.	"	3,000	do.	0 13 6	} A. J. Wallace	
†2294	8 lb.	"	15,000	do.	0 17 6		
†2295	12 lb.	"	16,000	do.	1 10 0		
†2296	16 lb.	"	2,000	do.	1 14 0		
Bags, Sugar, Sulphite—							
†2297	1 lb.	"	3,000	do.	0 6 0	}	
†2298	2 lb.	"	5,000	do.	0 8 4		
†2299	3 lb.	"	3,000	do.	0 10 6		
†2300	4 lb.	"	4,000	do.	0 11 6		
†2301	6 lb.	"	1,000	do.	0 13 6		
†2302	8 lb.	"	500	do.	0 17 6		
†2303	10 lb.	"	500	do.	1 5 0		
†2304	Bags, Coin, 5" x 7"	"	6,000	do.	0 5 6		
Boxes, Cardboard—							
*2305	7 $\frac{1}{2}$ " x 4" x 2 $\frac{1}{2}$ " (inside)	Vict.	37 doz.	dozen	0 1 0		Sands & McDougall Pty. Ltd.
Envelopes—							
†2306	Glazed Manilla, Pocket, 2 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ " ..	Vict. (partly)	4,500	1,000	0 4 4	} A. Cowan & Sons Ltd. Spicers & Detmold Ltd.	
*2307	First Quality, White, Note, 5 $\frac{3}{8}$ " x 3 $\frac{1}{8}$ " ..	"	15,000	do.	0 4 0		
†2308	Pence, M.G. Manilla, 3" x 2 $\frac{3}{8}$ "	Vict.	30,000	do.	0 4 0		
Rolls of Paper—							
†2309	Burroughs Adding Machine Paper, 3 $\frac{1}{16}$ " in 100 yard rolls	N.S.W. (partly)	375 rolls	rolls	2 17 9	} Robertson & Mullen Ltd.	
†2310	Barretts Adding Machine, 2 $\frac{5}{16}$ " wide in 100 yard rolls	"	37 "	do.	2 4 6		
†2311	Paper, Brown, Gummed Adhesive, 1" wide, 800' to roll	Vict. (partly)	110 "	roll	0 0 11 $\frac{1}{2}$	} Spicers & Detmold Ltd.	
†2312	White News, 12" wide x 50 yards long ..	"	900 "	do.	0 0 11		
*2313	Tabulating Rolls for Powers Machine ..	N.S.W. (partly)	750 "	do.	0 1 1 $\frac{1}{2}$	} Robertson & Mullens Ltd.	
†2314	Tape, Telegraph Instrument, $\frac{1}{2}$ " white approx. 450 yards	"	336 lbs.	lb.	0 0 8 $\frac{3}{4}$		
Visiting Cards—							
†2315	Cards, Gent's Visiting, round or square cornered, as ordered (boxes of 50's), "Rajah" or any other suitable alternative	Vict. (partly)	100 boxes	box	0 0 3 $\frac{1}{4}$	Sands & McDougall Pty. Ltd.	
2316 to 2324	} Nil.						

PRINTING AND WRITING PAPERS, ETC.

The Printing Papers shall be equal in quality, weight, and colour to the samples furnished by the Contractor and accepted by the Corporation, and shall be cut to the true size ordered. Each ream shall contain 500 sheets, and shall be supplied flat (not folded). No creased or damaged paper will be accepted.

The Writing Papers shall be equal in quality, weight, and colour to the samples furnished by the Contractor and accepted by the Corporation, and shall be cut to the true size ordered. Each ream shall contain 480 sheets, and shall be supplied flat (not folded). No creased or damaged paper will be accepted.

PRINTING AND WRITING PAPERS—continued.

* As regards Items 2325, 2326, 2329, 2330, 2339-2341, 2344, 2359, 2360, 2363, 2364, 2366, 2369, 2371-2373, 2375-2379, 2381, 2382, 2383, 2391-2394, and 2396 the contract rates are plus ruling rates of T.T. Exchange on date of delivery on 80 per cent.

As regards items 2326 and 2366 the rates are subject to adjustment in the event of there being any alteration in Sea Freights affecting such items, provided such alteration is published in the press.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
Printing Papers—								
†2325	Quad. Crown, News, 44 lb.	U.K.	120 reams	ream	*0	7	10	Spicers & Detmold Ltd.
†2326	" M.G. Litho., 54 lb.	"	30	do.	*0	17	0	E. H. Cooper Pty. Ltd.
†2327	" Art, 72lb., 500's, "Lonsdale"	"	100	do.	} Nil
†2328	" Art, 120 lb., 500's, "Lonsdale"	"	5	do.	..	..	..
†2329	" White, 48 lb., "Caldu"	U.K.	400	do.	*0	12	11	} Wiggins, Teape & A. Pirie (Exp.) Ltd.
†2330	" Sup. Cal., 72 lb., "Caldu"	"	10	do.	*0	19	5	
†2331	Double Royal, Kraft Brown, 40 lb.	Vict.	300	do.	0	12	1	Australian Paper Manufactures Ltd.
†2332	" Blue, 48 lb.	"	20	do.	} Nil
†2333	" Cerise, 48 lb.	"	20	do.	..	..	..
†2334	" Green, 48 lb.	"	20	do.	..	..	..
†2335	" Red, 48 lb.	"	15	do.	..	..	..
†2336	" Salmon, 48 lb.	"	60	do.	..	..	..
†2337	" Yellow, 48 lb.	"	60	do.	..	..	..
†2338	" Pink, 48 lb.	"	15	do.	..	..	..
†2339	" White, 40 lb., "Caldu"	U.K.	700	ream	*0	10	9	
†2340	" White, 50 lb., "Caldu"	"	200	do.	*0	13	5	
†2341	" News, 37 lb.	"	350	do.	*0	6	7		Spicers & Detmold Ltd.
†2342	" M.G., 80 lb.	"	10	do.	} Nil
†2343	" Art, 60 lb., 500's,	"	30	do.	..	..	..
†2344	Quad. Foolscap, White, 37lb., "Caldu"	U.K.	700	do.	*0	9	11	Wiggins, Teape & A. Pirie (Exp.) Ltd.
†2345	" Yellow, 40 lb.	"	40	do.	} Nil
†2346	Double Medium, Cerise, 80 lb.	"	3	do.	..	..	..
†2347	" Yellow, 80 lb.	"	2	do.	..	..	..
†2348	" Salmon, 80 lb.	"	3	do.	..	..	..
†2349	" Blue, 80 lb.	"	2	do.	..	..	..
†2350	" Art, 56 lb., 500's	"	100	ream	..	..	..
†2351	" Old Gold, 60 lb.	"	Nil	do.	
†2352	Glazed Cap, 36" x 24", 45 lb.	N.S.W.	30	do.	0	16	0	} Australian Paper Manfs. Ltd.
†2353	Smooth Cartridge, 20" x 25", 40 lb.	Vict.	120	do.	0	18	6	
†2354	Double Demy, Yellow, 40 lb.	"	20	do.	} Nil
†2355	" Green, 40 lb.	"	10	do.	..	..	..
†2356	" Pink, 40 lb.	"	50	do.	..	..	..
†2357	" Red, 40 lb.	"	10	do.	..	..	..
†2358	" Salmon, 40 lb.	"	10	do.	} Spicer & Detmold Ltd.
†2359	" News, 28 lb.	U.K.	650	ream	*0	5	0	
†2360	" White, 40 lb., "Caldu"	"	200	do.	*0	10	9		Wiggins, Teape & A. Pirie (Exp.) Ltd.
†2361	" White, Sup. Cal., 40 lb.	"	Nil	do.	} Nil
†2362	" Green, 24 lb.	"	Nil	do.	..	..	..
†2363	Demy, White, Gummed, 1st quality, 500's, non-curling, "Don"	U.K.	8 reams	ream	*0	19	6	} Wiggins, Teape & A. Pirie (Export) Ltd.
†2364	" " " 2nd quality, 500's, non-curling, "Dee"	"	200	do.	*0	16	0	
†2365	Double Crown, Manilla, Carte, 20" x 30", 100 lb.	Vict.	70	do.	1	19	7	Australian Paper Mfrs. Ltd.
†2366	" White Cap., 7-8 lb.	Scand.	250	do.	*0	3	0	E. H. Cooper Pty. Ltd.
†2367	" 19" x 29" Clear, Greaseproof, 15-17 lb.	"	100	do.	} Nil
†2368	Paper, Striped Scaling or Brown Cap, 19" x 29", 8 lb.	"	8	do.	..	..	..
Lithographic Papers—								
†2369	51" x 31", 160 lb. "75055"	U.K.	14	ream	*2	13	9	Wiggins, Teape & A. Pirie (Export) Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
PRINTING AND WRITING PAPERS—continued.							
†2370	Writing Papers— Double Large Post, Bank, White, 22 lb.	Vict.	150 reams	ream	0 9 7½	Australian Paper Manfs. Ltd.	
†2371	" " White, 36 lb. ..	U.K.	20 "	do.	*0 12 0	Spicers & Detmold Ltd.	
†2372	" " White, 46 lb. "Inverdon"	"	10 "	do.	*1 3 0	Wiggins, Teape & A. Pirie (Export) Ltd.	
†2373	" " Azure, 46 lb., "Inverdon"	"	10 "	do.	*1 3 0		
†2374	" Medium Bond, White, 36 lb. ..	"	250 "	"	"	Nil	
†2375	" " Blue, 36 lb. "Aqua-tint"	U.K.	15 "	ream	0 17 3	Wiggins, Teape & A. Pirie (Export) Ltd.	
†2376	" " Green, 36 lb. do. ..	"	15 "	do.	*0 17 3		
†2377	" " Pink, 36 lb. do. ..	"	25 "	do.	*0 17 3		
†2378	" " Yellow, 36 lb. do. ..	"	25 "	do.	*0 17 3		
†2379	" Medium, Azure, 68 lb., "Standard Ledger"	"	10 "	do.	*2 5 4		
†2380	Quad. Foolscap, Bank, 15 lb. (Manifolding)	"	Nil	do.	"	Nil	
†2381	" Azure Laid, 60 lb., "Standard Ledger"	U.K.	60 "	do.	*2 0 0	Wiggins, Teape & A. Pirie (Export) Ltd.	
†2382	" Azure, 48 lb. "74828"	"	25 "	do.	*0 15 0		
†2383	" White, 48 lb. Wove "Inverdon"	"	550 "	do.	*0 19 7½		
†2384	" Duplicating White, 48 lb., hard-sized	Vict.	1,000 "	do.	1 2 0	Australian Paper Manufactures Ltd.	
†2385	" Bank, White, 28 lb. ..	"		do.	0 12 3		
†2386	" Cerise, 28 lb. ..	"		do.	0 12 3		
†2387	Double Royal, Bank, White, 30 lb. ..	"		850 "	do.		0 13 1½
†2388	Double Demy, Bank, White, 25 lb. ..	"		do.	0 10 11¼		
†2389	" Old Gold, 25 lb. ..	"	do.	0 10 11¼	Nil		
†2390	Double Foolscap, Blue, 24 lb. ..	"	5 "	do.		"	
†2391	" C.L., 28 lb., "Conqueror"	U.K.	75 "	do.	*1 8 0	Wiggins, Teape & A. Pirie (Export) Ltd.	
†2392	" 28 lb., "Bank Mill-Extra Strong"	"	18 "	do.	*1 0 2	A. Cowan & Sons Ltd.	
†2393	Double Demy, Azure, 48 lb. "Standard Ledger"	"	25 "	do.	*1 12 0	Wiggins, Teape & A. Pirie (Export) Ltd.	
†2394	Royal Azure, 42 lb. "Standard Ledger"	"	3 "	do.	*1 8 0		
†2395	Azure Laid, 17½" x 40", guillotine trimmed all sides (Quad. Foolscap, Azure, 56 lb. substance)	Vict.	350 "	do.	1 1 6	Australian Paper Mfctrs. Ltd.	
†2396	27" x 41", White, 75 lb., 500's "Cranston"	U.K.	30 "	do.	*1 5 0	Wiggins, Teape & A. Pirie (Exp.) Ltd.	
Blotting Paper—							
†2397	Demy, White, 36 lb. ..	Vict.	800 {	do.	0 19 6	Australian Paper Mftrs. Ltd.	
†2397A	" " " in lots of 50 reams ..	"		do.	0 18 0		
†2398	" " 46 lb. 1st quality, folded or flat, as ordered, "Rag" ..	"		18 "	do.		2 6 0
2399 to 2400	Nil.						

CARBON PAPER.

As regards Items Nos. 2415, 2416, and 2417, the Carbon Paper must be capable of taking five clear copies and of durable quality.

* Items Nos. 2401 and 2402—the rates are plus T.T. Exchange ruling on date of delivery on 80 per cent. of Contract rate.

The rates for Items 2406, 2408–2412, 2416, 2417 and 2420 are firm.

Name of Manufacturer—

Items 2401–2402.—Farquharson Bros. Ltd., Scotland.

Items 2406, 2408–2412, 2416, 2417 and 2420.—Swallow Mfg. Co., London,

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
CARBON PAPER—continued.						
	Paper, Carbon, blue, extra rich, two sides, 20 lb.—					
†2401	Demy Folio, 17½" x 11¼", Pencil, "Cyro"	U.K.	36 reams	ream	*2 6 8	} Harston, Partridge & Co. Pty. Ltd.
†2402	Foolscap Folio, 13½" x 8½", Pencil, "Cyro"	"	3 "	do.	*1 11 6	
†2403	Paper, Carbon Billing blue, Brief, 16" x 13", in boxes of 100 sheets, "Hall Mark"	Vict. (partly)	100 boxes	100 sheet	0 5 0	
	Paper, Carbon, Pen—					
†2404	Foolscap Quarto, 50 sheets per box, "Hall Mark"	"	30 "	do.	0 1 0	} Ramsay & Hall Pty. Ltd.
†2405	17½" x 7½", "Hall Mark"	"	2,800 sheets	1 0 sheets	0 3 6	
†2406	17½" x 10"	U.K.	2,700 "	"	0 4 0	J. Withers & Son. Pty. Ltd.
†2407	Paper, Carbon, Pencil— Foolscap Folio, 13" x 8", "Hall Mark" ..	Vict. (partly)	109,000 "	do.	0 2 5	Ramsay & Hall Pty. Ltd.
	Paper, Carbon, Typewriting, black (corner to be cut off each sheet), "Swallow—					
†2408	Foolscap Folio, 13" x 8", to produce up to 20 copies	U.K.	26,000 "	do.	0 2 11	} J. Withers & Son Pty. Ltd.
†2409	" 13" x 8", to produce up to 6 copies	"	60,000 "	do.	0 2 3	
†2410	Foolscap, 16" x 13", to produce up to 20 copies	"	5,800 "	do.	0 5 10	
†2411	" 16" x 13", to produce up to 6 copies	"	6,000 "	do.	0 4 6	
	Paper, Carbon, Typewriting—					
†2412	17½" x 10", to take 3 copies, "Swallow" ..	"	4,000 "	do.	0 4 3	} Ramsay & Hall Pty. Ltd.
†2413	17½" x 7½" " " "Hall Mark"	Vict. (partly)	250 "	do.	0 3 6	
†2414	10" x 4", for Addressograph Machine, "Hall Mark"	"	250 "	do.	0 2 0	J. Withers & Son Pty. Ltd.
	Paper, Carbon, Pencil, blue, one-sided, to be coated on 9-lb. paper—					
†2415	24" x 4½", to take 5 copies, "Hall Mark"	"	4,000 "	do.	0 2 5	} J. Withers & Son Pty. Ltd.
†2416	19" x 9" " " "Swallow" N.T.	U.K.	3,000 "	do.	0 3 9	
†2417	18" x 5½" " " " " " "	"	8,000 "	do.	0 2 3	
†2418	27" x 5", "Hall Mark"	Vict. (partly)	250 "	100 sheets	0 3 0	Ramsay & Hall Pty. Ltd.
†2419	15" x 5", "Hall Mark"	"	1,000 "	do.	0 2 0	} J. Withers & Son Pty. Ltd.
†2420	15" x 9", "Swallow" N.T.	U.K.	600 "	do.	0 3 0	
†2421	15" x 8", "Hall Mark"	Vict. (partly)	700 "	do.	0 3 3	Ramsay & Hall Pty. Ltd.
†2422	13" x 8", "Hall Mark"	"	20,000 "	do.	0 2 5	} Ramsay & Hall Pty. Ltd.
†2423	13" x 5", "Hall Mark"	"	4,000 "	do.	0 1 6	
†2424	12" x 5", "Hall Mark"	"	98,000 "	do.	0 1 6	
†2425	11½" x 11½", "Hall Mark"	"	1,700 "	do.	0 3 8	
†2426	11" x 9", "Hall Mark"	"	2,700 "	do.	0 2 9	
†2427	11" x 6", "Hall Mark"	"	4,500 "	do.	0 1 6	
2428	Nil.					

OFFICE REQUISITES.

As regards Items Nos. 2433, 2434, 2436, 2439, 2451, 2453, 2456, 2457, 2459, 2474, and 2480 the rates are based on T.T. Exchange at 30.5 %, and should there be any reduction in this rate during the Contract the Contract rates shall be reduced to the satisfaction of the Comptroller of Stores, such reductions to apply to any stores ordered after the expiration of two months from the published date of altered Exchange rate.

As regards Items 2437, 2440-2444, 2449, 2452, 2454, 2455, 2466, 2470, 2471, 2472, 2473, 2479, 2481, and 2482 the Contract rates are plus ruling rates of T.T. Exchange on date of delivery on 80 %.

*2429	Bands, Elastic, extra strong, ½-gross boxes—					} Nil
	No. 5	"	6 boxes	box	..	
*2430	No. 6	"	2 "	do.	..	
†2431	Bands, Elastic, extra large, grey	"	Nil	dozen	..	
†2432	" " thin, small, 4" x ½" x ¼"	Vict. (partly)	70 gross	gross	0 1 6	Dunlop-Perdriau Rubber Co. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
OFFICE REQUISITES— <i>continued.</i>						
†2433	Binders, Paper—					
	No. 642	U.K.	140 gross	gross	0 2 6½	Sands & McDougall Pty. Ltd.
†2434	No. 643	"	20 "	do.	0 3 5½	
†2435	No. 644	"	Nil "	do.		Nil
†2436	No. 645	U.K.	36 "	do.	0 5 11½	Sands & McDougall Pty. Ltd.
†2437	Bodkins as ordered	"	18	each	*0 0 6½	Spicers & Detmold Ltd.
†2438	Bowls, Glass, 4" at top, with sponge	U.K. & N.S.W.	24	do.	0 1 2	Sands & McDougall Pty. Ltd.
†2439	Clips, Bulldog, 2½"	U.K.	36 doz.	dozen	0 2 3	
†2440	Crayons, Pencil, solid—					
	Yellow "Alphco" 1756	U.K.	220 doz.	do.	*0 0 10½	Spicers & Detmold Ltd.
†2441	Crimson " " 1751	"	16 "	do.	*0 0 10½	
†2442	Green " " 1753	"	4 "	do.	*0 0 10½	
†2443	Black " " 1752	"	6 "	do.	*0 0 10½	
†2444	Blue " " 1750	"	24 "	do.	*0 0 10½	
†2445	Crayons, School, white	"	160 box e	box		Nil
†2446	Erasers, Ink and Pencil, small	"	Nil	dozen		
†2447	" I.R., pink, pliable, "M" large size	Vict. (partly)	70 lb.	ib.	0 2 6½	Sands & McDougall Pty. Ltd.
†2448	Erasers, I.R.	"	84 doz.	dozen	0 1 5½	Barnet Glass Rubber Co. Ltd.
	Fasteners, Paper, ordinary, in boxes of 1 gross—					
†2449	"Micro" "Premier"	U.K.	3 boxes	box	*0 0 4	Spicers & Detmold Ltd.
†2450	S.00	"	Nil "	do.		Nil
†2451	S.0	N.S.W.	2 "	do.	0 0 5½	Sands & McDougall Pty. Ltd.
†2452	S.1 "Premier"	U.K.	27 "	do.	*0 0 4½	Spicers & Detmold Ltd.
†2453	S.2	N.S.W.	180 "	do.	0 0 6½	Sands & McDougall Pty. Ltd.
†2454	S.3 "Premier"	U.K.	330 "	do.	*0 0 6½	Spicers & Detmold Ltd.
†2455	S.4 "Premier"	"	66 "	do.	*0 0 7½	
†2456	S.5	N.S.W.	60 "	do.	0 0 9½	Sands & McDougall Pty. Ltd.
†2457	S.6	"	144 "	do.	0 0 10½	
†2458	S.7	"	Nil "	do.		Nil
†2459	S.8	U.K.	4 "	do.	0 1 7	Sands & McDougall Pty. Ltd.
†2460	S.9	"	Nil "	do.		
†2461	S.10	"	8 "	do.		
†2462	S.11	"	Nil "	do.		
†2463	S.12	"	3 "	do.		Nil
*2464	Files, Foolscap, clip	"	60	each		
†2465	Gum, Art	"	20 doz.	dozen		
†2466	Holders, Pen, small No. 6003	U.K.	36 gross	gross	*0 4 11	Spicers & Detmold Ltd.
*2467	Inkstands, Glass, round, 4"	N.S.W.	100	each	0 1 11½	Sands & McDougall Pty. Ltd.
†2468	Knives, Desk	"	Nil	do.		Nil
†2469	Pads, Blotting, 23" x 18", with corners	Vic.	20	do.	0 2 11	Spicers & Detmold Ltd.
	Pens, Nibs, in boxes of 1 gross—					
†2470	Hinks Well, No. 9, Steel	U.K.	900 boxes	box	*0 0 10½	Australian Stationery Coy.
†2471	Myers "Kookaburra,"	"	110 "	do.	*0 2 5	
†2472	Brandeurs, "Herald"	"	36 "	do.	*0 2 6	Spicers & Detmold Ltd.
†2473	Bak-Fin "Ideal"	"	50 "	do.	*0 2 5	Robert Hutton
2474	Brandeurs, "Aerial," ("Scribbler")	"	20 "	do.	0 2 11	Sands & McDougall Pty. Ltd.
	Pens, Nibs, Gilt—					
†2475	Leonardts, 516 E.F.	"	60 "	do.		Nil
†2476	" " 526 F.	"	36 "	do.		
†2477	Easterbrooks, "Relief"	"	18 "	do.		
†2478	" " "Probate"	"	3 "	do.		
†2479	Pens, "Bak-Fan," Manifold	U.K.	50 "	do.	*0 2 5	Robert Hutton.
†2480	Pins, Best, Drawing, extra large, No. 494	"	72 doz.	doz.	0 1 0	Sands & McDougall Pty. Ltd.
†2481	" " " " medium, "Dianna" No. 4, in boxes of 1 gross	Gerny.	48 boxes	box	*0 0 6	Spicers & Detmold Ltd.
†2482	Pins, Best London, "Taylors" mixed, in packets of 1 oz.	U.K.	600 lb.	lb.	0 2 7	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
OFFICE REQUISITES— <i>continued.</i>								
†2483	Rulers, Flat, 15", brass edge	Vict.	130	each	0	0	5	Sands & McDougall Pty. Ltd.
†2484	Sponges, für 4" böwls	Vict.	200	do.	0	0	3½	Spicers & Detmold Ltd.
†2485	Wax, Scaling, Red 7¾" long. "Southern Cross"	(partly) Vict.	12 lb.	lb.	0	1	5¼	Sands & McDougall Pty. Ltd.
†2486	Wells, Water .. ..	..	Nil	each	..	..	..	Nil
2487	} Nil.	..	..	..	..	..	..	..
to		..	..	..	..	..	..	..
2491		..	..	..	..	..	..	..

AMBULANCE MATERIAL.

* As regards Items Nos. 2492, 2496, 2501-2506, 2522, 2540, 2541, and 2575-2577, the Contract rates are plus ruling rates of T.T. exchange on date of delivery on 80 per cent.

H. Francis & Co. shall not be under obligation to supply more than the estimated requirements.

As regards Items 2501 and 2503, the maximum quantities to be supplied shall be 280 doz. and 48 doz. respectively, the balance to be ordered under Items Nos. 2501A and 2503A.

As regards Item No. 2553, 3s. 6d. will be allowed by contractor for bottles on return.

2492	Acid, Boracic	U.K.	12 lb.	lb.	*0	0	6	Felton, Grimwade & Duerdins Ltd.						
2493	" Crystals (pure Welsh)	Nil	do.	} Nil						
2494	" Picric .. ..	..	2 "	do.	..	..	..				
2495	Ammonia, Liquid, 880, Bulk	Nil	gallon	} Felton, Grimwade & Duerdins Ltd.						
2496	" Vaporole (12 in tin)	U.K.	2 "	dozen	*1	9	0							
2497	Plastine (Hospital size, 5-lb. tins) ..	Vict.	86 tins	tin	0	5	6	} Nil						
2498	Arnica, Tincture of (bulk) .. ..	..	2 lb.	lb.	..	..	..				
2499	Aspirin, 5-gr. tablets (500 in bottle) ..	Vic.	3 bots.	bottle	0	2	2	} Felton, Grimwade & Duerdins Ltd.						
2500	Balsam, Friar's, with Methylated Spirits (bulk)	"	40 lb.	10 fluid ozs.	0	2	3							
2501	Bandages, Calico, Roller—	U.K.	540 doz.	doz.	*0	2	10½	} H. Francis & Co. Felton, Grimwade & Duerdins Ltd.						
2501A	3 in. x 6 yds.	"			240 "	do.	*0		3	0				
2502	2 in. x 6 yds.	"					200 "		do.	*0	0	11½		
2503	1 in. x 6 yds.	"								" }	" }	*0	1	0
2503A	1 in. x 6 yds.	"										*0	1	0
2504	Bandages, Open Wove, Roller—	..	250 "	do.	*0	1	9	} H. Francis & Co.						
2505	3 in. x 6 yds.	"	50 "	do.	*0	1	1½							
2506	2 in. x 6 yds.	"	100 "	do.	*0	0	7							
2507	1 in. x 6 yds.	"	100 pkts.	packet	0	1	8							
2508	Bandages, Calico, Triangular, in packets of 6 each	U.K. & Vic.	100 pkts.	packet	0	1	8	Hicks, Atkinson & Sons Pty. Ltd.						
2509	Basins, Enamelled, 9 in.	Nil	each	} Nil						
2510	" " Kidney, 6" .. ..	..	Nil	do.	..	..	..				
2511	" " " 5" .. ..	..	Nil	do.	..	..	..				
2512	Boric Dusters 1-oz. .. ..	..	Nil	dozen	..	..	..				
2512A	Bottles—	..	24 doz.	do.	} Felton, Grimwade & Duerdins Ltd.						
2513	2-drin. .. ..	..	24 "	do.	..	..	..				
2514	1-oz. (angular), poison .. ..	..	60 "	do.	..	..	..				
2515	1-oz. (square), clear glass	Vict.	12 "	do.	0	1	4							
2516	2-oz. (square), clear glass	12 "	do.	} Nil						
2517	4-oz. (flat) .. ..	..	12 "	do.	..	..	..				
2518	8-oz. (flat)	36 "	do.	} Nil						
2519	Brushes, Camel Hair (Swan) .. ..	..	36 "	do.	..	..	..				
2520	Chloroform, 2-oz. bottles, hermetically sealed	..	Nil	bottle	} Nil						
2521	Collodion (bulk) .. ..	..	3 lb.	lb.	..	..	..				
2522	Chloride of Lime	Nil	do.	} H. Francis & Co.						
2523	Diarrhoea Mixture (1-lb. bottle)	Vict.	10 "	do.	0	3	0							
2524	Embrocation, ELLIMAN'S	U.K.	3 "	do.	*0	8	4	Felton, Grimwade & Duerdins Ltd.						
2525	Eye Droppers	2 doz.	dozen	} Nil						
2526	Eye-shades (celluloid) Left .. ..	..	12	each	..	..	..				
2527	" " " Right .. ..	..	12	do.	..	..	..				
2528	Eye Baths, Glass .. ..	..	1 doz.	dozen	..	..	..				
2529	Forceps, Artery	3 pairs	pair	} Nil						
2530	" Splinter .. ..	..	24 "	do.	..	..	..				

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
AMBULANCE MATERIAL—continued.						
2529	Gauze, Plain (Butter Cloth)	3,000 yds.	dozen yards	..	} Nil
2530	„ compressed (in 1-oz. packets) ..	..	1 gross	dozen pkts.	..
2531	Glass, Medicine, 2-oz. each	Vict.	2 doz.	each	0 0 4	} Felton, Grimwade & Duerdins Ltd.
2532	Ginger, Tincture of (bulk), B.P. ..	..	10 lb.	lb.	..
2533	Glycerine	Vict.	3 „	do.	0 1 9	} Felton, Grimwade & Duerdins Ltd.
2534	Iodine Crystals .. ..	..	3 „	do.	..
2535	Jaconette	5 yds.	yard	..	} Nil
Jars, Screw-top—						
2536	1-lb., square	Vict.	1 gross	dozen	0 2 9	} Felton, Grimwade & Duerdins Ltd.
2537	½-lb., square	„	1 „	do.	0 2 2	
2538	Jars, Mason	Nil	do.	..	} Nil
2539	Lint, 1-oz. packet, plain .. ..	..	1 gross	dozen pkts.	..
Lint—						
2540	1-lb. packets, plain	U.K.	100 lb.	lb.	*0 2 0	} Felton, Grimwade & Duerdins Ltd.
2541	1-lb. packets, borated	„	12 „	do.	*0 1 5	
2542	Lysol, 1-lb. bottles	Vict.	30 „	lb.	0 1 3	
2543	Magnesia Sulphate .. ..	..	10 „	do.	..
2544	Mugs, Enamelled, ½ pint, brand V.R. over AMB	Nil	dozen	..	} Nil
2545	Merc. Pot. Iod. Tabs, 25 in bottle (gr. 1.75) ..	..	Nil	bottle	..
2546	Methylated Spirits (Pure)	Vict.	16 gals.	gallon	0 4 9	} Felton, Grimwade & Duerdins Ltd.
2547	Needles, Surgeons', assorted packets, 6 in packet, No. 9, half curved ..	..	5 doz. pkts.	packet	..
2548	Oil, Olive (in 1-gallon tins)	5 lb.	lb.	..	} Nil
2549	„ Carbolic (bulk) .. ..	..	Nil	do.	..
2550	„ Castor, pure (bulk) .. ..	..	3 „	do.	..
2551	Ointment, Boric (1-lb. pots) .. ..	..	3 „	do.	..
2552	Ointment, Zinc (in 1-lb. pots) .. ..	..	1 „	do.	..
2553	Peroxide of Hydrogen (bulk), 1-gal. bottles ..	Vict.	30 „	gallon of 10 lb.	0 7 0	
Plaster, "Z.O."—						
2554	1 in. x 1 yd.	5 gross	dozen	..	} Nil
2555	1 in. x 10 yds. .. ..	..	10 doz.	do.	..
2556	2 in. x 10 yds. .. ..	..	5 „	do.	..
2557	Potash, Ferromanganate of (bulk)	3 „	lb.	..	} Nil
2558	Pins, Safety (12 on card) .. ..	..	3 gross	dozen cards	..
2559	Sal Volatile (bulk)	Vict.	25 lb.	16 fl. ozs.	0 5 9	} Felton, Grimwade & Duerdins Ltd.
2560	Scalpels .. ..	..	Nil	pair	..
2561	Scissors, Surgeons', 5-in.	12 doz.	dozen	..	} Nil
2562	Soda, Bi-Carb. .. ..	..	Nil	lb.	..
2563	Silk, Assorted, Cards	Nil	dozen	..	} Nil
2564	Silk, Oil, 45in. wide .. ..	..	3 yds.	yard	..
2563	Silk Cards, Assorted .. ..	..	Nil	dozen	..
2564	„ Oiled, 45 in. wide .. ..	..	3 yds.	yard	..
2565	Soap, Carbolic, bars	Vict.	8 lb.	lb.	0 1 0	
2566	Snake-bite Antidote, Lauder Brunton's (metal tubes) ..	..	5 doz. tubes	tube	..
2567	Stalls, Finger	5 doz.	gross	..	} Nil
2568	Sulph. Soda .. ..	..	10 lb.	lb.	..
Stoppers (red rubber), Soft—						
2569	No. 2	3 gross	gross	..	} Nil
2570	No. 3 .. ..	..	3 „	do.	..
2571	No. 4 .. ..	..	5 „	do.	..
2572	No. 5 .. ..	..	3 „	do.	..
2573	No. 6 .. ..	..	3 „	do.	..
2574	Vaseline, 5-lb. tins .. ..	..	10 lb.	lb.	..

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
AMBULANCE MATERIAL—continued.						
2575	Wool, Surgeons', plain— 1-oz. cartons	U.K.	36 doz.	dozen	*0 1 6	Hicks, Atkinson & Sons Pty. Ltd.
2576	4-oz. " " " " " " " "	.. .. .	5 "	do.	*0 4 6
2577	1-lb. " " " " " " " "	U.K.	400 lbs.	lb.	*0 1 1	
2578	Cocaine, 1 per cent., in 1-oz. bottles	Nil	bot.	..	} Nil
2579	Cocaine Chlorotone .. .. .	.. .. .	Nil	"	..
2580	Calamine Lotion .. .. .	.. .. .	Nil	lb.	..
2581	Ethyl Chloride .. .. .	.. .. .	Nil	"	..
2582	Esserine Sulph., 5 per cent., 1 oz. bottles	.. .. .	Nil	"	..
2583	Homatropine and Cocaine, 2 per cent., Mur., in Aqua Chlorotone, in 1-oz. bottles	.. .. .	Nil	"	..
2584	Pulv. Soda Pot. Tart. .. .. .	.. .. .	Nil	"	..
2585	Red Lotion, 5 per cent. .. .. .	.. .. .	Nil	"	..
2586	Tubes, Test, 5" x 3/4" .. .. .	.. .. .	Nil	doz.	..
2587	Ung. Hydrarg. B.P. .. .. .	.. .. .	Nil	lb.	..
2588	Electric Bulb for Ophthalmoscope	.. .. .	Nil	each	..
2589	} Nil					
to						
2599						

TELEGRAPH AND TELEPHONE MATERIAL.

As regards Item No. 2654, telegraph pins of blue gum, mahogany, yellow stringybark, or blackwood timber may be offered, but the Tenderer shall indicate the proportion of each that he offers to supply.

SPECIFICATION FOR TELEPHONE RECEIVER CASES AND CAPS.—Item No. 2602.

The drawing referred to in this Contract is V.R. F. 2711.
The case and cap shall be in accordance with the drawing referred to, and this drawing shall form part of this Specification.

The interior surfaces shall be smooth and, where shown on the drawing, surfaces shall be machined.

The brass shells of case and cap shall be evenly coated with ebonite or suitable tough, black insulating compound, of a thickness in accordance with the drawing, and the outside surfaces shall be polished.

The Receiving Officer shall have the right to measure any number of receiver cases delivered at any one time.

SPECIFICATION FOR DRY CELLS.—Item No. 2603.

The cells are required for light, intermittent service, such as telephone operation, bell ringing and similar work.

The cells shall be approximately 2 1/4 inches in diameter by 6 inches long and shall be fitted with two screwed brass terminals fixed in an approved manner to the electrodes.

The Tenderer must submit with his tender two sample cells.

The sample cells or any cells delivered by the Contractor may be tested in the following manner:—

Cells will be discharged at a constant current of 20 milliamperes for 6 hours per day and 5 days per week, until the voltage of the cells on open circuit falls below 1 volt or the internal resistance (measured by approved method) exceeds 2 ohms.

At this rate of discharge the capacity of the cells must not be less than 35 watt hours.

Any of the cells delivered may be subjected to the following further tests:—

(a) The open circuit voltage will be measured on a voltmeter of approved pattern having a resistance of not less than 100 ohms. The voltage measured in this way shall not be less than 1.45 in the case of a new cell.

(b) The current output at the expiration of one minute will be measured through a resistance of 3 ohms, including the resistance of the meter. It shall not be less than 450 milliamperes in the case of a new cell.

The readings of current and voltage after the cells have been stored for two years shall not fall more than 20 per cent. below guarantees for new cells.

Should five per cent. of the cells delivered fail to comply with the requirements of the Specification or with the guarantees as to voltages and current referred to above, the whole consignment may be rejected.

The Cells shall be branded "The property of the Victorian Railways Commissioners," and method of branding to be adopted shall be stated by the tenderer in the tender.

The Corporation undertakes to order from the Contractor during the contract period at least the full estimated requirements, provided the Cells supplied are in accordance with this specification, and satisfactory service is rendered by the contractor.

SPECIFICATION FOR No. 2 POROUS POTS.—Item No. 2620.

Carbon plate shall be of the best carbon and shall reach the bottom of pot.

Brass terminal shall be fixed to top of carbon in approved manner so as not to become loose or detached in service.

Contents of cell shall be not less than 350 grams and to consist of equal parts of manganese dioxide and crushed carbon.

Particles shall be of a uniform size and intimately mixed.

The tops of the porous pots shall be sealed up in the usual manner with best pitch to a thickness of 1/8 inch and perforated by a tube to allow the escape of gases generated in the cell.

The tops of the cells complete (excepting only the terminal) shall be dipped into a mixture of paraffin wax and ozokerite to within half an inch below the top of the porous pot.

Maker's name shall be branded on porous pot.

Tenderers shall submit with their tenders (2) sample pots for testing purposes.

Pots shall be sufficiently porous to pass the following tests:—Pots shall be filled with water to a depth of 4 1/4 inches and water maintained at this level for 24 hours with suitable precautions against evaporation. At the end of this period not less than 50 cubic centimeters of water shall have passed through the pot.

Alternative tenders will be considered for positive elements of the air depolarizing type and if satisfactory these may be accepted. They shall comply with above Specification in so far as it applies.

MOUTHPIECES.—Item No. 2612.

All mouthpieces shall be of the metal thread type.

The British General Electric Co. Ltd. shall be allowed time for importation to meet initial orders.

* Plus ruling rate of T.T. Exchange on date of delivery on 80 per cent.

As regards Item No. 2621, plus T.T. rate between London and Australia on the date of delivery on the rate of 1s. per carbon.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
TELEGRAPH AND TELEPHONE MATERIAL—continued.								
†2600	Bells, Extension, Magneto type, mounted— 2,500 ohms	N.S.W. (partly)	12	each	1	6	0	C. R. Foster
†2601	1,000 ohms		3	do.				Nil
2602	Cases and Caps for Bell Type Receivers, brass, to Specification and Drawing, F.2711.	U.K.	200	do.	*0	7	5	C. R. Foster
†2603	Cells, Dry, to Specification, to be branded "The property of the Victorian Railways Commissioners"	Victoria (partly)	8,000	do.	0	1	6	Widdis Diamond Dry Cells Pty. Ltd.
*2604	Clips, Universal, Insulated, Test		45 pairs	pair				Nil
*2605	Condensers, 2 M.F., approx. 4½" x 2" x ¾" Cords—	U.K.	50	each	*0	3	2	Automatic Téléphones Ltd.
†2606	Desk, Telephone, 3 conductor; Auto., 4' 6" long	"	12	do.	*0	2	3	C. R. Foster
†2607	Receiver, 2-conductor,	"	100	do.	*0	1	2	British General Elec. Co. Ltd.
†2608	" for Auto. Coy's. Table Telephones, 2' 9" long	"	50	do.	*0	1	7½	
†2609	Switchboard, 5' long, 3-conductor, to fit Kellog plugs		25	do.				Nil
†2610	Switchboard, 4' 6" long, 2-conductor, Red		28	do.				
†2611	" 4' 6" long, 2-conductor, White		20	do.				
*2612	Mouthpieces, Metal Thread for W.E. Tele- phones	U.K.	50	do.	*0	6	9	C. R. Foster
	Pins, Queensland, Galvanized, to Drawing, No. F. 1465—							
†2613	Large, No. 3	Victoria	3,000	each	0	0	95	McPherson's Pty. Ltd.
†2614	Small, No. 4	"	500	do.	0	0	95	
†2615	Pins, Telegraph; Spotted Gum, Timber, to Drawing IF. 2459, amended	"	3,000	1,000	4	5	0	Chief Mechanical Engineer
*2616	Pins; Insulator; Galvanized, with Pat. B, Lead Head, Goose Neck, ½"	"	400	each	0	0	15	McPherson's Pty. Ltd.
	Plugs—							
†2617	3-Conductor "Kellog"		25	do.				Nil
†2618	2-Conductor "Kellog"		50	do.				
†2619	2-Conductor W.E.	U.K.	36	do.	*0	2	3	C. R. Foster
†2620	Pots, Porous, Leclanche, to Specification			do.				Nil
†2621	Carbons, A.D. No. 245	Victoria (partly)	600	do.	*0	1	9		McKenzie & Holland (Aust.) Pty. Ltd.
†2622	Receivers, Polarized Bell Type Steel, Silver	U.K.	50	do.	*0	12	3	C. R. Foster
†2623	1½"		9 bars	dozen bars				Nil
†2624	1"		60 "	do.				
†2625	¾"		28 "	do.				
	Telephones—							
†2626	Table type Magneto		25	each				Nil
†2627	" Automatic		50	do.				
2628	2682—Nil.							

ENGRAVING PERIODICAL TICKETS.

The tickets for engraving will be delivered to the Contractor at the office of the Auditor of Revenue in the Spencer Street Railway Building, and when engraved, they shall be delivered by the Contractor to the Auditor of Revenue. In the event of any tickets being spoiled or damaged whilst in the possession of the Contractor the value as assessed by the Comptroller of Stores shall be reimbursed to the Corporation by the Contractor.

In addition to the deposit lodged as security for the due performance of the Contract, the successful Tenderer shall lodge a further deposit of £5 as security for the safe return of the Gold and Silver Tickets delivered to him for engraving.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ENGRAVING PERIODICAL TICKETS— <i>continued.</i>						
2683	Engravings (comprising refilling of the existing words and figures on tickets furnished by the Corporation, and engraving thereon, such other words and figures as may be ordered)	Victoria	1100	Engraving	0 1 8	Harold A. Jones
2684 to 2685	Nil.					

ACETYLENE, CARBONIC ACID GAS, AND OXYGEN:

ACETYLENE.

The service comprises the supply and delivery as ordered in the manner herein specified in steel cylinders; where directed at Flinders-street Station or elsewhere, of purified compressed Acetylene dissolved in acetone.

The Acetylene must be pure and dry.

The Acetylene shall contain not more than .05 per cent. Phosphine.

Acetone must be genuine, free from all impurities, and when fully charged the quantity of acetone must be such that it does not completely fill the voids of the porous substance in the cylinder at a temperature of 150° Fahrenheit.

The Acetylene will be submitted to the following test. Cylinders for testing may be selected from each delivery :—

When the Acetylene is played for 40 seconds on a piece of Blotting-paper saturated with a 5 per cent. solution of silver nitrate in water, the Blotting-paper shall not discolour.

The rate inserted for Acetylene supplied in the Departmental cylinders shall include the maintenance of the cylinder valves, also re-acetoning of cylinders as required. The bulk of the Acetylene under Items Nos. 2686 and 2687 shall be supplied in cylinders containing six (6) kilogrammes of Acetylene; but a small proportion of small cylinders may be used.

The weight of the cylinder, valve, and acetone must be shown separately on each cylinder.

The empty cylinders will be returned to Contractor at Spencer-street or Flinders-street Station.

CARBONIC ACID GAS.

The empty Carbonic Acid Gas cylinders will be returned to the Contractor at the Ice Works, Spencer-street Station Yard, or Metropolitan Receiving Depot. The Contractors shall have the right to test before refilling with Carbonic Acid Gas any cylinders the property of the Corporation that have not been previously tested for a period of two years, and the cost of such test, at 3s. 6d. per cylinder, will be borne by the Corporation.

OXYGEN.

The Oxygen shall consist of gas compressed in cylinders to a pressure of not less than 120 atmospheres.

The Compressed Oxygen Gas shall be supplied in cylinders containing six (6), twenty (20), forty (40), one hundred (100), or two hundred (200) cubic feet as ordered.

Oxygen taken from such cylinders comprised in each and every delivery, as the Comptroller of Stores may select, shall, when tested, fulfil the foregoing requirements.

Samples of Oxygen taken from such cylinders comprised in each and every delivery, as the Comptroller of Stores may select, shall, when subjected to analysis, contain not less than 98 per centum of oxygen.

As regards Items Nos. 2686 to 2689A, provided satisfactory service is rendered the business should be equally divided, and orders should be allotted as under :—

Item No. 2686.—Equally divided.

Item No. 2687.—Requirements of Newport Workshops and Ballarat North Workshops shall be ordered on Gardner, Waern & Co., and the balance of requirements on Allen-Liversidge (Aust.) Ltd.

Items Nos. 2688 and 2689.—Shall be ordered on Allen-Liversidge (Aust.) Ltd.

Both Contractors shall furnish quarterly a statement of Residual Gas obtained from cylinders returned and credit the Department with the value of same.

As regards Items Nos. 2691 and 2691A, provided satisfactory service is rendered, the business should be divided in the following proportions, viz. :—75 per cent. to the Australian Oxygen Co., and 25 per cent. to the Oxygen Service Co.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
ACETYLENE, CARBONIC ACID GAS, AND OXYGEN—continued.								
As regards cylinders of Australian Oxygen Co., if any cylinders be not returned within six months, and if claim be made, a deposit will be lodged by the Corporation, which shall be refunded by the Contractor on the return of such cylinders to the Contractor in good order and condition, and that in the event of any cylinders or valves being damaged whilst in the possession of the Corporation, the Corporation will bear the cost of any repairs or replacements of such damage provided the charge is reasonable.								
2686	Acetylene, Compressed, purified— In Departmental Cylinders	Victoria	430 lb.	lb.	*0	2	1	Allen-Liversidge (Aust.) Ltd.
2686A	In Departmental Cylinders	"		do.	*0	2	1	Gardner, Waern & Co. Pty. Ltd.
2687	In Cylinders supplied by the Contractor ..	"	63,000 „	do.	*0	2	2	Allen-Liversidge (Aust.) Ltd.
2687A	In Cylinders supplied by the Contractor ..	"		do.	*0	2	2	Gardner, Waern & Co. Pty. Ltd.
2688	Acetylene, in Cylinders of 100 c. ft. capacity, suitable for Departmental flares in use at Overhead Depots	"	450 „	do.	*0	2	2	Allen-Liversidge (Aust.) Ltd.
2688A	Acetylene, in Cylinders of 100 c. ft. capacity, suitable for Departmental flares in use at Overhead Depots	"		do.	*0	2	2	Gardner, Waern & Co. Pty. Ltd.
2689	Acetylene, in Cylinders of 50 c. ft. capacity, suitable for Departmental flares in use at Overhead Depots	"	700 „	do.	*0	2	2	Allen-Liversidge (Aust.) Ltd.
2689A	Acetylene, in Cylinders of 50 c. ft. capacity, suitable for Departmental flares in use at Overhead Depots	"		do.	*0	2	2	Gardner, Waern & Co. Pty. Ltd.
2690	Gas, Carbonic Acid, in steel cylinders, containing 50 lb. of gas each	"	11,000 „	do.	0	0	4	Australian Oxygen & Indust. Gases Pty. Ltd.
2691	Oxygen, not less than 98 per cent (99 per cent.)	"	3,000,000 c. ft.	100 c. ft.	0	3	3	
2691A	Oxygen, not less than 98 per cent. (99 per cent.)	"		do.	0	3	8	Oxygen Service & Manfg. Co. Pty. Ltd.
2692 to 2693	Nil							

* Less 2½ per cent.

IRON, ALLOY, PISTON CASTINGS.

FOR INTERNAL COMBUSTION ENGINES.

The Contractor shall, during the currency of the Contract, furnish the Comptroller of Stores with the address or addresses of the place or places at which the Castings are being manufactured, and the Comptroller of Stores or any person appointed by him from time to time shall at all times during business hours have free access to such place or places, and shall be afforded every facility for inspecting the Castings ordered while in process of manufacture.

The Castings are to be clean, sharp, free from surface scale, shell, cold shuts, blow holes, honeycomb, cinder, or any other imperfections, and are to be sound in every respect, and thoroughly close in grain.

The whole of the patterns and coreboxes, &c., shall be provided by and at the sole expense of the Contractor, and the cost of the same shall be deemed to be included in the rate set opposite to each item.

Sample Pistons.—Samples of finished pistons may be inspected on application to the Water Supply Engineer, Room 204, Railway Offices, Spencer-street, Melbourne.

Inspection and Rejection.—Castings are liable to be rejected on delivery, or at any time during the process of machining, and any such castings rejected on account of faulty material or inequalities in walls of casting, &c., shall be replaced by the Contractor by another casting, free of charge.

Quantities.—The piston castings shall be ordered by the Corporation in lots of not less than—

Item 2694	.. .. .	50 No.
Item 2695	.. .. .	20 No.
Item 2696	.. .. .	20 No.
Item 2697	.. .. .	25 No.

Finish.—The castings shall be free from all defects and finished in the annealed and sandblasted condition.

IRON, ALLOY, PISTON CASTINGS—*continued.*

Delivery.—Delivery will be taken at the Metropolitan Receiving Depot, Spencer-street, Melbourne.

- (a) The approximate weight of piston casting for Item 2694 is lb.
 - The approximate weight of piston casting for Item 2695 is lb.
 - The approximate weight of piston casting for Item 2696 is lb.
 - The approximate weight of piston casting for Item 2697 is lb.
 - (b) The approximate weight of piston when finished to nominal diameter, and otherwise completely machined—
- | | | | | | | | | | |
|-----------|----|----|----|----|----|----|----|----|-----|
| Item 2694 | .. | .. | .. | .. | .. | .. | .. | .. | lb. |
| Item 2695 | .. | .. | .. | .. | .. | .. | .. | .. | lb. |
| Item 2696 | .. | .. | .. | .. | .. | .. | .. | .. | lb. |
| Item 2697 | .. | .. | .. | .. | .. | .. | .. | .. | lb. |

The piston castings shall be sandblasted and centred.

IRON, ALLOY, PISTON CASTINGS.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
2694	Castings— K. S. Type piston casting app. 3¾" diam. x 4½" skirt for 2-cycle water cooled engine	Vict.	150	each	0	5	6	C.B.D. Piston Co.
2695	K. Type piston casting, app. 4½" diam. x 6" skirt for 2-cycle water cooled engine	"	40	do.	0	9	0	
2696	Sheffield 40B Type piston casting app. 4½" diam. x 5" skirt for 4-cycle twin opposed air cooled engine	"	20	do.	0	7	6	
2697	Inspection Type B. piston casting app. 3¾" diam. x 3" skirt for single cylinder air cooled engine	"	50	do.	0	3	6	

ILLUMINATING, POWER, AND FUEL OILS.

From 1.10.31 to 30.9.32.

(See Appendix "G.")

Excepting where otherwise specified below, 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. 6073, 6074, 6075, and 6077, payment will be made on the actual net weight ascertained by weighing over departmental truck weighbridge or scales.

Motor Spirit delivered from road tanker into rail tanker or into departmental tanks shall be paid for on the basis of measurement ascertained by the Comptroller of Stores or his representative at the place of delivery by the use of a calibrated stick as approved by the Corporation.

Deliveries made at Geelong, Fern Tree Gully, and Warburton shall be paid for on measurement recorded by bowser, and 1d. per gallon service charge for use of bowser charged by the contractor.

As regards Item No. 6053, the rate includes T.T. Exchange at 1 per cent. and for every £1 per cent. that the Commonwealth Government T.T. rate Australia on London on the date of delivery is above £1, there will be an additional charge to the Corporation of 13d. per gallon. The rate is based on New York-London conversion of 4.80 dollars to the £ sterling; any variation shall be to the Corporation's account.

The adjustment shall apply to 80 per cent. of the contract rate, and shall be calculated on the conversion rate intimated by the Commonwealth Bank of Australia as ruling in London on the date of delivery to the Corporation of any such stores as may be ordered under the contract (plus the ruling rate of T.T. Exchange between London and Australia on such date on the amount of the adjustment.)

Delivery will be given ex Overseas Steamer direct into the Metropolitan Receiving Depot for shipments to arrive each month. A reserve stock is held in store in Melbourne, and immediate supplies may be obtained from the Contractor at the contract rate ex store; but provision is to be made for main deliveries to be supplied monthly ex wharf. Wharfage to be arranged by the Corporation where possible and deducted, by allowing time for importation.

As regards Items Nos. 6050, 6054, 6056, 6057A, and 6057AA, if delivery be taken in naked tins an allowance of 8d. per case will be made.

The whole of the rates in this schedule, excepting Items Nos. 6053 and 6073 to 6077, are the lowest wholesale selling prices ruling on the 27th July, 1931, and are subject to all market fluctuations in the Contractors' lowest wholesale selling prices. All deliveries will be invoiced at the lowest wholesale selling price ruling on the actual date of delivery, and Clause 7 of the Conditions of Contract shall not apply.

As regards Kerosene to be supplied in cases by the Commonwealth Oil Refineries Ltd., the contract rates are the lowest wholesale selling prices less 3s. per case of Lamp Kerosene and 2s. 6d. for Power Kerosene. Should there be any alteration in the selling prices of Kerosene, amended rates will be fixed by the Comptroller of Stores.

ILLUMINATING, POWER, AND FUEL OILS—continued.

As regards Item No. 6074, Fuel Oil delivered in 40-gallon drums at Company's Works will be charged ½d. per gallon for filling in drums provided by the Department. Should the Company provide the drums a charge of ½d. per gallon for filling will be made. The Company's drums remain their property, and are returnable free of all charges to them. A deposit of 10s. per drum is charged on these drums, this being credited on return.

As regards Item No. 6075, Fuel Oil in 40-gallon drums delivered in the Metropolitan Area will be subject to a cartage charge of 1s. 8d. per drum for six drums or over. Delivery of drums cannot be given in less than truck loads at Company's Siding.

The rates for Fuel Oil are firm, and Clause 7 of the Conditions of Contract shall be interpreted to include Excise Duty.

As regards Items Nos. 6059A and 6066B, the Texas Co. (A/asia) Ltd. define the Metropolitan Area as follows:—Werribee, Rockbank, Sunbury, Donnybrook, Whittlesea, Hurstbridge, Lilydale, Belgrave, Dandenong, and Frankston.

As regards Item No. 6056A, the Contractor will invoice the drums at 40s. each, which will be credited on return in good order and condition.

As regards Item No. 6071A, the Contractor will invoice the containers at 30s. each, if not returned in good order and condition within a reasonable time.

The rates are all exclusive of Sales Tax.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate:	Name of Contractor.
					£ s. d.	
†6050	Kerosene— Illuminating Oil, Specification N.1; in cases, 2 x 4½ gallon tins, "C.O.R."	Vict. (partly)	116,000 gals.	gallon	0 1 2-04	Commonwealth Oil Refineries Ltd.
†6051	Long Time Burning Oil, Specification N.2, in cases, 2 x 4½ gallon tins	..	1,500 "	do.	..	} Nil
†6052	Long Time Burning Oil, Specification N.2, in 45-gallon containers, delivered at any railway depot within the Metropolitan Area	..	500 "	do.	..	
†6053	300° High Test, Specification N.3, in cases, 2 x 4½ gallon tins	U.S.A.	3,800 "	do.	0 1 4 Plus Exch.	Socony Pty. Ltd.
†6054	For Engine Cleaning purposes, in cases, 2 x 4½ gallon tins, "C.O.R."	Vict. (partly)	14,000 "	do.	0 1 2-04	Commonwealth Oil Refineries Ltd.
†6055	For Lux Lamps, in cases, 2 x 4½ gallon tins, "Pennant"	East Indies	7,300 "	do.	0 1 2-05	Shell Co. of Aust. Ltd.
†6056	Power Fuel for Coulsen or other Kerosene Engines, Specification N.1, in cases, 2 x 4½ gallon tins, "C.O.R."	Vict. (partly)	56,000 "	do.	0 1 2-04	Commonwealth Oil Refineries Ltd.
	Motor Spirit, for use in inspection of other cars, Specification N.4—					
†6057	1st Grade, in cases, 2 x 4 gallon tins, "Shell"	East Indies		do.	*0 2 4½	Shell Co. of Aust. Ltd.
†6057AA	1st Grade, in cases, 2 x 4 gallon tins, "C.O.R. Yellow Label"	Vict. (partly)		do.	*0 2 4½	} Commonwealth Oil Refineries Ltd.
†6057A	2nd Grade, in cases, 2 x 4 gallon tins, "C.O.R. No. 2 Red Label"	Vict. (partly)		do.	*0 2 2½	
†6057B	2nd Grade, in cases, 2 x 4 gallon tins, "Shell Imperial"	East Indies		do.	*0 2 2½	Shell Co. of Aust. Ltd.
†6058	1st Grade, delivered in bulk by road tanker into departmental tanks at any railway depot within the Metropolitan Area, "C.O.R. Yellow Label"	Vict. (partly)		do.	*0 1 10½	Commonwealth Oil Refineries Ltd.
	2nd Grade, delivered in bulk by road tanker into departmental tanks at any railway depot within the Metropolitan Area—					
†6058A	"Voco"	U.S.A.		do.	*0 1 8½	Vacuum Oil Co. Pty. Ltd.
†6058B	"Shell-Imperial"	East Indies		do.	*0 1 8½	Shell Co. of Aust. Ltd.
†6058C	"C.O.R. No. 2 Red Label"	Vict. (partly)	See next page:	do.	*0 1 8½	} Commonwealth Oil Refineries Ltd.
†6059	1st Grade, delivered in bulk by road tanker into departmental drums at any railway depot within the Metropolitan Area, "C.O.R. Yellow Label"	..		do.	*0 1 10½	

*Less 5 per cent discount.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
ILLUMINATING, POWER, AND FUEL OILS— <i>continued.</i>								
	2nd Grade, delivered in bulk by road tanker into drums at any railway depot within the Metropolitan Area—							
†6059A	“Texaco 400 Motor Spirit” ..	U.S.A.		gallon	*0	1	8½	Texas Co. (A/asia) Ltd.
†6059B	“Atlantic”	”		do.	*0	1	8½	Atlantic Union Oil Co. Ltd.
†6059C	“Shell-Imperial”	East Indies		do.	*0	1	8½	Shell Co. of Aust. Ltd.
†6059D	“C.O.R. No. 2 Red Label” ..	Vict. (partly)		do.	*0	1	8½	Commonwealth Oil Refineries Ltd.
†6060	1st Grade, in bulk, delivered by road tanker into the Department's underground tank at Echuca Railway Station, “C.O.R. Yellow Label”	”		do.	*0	2	1¼	
†6060A	2nd Grade, in bulk, delivered by road tanker into the Department's underground tank at Echuca Railway Station, “Texaco 400 Motor Spirit”	U.S.A.		do.	*0	1	11¼	Texas Co. (A/asia) Ltd.
†6060B	2nd Grade, in bulk, delivered by road tanker into the Department's underground tank at Echuca Railway Station, “C.O.R. Red Label”	Vict. (partly)		do.	*0	1	11¼	Commonwealth Oil Refineries Ltd.
†6061	1st Grade, delivered by road tanker into the Department's underground tank at Benalla Railway Station “C.O.R. Yellow Label”	”		do.	*0	2	1¼	
†6061A	2nd Grade, delivered by road tanker into the Department's underground tank at Benalla Railway Station, “Texaco 400 Motor Spirit”	U.S.A.		do.	*0	1	11¼	Texas Co. (A/asia) Ltd.
†6061B	2nd Grade, delivered by road tanker into the Department's underground tank at Benalla Railway Station, “C.O.R. Red Label”	Vict. (partly)		do.	*0	1	11¼	Commonwealth Oil Refineries Ltd.
†6062	1st Grade, delivered by road tanker into the Department's underground tank at Maryborough Railway Station	..		do.	..			Nil
6062A	2nd Grade, delivered by road tanker into the Department's underground tank at Maryborough Railway Station	..		do.	..			
6063	1st Grade, delivered by road tanker into the Department's underground tank at Ouyen Railway Station	..		do.	..			
6063A	2nd Grade, delivered by road tanker into the Department's underground tank at Ouyen Railway Station	..		do.	..			
6064	1st Grade, delivered in drums into the Department's underground tank at Numurkah Railway Station, “C.O.R. Yellow Label”	Vict. (partly)	300,000 gallons	do.	*0	2	1½	Commonwealth Oil Refineries Ltd.
†6064A	2nd Grade, delivered by road tanker into the Department's underground tank at Numurkah Railway Station “Atlantic”	U.S.A.		do.	*0	1	11¼	Atlantic Union Oil Co. Ltd.
†6064B	2nd Grade, delivered in drums into the Department's underground tank at Numurkah Railway Station, “C.O.R. Red Label”	Vict. (partly)		do.	*0	1	11¼	Commonwealth Oil Refineries Ltd.
†6065	1st Grade, delivered in drums into the Department's underground tank at Castlemaine Railway Station, “C.O.R. Yellow Label”	”		do.	*0	2	0¾	
†6065A	2nd Grade, delivered by road tanker into the Department's underground tank at Castlemaine Railway Station, “Atlantic”	U.S.A.		do.	*0	1	10¾	Atlantic Union Oil Co. Ltd.
†6065B	2nd Grade, delivered in drums into the Department's underground tank at Castlemaine Railway Station, “C.O.R. Red Label”	Vict. (partly)		do.	*0	1	10¾	Commonwealth Oil Refineries Ltd.

* Less 5% discount.

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

ILLUMINATING, POWER, AND FUEL OILS—continued.

†6066	Motor Spirit, for use in Inspection or other cars, Specification N.4—continued. 1st Grade, in 40-gallon drums, delivered at any railway depot within the Metropolitan Area, "C.O.R. Yellow Label" 2nd Grade, in 40-gallon drums, delivered at any railway depot within the Metropolitan Area—	Vict. (partly)		gallon	*0	1	10½	Commonwealth Oil Refineries Ltd.
†6066A	"Voco"	U.S.A.	(See previous page.)	do.	*0	1	8½	Vacuum Oil Co. Pty. Ltd.
†6066B	"Texaco 400 Motor Spirit"	"		do.	*0	1	8½	Texas Co. (A/asia) Ltd.
†6066C	"Atlantic"	"		do.	*0	1	8½	Atlantic Union Oil Co. Ltd.
†6066D	"Shell-Imperial"	East Indies		do.	*0	1	8½	Shell Co. of Aust. Ltd.
†6066E	"C.O.R. No. 2 Red Label"	Vict. (partly)		do.	*0	1	8½	Commonwealth Oil Refineries Ltd.
†6067	1st Grade, in 40-gallon drums, delivered into railway trucks at Contractor's works at Newport, "Shell"	East Indies		do.	*0	1	10½	Shell Co. of Aust. Ltd.
†6067 AA	1st Grade, in 40-gallon drums, delivered into railway trucks at Contractor's works at Laverton, "C.O.R. Yellow Label" 2nd Grade, in 40-gallon drums, delivered into railway trucks at Contractor's works—	Vict. (partly)		do.	*0	1	10½	Commonwealth Oil Refineries Ltd.
†6067A	At Yarraville, "Voco"	U.S.A.		do.	*0	1	8½	Vacuum Oil Co. Pty. Ltd.
†6067B	At Newport, "Texaco 400 Motor Spirit"	"		do.	*0	1	8½	Texas Co. (A/asia) Ltd.
†6067C	At Spotswood, "Atlantic"	"		do.	*0	1	8½	Atlantic Union Oil Co. Ltd.
†6067D	At Newport, "Shell-Imperial"	East Indies		do.	*0	1	8½	Shell Co. of Aust. Ltd.
†6067E	At Laverton, "C.O.R. No. 2 Red Label"	Vict. (partly)		do.	*0	1	8½	Commonwealth Oil Refineries Ltd.
6068	1st Grade, in 40-gallon drums, delivered f.o.r. at any railway station outside the Metropolitan Area	..		do.	..	..	..	} Nil
6068A	2nd Grade, in 40-gallon drums, delivered f.o.r. at any railway station outside the Metropolitan Area	..		do.	..	..	..
6069	1st Grade, in 25-gallon drums, delivered f.o.r. at any railway station outside the Metropolitan Area	..		do.	..	..	..
6069A	2nd Grade, in 25-gallon drums, delivered f.o.r. at any railway station outside the Metropolitan Area	..		do.	..	..	..
†6070	Benzoline, in 8-gallon non-returnable drums, "Shell"	East Indies	} 1,300 gals.	do.	*0	3	1½	} Shell Co. of Aust. Ltd.
†6071	Benzoline, in 45-gallon departmental drums, "Shell"	"		do.	*0	2	6	
†6071 A	Benzoline, in 45-gallon Contractor's drums, "Shell"	"		do.	*0	2	7	
†6072	Benzine, Heavy, for Tarpaulin Dressing, in cases, 2 x 4 gallon tins Fuel Oil (Petroleum Oil Product), Specification O.I., "C.O.R."—(See heading for extra charges.)	..	..	..	..	..	..	Nil
†6073	Delivered in departmental railway tank trucks at Company's Siding, Newport, or Port Melbourne	Vict. (partly)	} 2,800 tons	ton	3	15	0	} Commonwealth Oil Refineries Ltd.
†6074	In 40-gallon drums, in trucks at Contractor's works at Company's Siding, Newport, or Port Melbourne	"		do.	3	15	0		Plus filling charge.

* Less 5% discount.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.			Name of Contractor.
					£	s.	d.	
ILLUMINATING, POWER, AND FUEL OILS—continued.								
6075	Fuel Oil (Petroleum Oil Product), Specification O.1— <i>continued</i> . In 40-gallon drums, delivered by Contractor in the Metropolitan Area	Vict. (partly)	2,800 tons	ton	3	15	0	Commonwealth Oil Refineries Ltd.
6076	Delivered by Contractor into departmental tank at Railway Building, Spencer-street, in approx. 4-ton loads	"	112 "	do.	3	15	0	
6077	Oil, for the manufacture of Pintsch Gas, delivered in departmental railway tank trucks, Specification O.1, at Company's Siding, Newport. or Port Melbourne	"	80,000 gals.	do.	3	15	0	

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.	..	580	..	580
Pour Point, degrees Fahr.	50	..	50	..
Saponifiable Matter, per cent.	6	..	8	..
Carbon Residue	3	..	3	..

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

Specific Gravity, 15.5° C./15.0° C.,	Volatility* at 400° F.,
Viscosity at 70° F., dynes per sq. cm.,	" * at 500° F.,
" at 100° F., dynes per sq. cm.,	" * at 600° F.,
" 140° F. " " "	Precipitation Number or Gasolene Test
" 212° F. " " "	after heating one hour at 600° F.,
Fire Point,	Carbon Residue,
Pour Point,	

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.

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 Fahr.	..	..	..
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."

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

APPENDIX "A"—continued.

LOCOMOTIVE BEARING OIL.—SPECIFICATION L.2.—Items 3 to 4a.

Scope.—This Specification covers the grade of Petroleum Oil required for use on the Bearing 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."

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

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.

APPENDIX "A"—continued.

CAR AND WAGON OIL (BLACK OIL)—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. " " "	..	..	..	.....
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."

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

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.

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."

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 or 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.

APPENDIX "B"—continued.

MOTOR ENGINE OILS, ETC.—continued.

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 17k.—The Tenderer shall supply the following information regarding the Oil he tenders to supply :—

Specific Gravity, 15·5° C./15·0° C. . . . .	..	..	..
Viscosity at j 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. . . . .	..	..	..

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.

APPENDIX "B"—continued.

KEROSENE ENGINE OILS—continued.

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.

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	0·65	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,
Viscosity at 70° F., dynes per sq. cm.		Pour Point,
" 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."

APPENDIX "B"—continued.

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

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,
Viscosity at 100° F., dynes per sq. cm.,		Volatility,
" 140° F. " " " "		Ash,
" 212° F. " " " "		Organic Acidity,
Fire Point,		Demulsibility,

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. 25 to 26A.—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	..	..
Volatility, 8 hours at 212° F., per cent.	2.0	..	..	..

APPENDIX "B"—continued.

TRANSFORMER AND SWITCH OILS, ETC.—continued.

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,	..	..	..	.....

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
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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."

" 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.

APPENDIX "C"—*continued.*
 GEAR GREASE, ETC.—*continued.*

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

	Soap Content, per cent. approximate.	Ash, per cent.	Melting Point.	
			Soft.	Drop.
			Minimum.	Minimum.
Dark Gear Grease	18	Maximum. 7.0	148°	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. 41A to 43.*

Scope.—This Specification covers the grade of grease required for the lubrication of Road and Rail Motor Chassis parts, 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.

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

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. 2 Cup Grease	15	Maximum. 3.0	—	—
No. 3 Cup Grease	18	2.5	146°	165°
No. 4 Cup Grease	23	3.5	170°	188°
No. 5 Cup Grease	30	3.5	—	195° F.

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 Nos. 2, 3, 4, and 5 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."

APPENDIX "C"—continued.

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:—

	Maximum.
Water	6·5 per cent.
Ash	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.

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 LUBRICATING COMPOUND.—Item No. 47.

This compound shall be suitable for lubricating the open gears on Niles-Bement-Pond Wheel Lathe.

The Tenderer shall supply a sample, and the following analytical figures of the material he tenders:—

- Specific gravity at 60 deg. F.
- Melting point.
- Fire point.
- Viscosity at 210 deg. F.

SPECIFICATION FOR PETROLEUM JELLY.—Item No. 50.

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 15·5° C./15·5° C.

The Tenderer shall supply a complete chemical and physical analysis of the grease or greases tendered for each item.

APPENDIX "D."

BLACK STEEL WIRE.—*Item No. 472.*

The Mild Steel Wire under Item 472 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 $1\frac{1}{2}$ times the thickness of the test piece and the sides are parallel.

The Wire shall be supplied in coils.

SPECIFICATION FOR GALVANIZED STEEL STRANDED WIRE.—*Item No. 473.*

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), (c), and (d). 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 fails under test 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 and not more than 55 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 with each sample not less than three times without there being any signs of a reddish deposit of metallic copper on the wires. Not more than three pieces of wire are to be immersed in the solution at one and the same time.
- (c) 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.
- (d) Any individual wire of the galvanized steel strand shall bear winding round a rod of $\frac{1}{2}$ -inch diameter without the steel wire showing signs of fracture.

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 stranded 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 $15" \times 15" \times \frac{1}{4}"$ thick is required to reinforce each side of the drum, and to which it must be bolted. A 3-in. clearance hole is to be made in both the drum and the plate to take a 3-in. 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, Batman-avenue.

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 7 (b) of this specification.

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

SPECIFICATION FOR GALVANIZED PLAIN FENCING WIRE.—*Item No. 474.*

The wire used in the manufacture of the whole of the above shall be of high-grade steel, uniformly galvanized, free from inequalities, flaws, splints, and other defects, uniformly true to gauge.

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

- (a) *Galvanizing.*—The quality of the galvanizing 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 the number of times specified by the Tenderer with each sample without there being any signs of reddish deposit of metallic copper on the wire.
- (b) The sample pieces of the galvanized wire shall withstand being closely coiled around a wire of its own diameter without the galvanized surface showing signs of cracking or peeling off.

APPENDIX "D"—continued.

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. When these tests are to be carried out, the Contractor will be given 24 hours notice of the intention, 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 galvanized steel fencing wire shall be delivered in coils. Each coil of wire shall be provided with a metal label on which shall be clearly stamped the nett weight of wire in the coil, the length of wire in the coil and the diameter of the wire in decimal parts of an inch. The wire shall be smoothly and uniformly coiled so that the eye of each coil shall not be less than 19 inches or more than 20 inches in diameter.

Delivery.—The galvanized plain steel fencing wire shall be delivered where and as directed at either the General Storehouse, Spotswood, or the Metropolitan Receiving Depot, Spencer-street, Melbourne.

Information to be supplied by Tenderer.—The Tenderer shall furnish with his tender the following information :—

(a) The quality of the galvanizing he guarantees (number of one minute dips) on each of the wires tendered when subjected to the tests as detailed in clause 13 (a) of this specification.

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.....

(b) The British Imperial Standard Wire Gauge (I.S.W.G.) of each wire tendered.

.....
.....
.....

(c) The tensile breaking strength in pounds of each wire tendered.

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.....
.....

(d) The lineal length of each wire in yards per 1 cwt. (112 lb.).

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.....
.....

SPECIFICATION FOR GALVANIZED BARBED WIRE.—Item No. 475.

General Particulars.—The wire used in the manufacture of the above Item shall be of high-grade steel, uniformly galvanized, free from flaws, splits and other defects, and uniformly true to gauge. The Barbs shall be of equal length, well shaped, with sharp points, and shall be securely fixed at regular pitches of 3½ inches.

A tolerance of ¼ inch under and ¼ inch over in 3½ inches is permissible.

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

Galvanizing.—The quality of the galvanizing on the main strand or strands after barbing 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 the number of times specified by the Tenderer 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. No wire will be accepted if the galvanizing shows signs of cracking or peeling off.

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. When these tests are to be carried out, the Contractor will be given 24 hours' notice of the intention, 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 stranded wire shall be delivered on Reels. The net weight and the length of Barbed Wire on the Reel shall be clearly shown on the reel or on suitable metal label attached to the reel.

Delivery.—The galvanized Barbed Wire shall be delivered where and as directed at either the General Storehouse, Spotswood, or the Metropolitan Receiving Depot, Spencer-street, Melbourne.

APPENDIX "D"—continued.

Information to be supplied by Tenderer.—The Tenderer shall furnish with his tender the following information:—

(a) The quality of the galvanizing he guarantees (number of one minute dips) on each wire tendered when subjected to the tests as detailed in clause 19 of this Specification.

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.....

(b) The British Imperial Standard Wire Gauge (I.S.W.G.) of each wire tendered.

.....
.....

(c) The British Imperial Standard Wire Gauge (I.S.W.G.) of the wire used for the Barbs on each of the various Barbed Wires tendered.

.....
.....

(d) The tensile breaking strength in pounds of each single wire used in the manufacture of each Barbed Wire tendered.

.....
.....

(e) The tensile breaking strength in pounds of each grade of Barbed Wire after the Barbs are fixed in position.

.....
.....

(f) The lineal length of each Barbed (finished) Wire in yards per 1 cwt. (112 lb.). A tolerance of 2 lb. under or 2 lb. over is permissible.

.....
.....

(g) The pitch, in inches, of each set of barbs on each of the Barbed Wires tendered.

.....
.....

(h) The number of Barb points in each set of barbs on each of the Barbed Wire tendered.

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.....

(i) The number of wires around which each set of Barbs are secured on each of the Barbed Wires tendered.

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APPENDIX "E."

BENZOL.

SPECIFICATION N.A.—Item 1501.

Scope.—This Specification covers the grade of spirit required for use in Rail Motors.

Manufacture.—The Benzol shall be a pure aromatic hydro-carbon.

Properties and Tests.—The Benzol shall be entirely free from mineral acid, alkali, water, and suspended matter, and in other respects shall comply with the conditions mentioned hereunder:—

Colour.—The Benzol shall be water white.

Distillation.—Ninety-six per cent. (96%) of the Benzol shall distil at the temperature of boiling water; final temperature 250 degrees Fahr. The residue shall not show acid reaction.

Doctor Test.—The doctor test shall be negative.

Sulphur.—The sulphur content shall be as low as possible.

Specific Gravity.—The specific gravity of the Benzol at 60 degrees Fahr. shall be .879-.883.

Freezing Point.—The Benzol shall not freeze at a higher temperature than 20 degrees Fahr.

The Corporation reserves the right to submit deliveries of Benzol to any additional test or tests which it deems necessary.

Sampling.—The samples shall be collected from the first and last discharge of the Benzol from the tank wagon. Intermediate samples from the flow will be selected as required.

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."

Payment.—The payment will be made on gallonage calculated on the net weight in containers after discharge from tank wagon, and the specific gravity ascertained in Victorian Railways Laboratory from samples drawn from each delivery.

Delivery.—The Benzol shall be delivered from the Contractor's tanks into 40-gallon containers at the Metropolitan Receiving Depot. The 40-gallon containers, if the property of the Contractor, shall be returnable.

* Spontaneous ignition will be determined in the V.R. Laboratory Apparatus, designed on lines similar to Professor Moore's Apparatus. See J.S.C.I., XXXVI., 109, 1917.

APPENDIX "F."

VARNISHES.

CARRIAGE VARNISH.—SPECIFICATION D.1.—Items Nos. 1502 and 1503.

The Varnish shall conform to the Tentative Australian Standards Specification for No. 1 Hard Drying Carriage Varnish No. K.14/1927 T., and No. 2 Durable Body Varnish No. K.15/1927 T.

COPAL VARNISH.—SPECIFICATION D.2.—Item No. 1504.

The Varnish shall conform to the Tentative Australian Standards Specification for No. 2 Hard Copal Varnish No. K.14/1927 T.

OAK VARNISH.—SPECIFICATION D.3.—Item No. 1506.

The Varnish shall conform to the Tentative Australian Standards Specification for No. 3 Oak Varnish No. K.14/1927 T.

GOLD SIZE.—SPECIFICATION D.4.—Item No. 1507.

I.—SCOPE.

This Specification covers the varnish known as Japanners' Gold Size or Japan Gold Size.

II.—MANUFACTURE.

The gold size shall be made from the best grades of hard varnish gums, pure linseed oil, and volatile thinners, with suitable driers.

III.—PROPERTIES AND TESTS.

The gold size shall be clear and transparent and free from suspended matter and adulterants. It shall contain no added rosin.

The gold size shall conform to the following requirements:—

The volatile thinner shall consist of Genuine Turpentine or Mineral Turpentine, or a mixture of both.

Drying Test.—Shall set to touch in from 15 to 30 minutes when maintained at 70° F. in dust-free atmosphere.

IV.—SAMPLING AND TESTING.

One unopened package shall be taken at random from each delivery.

The gold size shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Paint Materials."

APPENDIX "F."—*continued.*JAPAN BLACK.—SPECIFICATION D.5.—*Item No. 1508.*

I.—SCOPE.

This Specification covers the varnish known as Japan Black.

II.—MANUFACTURE.

The japan shall be made from pure, best quality asphaltum, pure linseed oil, and volatile thinners, with suitable driers.

III.—PROPERTIES AND TESTS.

The japan shall be free from adulterants, and shall contain no added rosin.

The japan shall conform to the following requirements:—

The volatile thinner shall consist of Genuine Turpentine or Mineral Turpentine, or a mixture of both.

Drying.—Shall set to touch in from 1½ to 2½ hours and shall dry hard in less than 20 hours when maintained at 70° F. in dust-free atmosphere. The film must be perfectly smooth and of full body.

Toughness.—Film on metal must stand rapid bending over a rod 3 mm. (¼ inch) in diameter.

Stoving.—When stoved at 400° F. the japan shall show no signs of discolouration, burning, blistering, or cracking, and the film shall be sufficiently elastic to allow of being bent at right angles without cracking.

When rubbed vigorously with the ball of the finger the film shall show no signs of "Rubbing" or "Dusting."

Working Properties.—The japan must have good brushing, flowing, covering, and levelling properties.

IV.—SAMPLING AND TESTING.

One unopened package shall be taken at random from each delivery.

The japan shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Paint Materials."

LIQUID JAPAN DRIER.—SPECIFICATION D.6.—*Item No. 1509.*

I.—SCOPE.

This Specification covers the Liquid Japan Drier (containing gums) known as Terebine.

II.—MANUFACTURE.

The drier shall be composed of lead, manganese or cobalt, or a mixture of any of these elements combined with a suitable fatty oil, varnish gums, and mineral spirits or turpentine or a mixture of these solvents.

III.—PROPERTIES AND TESTS.

The drier shall be clear and free from suspended matter and sediment.

It shall conform to the following requirements:—

Colour.—When mixed with eight parts by volume of raw linseed oil the resulting mixture shall be no darker than a solution of 6 gm. potassium dichromate in 100 c.c. of pure sulphuric acid of specific gravity 1.84.

The volatile thinner shall consist of Genuine Turpentine or Mineral Turpentine, or a mixture of both.

Mixing with Linseed Oil.—It shall mix with pure raw linseed oil in the proportion of 1 volume of drier to 19 volumes of oil without curdling.

Drying.—When mixed with 19 parts of raw linseed oil and flowed on glass, the film shall dry hard in not more than 18 hours, when maintained at 70° F. in dust-free atmosphere.

Baking.—When flowed on metal and baked for two hours at 100° C. (212° F.) the drier shall leave an elastic film.

IV.—SAMPLING AND TESTING.

One unopened package shall be taken at random from each delivery.

The drier shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Paint Materials."

PAPER VARNISH.—SPECIFICATION D.7.—*Item No. 1510.*

I.—SCOPE.

This Specification covers the spirit varnish known as Paper Varnish, used for varnishing maps and similar purposes.

II.—MANUFACTURE.

The varnish shall be made from the best quality Damar or other gums, digested cold in a suitable solvent. It shall be thoroughly settled.

III.—PROPERTIES AND TESTS.

The varnish shall be clear and free from suspended matter, and shall contain no rosin, mineral matter or other adulterants.

APPENDIX "F."—PAPER VARNISH—*continued.*

It shall conform to the following requirements :—

Colour.—Water white.

Drying.—Shall set to touch in not more than 30 minutes, and shall dry hard and elastic when maintained at 70° F. in dust-free atmosphere.

Toughness.—Film on metal must stand rapid bending over a rod 3 mm. ($\frac{1}{8}$ inch) in diameter.

Working Properties.—Varnish must have good brushing, flowing, covering, and levelling properties.

IV.—SAMPLING AND TESTING.

One unopened package shall be taken at random from each delivery.

The varnish shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Paint Materials."

SPIRIT VARNISH.—SPECIFICATION D.8.—*Item No. 1511.*

I.—SCOPE.

This Specification covers varnishes known as Spirit Varnishes, both Brown and White.

II.—MANUFACTURES.

Spirit Varnish shall be made from hard varnish gums, digested cold in methylated spirits.

The order shall state whether White or Brown Varnish is required.

III.—PROPERTIES AND TESTS.

The varnish shall be clear and of satisfactory colour. It shall be free from suspended matter or sediment, and shall contain no rosin or other adulterants.

The varnish shall conform to the following requirements :—

Methylated Spirits.—Shall be at least 64 overproof.

Drying Test.—Shall set to touch in not more than 30 minutes, when maintained at 70° F. in a dust-free atmosphere.

IV.—TESTING AND SAMPLING.

One unopened package shall be taken at random from each delivery.

The varnish shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Paint Materials."

KNOTTING VARNISH.—SPECIFICATION D.9.—*Item No. 1512.*

I.—SCOPE.

This Specification covers the Spirit Varnish known as Knotting Varnish.

II.—MANUFACTURE.

Knotting Varnish shall be made of pure shellac, digested cold in methylated spirits.

III.—PROPERTIES AND TESTS.

The varnish shall be clear and free from suspended matter and sediment. It shall contain no added rosin or other adulterants.

The varnish shall conform to the following requirements :—

Methylated Spirits.—Shall be at least 64 overproof.

Drying Test.—Shall dry to touch in not more than 20 minutes when maintained at 70° F. in dust-free atmosphere.

IV.—SAMPLING AND TESTING.

One unopened package shall be taken at random from each delivery.

The varnish shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Paint Materials."

FRENCH POLISH.—*Item No. 1513.*

To consist of pure orange shellac and 64 O.P. methylated spirits.

FRENCH POLISH, WHITE.—*Item No. 1514.*

To consist of finest bleached shellac and 64 O.P. methylated spirits.

SPECIFICATION FOR BLACK AIRDRYING VARNISH.—*Item No. 1515.*

General Particulars.—The varnish will be used for general work during the manufacture and repair of electrical machines and for the treatment of coils on parts too large to be baked.

Quality.—It shall be of the highest quality and manufactured from the best grades of varnish gums or asphaltum, pure linseed or tung oil, incorporated with suitable driers and thinners.

Properties and Tests.—It shall possess high penetrative power and yield a good body when applied with a brush or with a spray. The dried varnish should have a good mechanical strength and long life under unfavorable atmospheric conditions.

Drying Time and Flexibility.—A film of varnish on Japanese paper of 1 mil thickness shall set to touch in from three to six hours, at a temperature of 20° C. When dry the film shall remain flexible and may be bent back on itself without cracking.

APPENDIX "F."—BLACK AIRDRYING VARNISH—*continued.*

Dielectric Strength.—A film of varnish covering Japanese paper 1 mil to a thickness of 4 to 5 mils shall have when dry a dielectric strength of not less than 1,000 volts per mil.

Resistivity.—The varnish applied shall have a high resistance to the effects of water, oil, acids, and alkalies; and shall contain no free acids.

The Tenderer shall supply the following information :—

Specific gravity
Recommended thinning medium
Percentage of thinning medium
Dielectric strength
Drying period at 20° C.

Size of Containers.—Delivery shall be made in either four (4) or one (1) gallon containers as required.

Samples.—The Tenderer shall submit a sample of not less than half a gallon of the varnish which he proposes to supply. The Corporation may test sample selected at random to ascertain to what extent the material supplied complies with this Specification or with the Tenderer's Specification.

VARNISH, INSULATING, QUICK AIRDRYING CLEAR.—TO SPECIFICATION.—*Item No. 1516.*

General Particulars.—The varnish shall be suitable for the treatment of coils, of oil, immersed transformers and other electric apparatus which are not capable of being baked.

Quality.—It shall be of the highest quality and be manufactured from the best varnish gums and pure linseed oil together with suitable driers and thinners.

Properties and Tests.—It shall possess high penetrative power and yield a good body when applied with a brush or spray.

Drying Time and Flexibility.—A film of varnish on Japanese paper 1 mil in thickness shall set to the touch in from four to eight hours at a temperature of 20° C. When dry the film shall remain flexible and may be bent back on itself without cracking.

Dielectric Strength.—A film of varnish covering Japanese paper 1 mil in thickness to a total thickness of 4 to 5 mils shall have, when dry, a dielectric strength of not less than 1,000 volts per mil.

Resistivity.—The varnish shall have a high resistance to the effects of water, oil, acids, and alkalies and shall contain no free acid. Its resistance to the effect of hot transformer oil shall be determined by the length of time required for a film of varnish on a treated coil immersed in transformer oil at a temperature of 115° to 120° C. to show signs of sludging and disintegrating.

INFORMATION TO BE SUPPLIED.

The Tenderer shall supply the following information :—

Specific gravity
Recommended thinning medium
Percentage of thinning medium
Dielectric strength
Drying time at 20° C.

Size of Container.—The delivery shall be made in one (1) gallon containers.

Samples.—The Tenderer shall submit a sample of not less than half a gallon of the varnish which he proposes to supply. The Corporation may test samples selected at random to ascertain to what extent the material complies with this Specification or with the Tenderer's Specification.

INSULATING STOVING BLACK.—TO SPECIFICATION (IN 4-GALLON TINS):—*Item No. 1517.*

General Particulars.—The varnish must be entirely suitable for the impregnation and insulation of armature and field coils of all types of motors, including traction motors with operating voltages up to 1,500 volts.

Quality.—It shall be of the highest baking quality and manufactured from the best grades of varnish gums or asphaltum, pure linseed oil or tung oil, incorporated with suitable driers and thinners.

Properties.—It shall possess penetrative power when applied with a brush or in conjunction with a vacuum impregnating plant. The varnish shall have a long life when maintained at an operating temperature of 90° C., and shall exhibit no sign of softening at temperatures under 110° C.

Drying Time.—A film of varnish on Japanese paper of 1 mil thickness shall set to the touch in from six to fifteen hours when stoved at a temperature of 90° to 95° C. When dry the film shall remain flexible and may be bent back on itself without cracking.

Dielectric Strength.—A film of varnish when covering Japanese paper 1 mil thick to a thickness of 4 to 5 mils shall have when dry a dielectric strength of not less than 1,000 volts per mil.

Resistivity.—The varnish supplied shall have a high resistance to the effects of water, oils, acid and alkalies, and shall contain no free acid.

The Tenderer shall furnish the following information :—

Specific gravity
Percentage of thinning medium
Recommended thinning medium
Dielectric strength
Baking period at 90° C.
Life when baked continuously at 90 degrees C.

APPENDIX "F."—INSULATING STOVING BLACK—*continued.*

Size of Containers.—Delivery shall be made in four (4) gallon containers.

Samples.—The Tenderer shall submit a sample of not less than half a gallon of the varnish which he proposes to supply.

The Corporation may test samples selected at random to ascertain to what extent the material supplied complies with this Specification or with the Tenderer's Specification.

Samples.—The Tenderer shall submit a sample of not less than half a gallon of the varnish which he proposes to supply. The Corporation may test samples selected at random to ascertain to what extent the material supplied complies with this Specification or with the Contractor's Specification and samples.

APPENDIX "G."

ILLUMINATING, POWER AND FUEL OILS.

KEROSENE—ILLUMINATING, POWER AND FUEL.—SPECIFICATION N.1.—*Items 6050 and 6056.*

Scope.—This Specification covers the grade of kerosene required for ordinary Illuminating Purposes and also as a Fuel for Kerosene Engines.

Manufacture.—The kerosene shall be a pure petroleum product.

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

Flash Point (Closed Test).—Shall not be less than 105° F.

Colour.—Shall be water white.

Fractional Distillations.—The residue at 300° C. shall not be more than 6 per cent. by vol.

Cloud Test.—The kerosene shall not show a cloud at 5° F.

Flock Test.—The kerosene shall show no sediment when heated at 250° F. for six hours.

Specific Gravity.—The Tenderer shall submit with his tender a statement showing the Specific Gravity (at 15.5° C./15.5° C.) of the oil offered, and the sample and future deliveries (in the event of the tender being accepted) shall agree therewith within the limits of ± 0.5 per cent.

Burning Test.—The kerosene shall burn freely and steadily in a lamp for a period of eighteen hours without marked diminution of intensity, and without smoking or forming "ears" or "toadstools" on the wick. The chimney must be only slightly clouded or stained at the end of the test.

Special Test.—The kerosene submitted under this Specification will be subjected to tests to determine its Sulphur Content, and consideration will be given to the results obtained in deciding the oil to be accepted.

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 one (1) 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 the "Circular of the Australian Railways—Testing of Lubricating, Illuminating, and Fuel Oils, &c."

KEROSENE—LONG-TIME BURNING OIL.—SPECIFICATION N.2.—*Items 6051 and 6052.*

Scope.—This Specification covers the grade required for use in Signal Lamps and other places where a long-time burning oil is required.

Manufacture.—The kerosene shall be a pure petroleum product.

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

Flash Point (Closed Test).—Shall not be less than 105° F.

Colour.—Shall be water white.

Fractional Distillation.—The residue at 300° C. shall not be more than 4 per cent.

Cloud Test.—The kerosene shall not show a cloud at 0° F.

Flock Test.—The kerosene shall show no sediment when heated at 250° F. for six hours.

Specific Gravity.—The Tenderer shall submit with his tender a statement showing the Specific Gravity (at 15.5° C./15.5° C.) of the oil offered, and the sample and future deliveries (in the event of the tender being accepted) must agree therewith within the limits of ± 0.5 per cent.

Burning Test.—The kerosene shall burn freely and steadily for 120 hours or until all the oil is consumed, without marked diminution in intensity. The wick shall not be readjusted after the first hour of the test.

Special Test.—The kerosene submitted under this Specification will be subjected to tests to determine the Sulphur Content, and consideration will be given to the results obtained in deciding the oil to be accepted.

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 one (1) per cent. of 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."

APPENDIX "G"—continued.

KEROSENE—300° HIGH TEST.—SPECIFICATION N.3.—Item 6053.

Scope.—This Specification covers the grade of kerosene required for Illuminating Purposes where a high-flash illuminant is required.

Manufacture.—The kerosene shall be a pure petroleum product.

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

Flash Point (Closed Test).—Shall not be less than 250° F.

Colour.—Shall be water white.

Cloud Test.—The kerosene shall show no cloud at 32° F.

Flock Test.—The kerosene shall show no sediment when heated at 450° F. for fifteen minutes.

Specific Gravity.—The Tenderer shall submit with his tender a statement showing the Specific Gravity (at 15·5° C./15·5° C.) of the oil offered, and the sample and future deliveries (in the event of the tender being accepted) must agree therewith within the limits of ± 0·5 per cent.

Burning Test.—The kerosene shall burn continuously, without readjustment of the wick, till all the oil is consumed. The flame shall remain symmetrical and free from smoke throughout, and there shall be no appreciable hard incrustation on the wick, nor any marked diminution of intensity.

Special Test.—The kerosene submitted under this Specification will be subjected to tests to determine the Sulphur Content, and consideration will be given to the results obtained in deciding the oil to be accepted.

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 one (1) 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."

MOTOR SPIRIT.—SPECIFICATION N.4.—Items 6057 to 6069a.

Scope.—This Specification covers the grade of motor spirit required for use in Internal Combustion Engines.

Manufacture.—The motor spirit shall be a pure petroleum or other approved product.

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

Colour.—Shall be water white.

Detonation.—The Motor Spirit shall be tested to determine its tendency to detonate, and its non-detonating value will be considered the most important factor in deciding its suitability.

Fractional Distillation—	Not less than
	%
Up to 75° Cent.	5·0
Up to 115° Cent.	50·0
Not higher than 200° Cent.	End point

Residue.—Shall not show acid reaction.

Doctor Test.—The Doctor test shall be negative.

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

Gumming Residue.—When evaporated to dryness in a porcelain dish there shall be no weighable amount of gummy matter.

Acid Heat Test.—The motor spirit will be tested for rise of temperature when mixed with sulphuric acid.

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 one (1) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

Methods 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 BENZINE.—Item 6072.

The Benzine shall be a pure petroleum product of the very best quality for the purpose, water-white in colour, free from mineral, acid, or alkali water, suspended matter, and in other respects shall comply with the conditions mentioned hereunder—

Fractional Distillation—	Not less than
	%
Up to 100° Cent.	20
Up to 150° Cent.	60
Up to 200° Cent.	90

Residue.—Shall not show acid reaction.

When evaporated to dryness in a porcelain dish, there shall be no weighable amount of gummy matter.

The Doctor test shall be negative.

A copper strip shall not appear discoloured when heated in the Benzine to 150° Fahr.

The Benzine offered will be tested for unsaturated hydrocarbons, and consideration will be given to the results obtained in deciding the Benzine to be accepted.

The Benzine will be tested for rise of temperature when mixed with Sulphuric Acid.

APPENDIX "G"—*continued.*FUEL OIL.—SPECIFICATION O.I.—*Items 6073 to 6076.*

Scope.—This Specification covers the grade of petroleum product used for Fuel Purposes, and also coal tar oil and mixtures of coal tar oil and coal tar.

Properties and Tests.—The oil shall be free from grit, acid, fibrous or other matter, and in other respects shall comply with the conditions mentioned hereunder :—

Flash Point (Closed Test).—Shall not be less than 150° F.
 Calorific Value, Gross B.T.U. per lb.
 Petroleum Oil.—Not less than 18,000.
 Coal Tar Oil or Mixtures.—Not less than 16,000.
 Water and Sediment.—Not greater than 1 per cent.

Sulphur.—When tested in the bomb calorimeter the oil must be reasonably low in sulphur.

The oil must flow freely from the containers or receptacles at 60° F.

Other things being satisfactory, the choice of oil will be largely determined by low sulphur content and high calorific value.

Excess of water and sediment over the 1·0 per cent. specified may either be subtracted from the gross volume of oil to be paid for, or may be regarded as a contributory reason for rejection.

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least ten (10) per cent. of the containers.

If Fuel Oil be delivered to the Corporation in bulk, each delivery will be sampled on the following basis :—A composite sample made up of samples drawn from every 1,000 gallons or part thereof of each delivery shall be accepted as accurately representing the quality of the delivery.

A second sample shall be taken from the bottom of the container or containers with a " thief " having a valve in the lower end. The thief, with valve open, shall be lowered gradually into the container, and the valve closed at the instant of touching the bottom. The sample thus obtained shall be tested for water and sediment.

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

OIL FOR THE MANUFACTURE OF PINTSCH GAS.—SPECIFICATION O.I.—*Item 6077.*

Scope.—This Specification covers the grade of petroleum product used for the manufacture of Pintsch Gas.

Properties and Tests.—This oil shall be free from grit, acid, water, and fibrous or other deleterious matter and in other respects shall comply with the conditions mentioned hereunder :—

	Maximum.	Minimum.
Specific Gravity at 60 degrees Fahr.	·895	·910
Flash, open, degrees Fahr.	174·0	220·0
" Fire, degrees Fahr.	230·0	250·0
Boiling Point, degrees Fahr.	400·0	450·0
Sulphur, per cent. . . . .	..	1·200
Viscosity. Dynes per Sq. Cm. at—		
70 degrees Fahr.	·580	·725
100 degrees Fahr.	·210	·300
140 degrees Fahr.	·103	·120
Carbon	As low as possible
Distillation	60 per cent. shall distil over below 720° Fahr.

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